



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

**Alliance Technical Group, LLC - Newark**

**Project Name: NJ Soil PT**

**Project # N/A**

**Order ID # Q1872**

**Test Name: SVOCMS Group1**

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

24 Solid samples were received on 04/24/2025.

1 Solid sample was received on 04/28/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, TKN, TOC, TS and VOCMS Group1. This data package contains results for SVOCMS Group1.

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

The samples were analyzed on instrument BNA\_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA\_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group1 was based on method 8270E 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 PB167904BS [2,4 and6-Tribromophenol - 117%] is marginally biased high, Therefor no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

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 for {PB167904BS} with File ID: BP024570.D met requirements for all samples except for 2,4,5-Trichlorophenol[100%], 4-Bromophenyl-phenylether[106%], Benzidine[112%], Hexachlorobenzene[106%], Hexachlorobutadiene[100%], Hexachlorocyclopentadiene[185%] and Pentachlorophenol[106%]. Recovery of a very few compounds are slightly biased high but their hit is not present in any associated samples, Therefore no further corrective action was taken.

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

The % RSD is greater than 20% in the Initial Calibration (8270-BM042825.M) for 2,4-Dinitrophenol and 4-Nitrophenol these compound are passing on Linear Regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BP041425.M) for Benzidine, only QC sample run under this Initial Calibration.

The % RSD is greater than 20% in the Initial Calibration (8270-BP051325.M) for Benzoic acid, 2,4-Dinitrophenol, 4-Nitrophenol these compound are passing on Linear Regression.

The Continuous Calibration File ID BP024568.D met the requirements except for 2,4,6-Tribromophenol. Associated samples have no hit for this compound; Therefore no further corrective action was taken.

The Tuning criteria met requirements.

Sample HW0425-PT-BNA-SOIL was diluted due to high concentration.

**E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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