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## **CASE NARRATIVE**

### **Union Paving & Construction Company**

**Project Name: 190 Park Ave Hanover Twp NJ - PO 2556-001**

**Project # N/A**

**Order ID # Q2393**

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

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

12 Solid samples were received on 06/23/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Cyanide, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, pH, SVOC-TCL BNA -20 and VOC-TCL VOA-10. This data package contains results for Mercury, Metals ICP-TAL.

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

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.

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

The Holding Times were met for all analysis.

The Blank Spike met requirements for all parameters.

The Duplicate (PARK AVE -6DUP) analysis met criteria for all parameters except for Antimony, Arsenic, Calcium, Chromium, Copper, Iron, Manganese, Nickel, Selenium and Silver due to sample matrix interference. The Duplicate (PARK AVE -6MSD) analysis met criteria for all parameters except for Calcium and Manganese due to matrix unknown interferences during digestion and very oily and viscous matrix of sample.

The Matrix Spike (PARK AVE -6MS) analysis met criteria for all parameters except for Antimony, Beryllium, Chromium, Copper, Nickel, Selenium, Silver, Sodium, Vanadium and Zinc due to matrix unknown interferences during digestion and very oily and viscous matrix of sample.

The Matrix Spike Duplicate (PARK AVE -6MSD) analysis met criteria for all parameters except for Antimony, Chromium, Cobalt, Copper, Nickel, Potassium, Selenium, Silver, Sodium, Vanadium and Zinc due to matrix unknown interferences during digestion and very oily and viscous matrix of sample.

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

The Calibration met the requirements.

The Serial Dilution (PARK AVE -6L) met criteria for all parameters except for Aluminum, Calcium, Chromium, Copper, Iron, Magnesium and Manganese due to sample matrix interference.



**E. Additional Comments:**

The Post Digest Spike (PARK AVE -6A) analysis met criteria for all parameters except for Antimony, Beryllium, Chromium, Copper, Selenium, Silver, Sodium, Vanadium and Zinc due to unknown chemical interferences of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

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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\_\_\_\_\_