



284 Sheffield Street, Mountainside, NJ 7092, Phone: 908 789 8900, Fax: 908 789 8922

## **CASE NARRATIVE**

### **G Environmental**

**Project Name: Diamond**

**Project # N/A**

**Order ID # Q3739**

**Test Name: Mercury, Metals ICP-TAL, Hexavalent Chromium**

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

4 Solid samples were received on 11/26/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, Hexavalent Chromium. This data package contains results for Mercury(7471B), Metals ICP-TAL(6010D), Hexavalent Chromium(7196A).

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

Mercury, Metals ICP-TAL : The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

Wetchem : The analysis of Hexavalent Chromium was based on method 7196A and extraction was done based on method 8015B.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The MS recoveries met the requirements for all compounds except following Mercury, Metals ICP-TAL : The Matrix Spike (WC1MS) analysis met criteria for all compounds except for Antimony, Potassium, Vanadium due to Chemical Interference during Digestion Process

The MSD recoveries met the requirements for all compounds except following Mercury, Metals ICP-TAL : The Matrix Spike Duplicate (WC1MSD) analysis met criteria for all compounds except for Antimony, Potassium due to Chemical Interference during Digestion Process.

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 met the requirements.

Mercury, Metals ICP-TAL : Sample GSB1B was diluted due to high concentrations for Chromium, Mercury.



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Sample GSB2B was diluted due to high concentrations for Mercury.

Wetchem : Sample GSB1A was diluted due to high concentrations for Hexavalent Chromium & Sample GSB1B was diluted due to high concentrations for Hexavalent Chromium.

The Duplicate analysis met criteria for all samples.  
The Serial Dilution met the acceptable requirements.

**E. Additional Comments:**

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

Mercury, Metals ICP-TAL : The Post Digest Spike (WC1A) analysis met criteria for all compounds except for Antimony, Potassium, Vanadium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

All samples and QC samples have very greenish type of digested sample, looks very highly unknown contaminations and may be some type of organic interferences which can cause instrument failure for QC, due to suppression effect and could cause sample introduction issue and carryover problem. So straight 5X dilution analyzed and reported for samples.

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