



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

CASE NARRATIVE

G Environmental

Project Name: Newport

Project # N/A

Order ID # Q3277

Test Name: VOC-TCLVOA-10,EPH_NF,Gasoline Range

Organics,PCB,Mercury,Metals ICP-TAL,TCLP ICP Metals,TCLP

Mercury,Corrosivity,Ignitability,Paint Filter,pH,Reactive Cyanide,Reactive Sulfide

A. Number of Samples and Date of Receipt:

2 Solid samples were received on 10/02/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10,EPH_NF,Gasoline Range Organics,PCB,Mercury,Metals ICP-TAL,TCLP ICP Metals,TCLP Mercury,Corrosivity,Ignitability,Paint Filter,pH,Reactive Cyanide,Reactive Sulfide. This data package contains results for VOC-TCLVOA-10(8260D),EPH_NF(NJEPH),Gasoline Range Organics(8015D),PCB(8082A),Mercury(7471B),Metals ICP-TAL(6010D),TCLP ICP Metals(6010D),TCLP Mercury(7470A),Corrosivity(9045D),Ignitability(1030),Paint Filter(9095B),pH(9045D),Reactive Cyanide(9012B),Reactive Sulfide(9034).

C. Analytical Techniques:

VOC-TCLVOA-10 : The analysis performed on instrument MSVOA_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

PCB : The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

EPH_NF : The analysis were performed on instrument FID_E. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 10224.The analysis of EPH_NFs was based on method NJEPH and extraction was done based on method 3541.

Gasoline Range Organics : The analysis performed on instrument FID_B were done using GC column RTX502.2 which is 60 meters, 0.53mm ID, 3.0 um df, cat#10909.The analysis of Gasoline Range Organics was based on method 8015D.



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

TCLP ICP Metals,TCLP Mercury : The analysis of TCLP ICP Metals was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of TCLP Mercury was based on method 7470A and TCLP extraction method was 1311.

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 Corrosivity,Ignitability,Paint Filter,pH,Reactive Cyanide,Reactive Sulfide was based on method 1030,9012B,9034,9045D,9095B and extraction was done based on method 8015B.

D. QA/ QC Samples:

The Holding Times were met for all analysis except following Wetchem : WC1 of pH and for WC1 of Corrosivity as samples were receive out of holding time.

The Surrogate recoveries were met for all analysis.

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 except following

EPH_NF : The MS {Q3262-08MS} with File ID: FE056170.D recoveries met the requirements for all compounds except for Aliphatic C28-C40[26.%], Aliphatic C9-C28[-726%] due to matrix interference.

Mercury,Metals ICP-TAL : The Matrix Spike (72-11929MS) analysis met criteria for all compounds except for Antimony, Cobalt and Copper due to Chemical Interference during Digestion process.

The MSD recoveries met the requirements for all compounds except following

EPH_NF : The MSD {Q3262-08MSD} with File ID: FE056171.D recoveries met the requirements for all compounds except for Aliphatic C28-C40[24%], Aliphatic C9-C28[-819%] due to matrix interference..

Mercury,Metals ICP-TAL : The Matrix Spike Duplicate (72-11929MSD) analysis met criteria for all compounds except for Antimony, Cobalt, Copper and Vanadium due to Chemical Interference during Digestion process.

The RPD recoveries met criteria.

The Blank Spike met requirements for all compounds. The Blank Spike Duplicate met requirements for all compounds.

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

The Initial Calibration met the requirements except following

VOC-TCLVOA-10 : The %RSD is greater than 20% in the Initial Calibration method (82W100125S.M) for Methylene chloride passing on Linear regression.



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

The Continuous Calibration met the requirements except following
PCB : The Continuous Calibration File ID PO114249.D met the requirements except for Aroclor-1016(Peak-02),Aroclor-1016(Peak-05),however it is passed in 2nd column therefore no corrective action was taken. And for Aroclor-1260(Peak-04),Aroclor-1260(Peak-05) is failing in 1st column, Failing high but associated samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID PO114264.D met the requirements except for Decachlorobiphenyl is failing in 1st column, however it is passed in 2nd column therefore no corrective action was taken.

The Tuning criteria met requirements.

The Duplicate analysis met criteria for all compounds except following
Mercury, Metals ICP-TAL : The Duplicate (72-11929DUP) analysis met criteria for all compounds except for Cadmium due to unknown sample matrix interference.

The Serial Dilution met criteria for all compounds except following
Mercury, Metals ICP-TAL : The Serial Dilution (72-11929L) met criteria for all compounds except for Calcium, Chromium, Copper, Magnesium, Manganese and Zinc due to sample matrix interference.

E. Additional Comments:

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

VOC-TCLVOA-10 : Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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_____