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

CASE NARRATIVE

Roman E&G Corp
Project Name: MCUA - New Brunswick
Project # N/A
Order ID # Q3604
Test Name: TCLP VOA,VOC-TCLVOA-10,SVOC-TCL BNA -20,TCLP BNA,EPH_NF,PCB,TCLP Herbicide,TCLP Pesticide,TCLP ICP Metals,TCLP Mercury,Corrosivity,Ignitability,Reactive Cyanide,Reactive Sulfide

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 11/10/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: TCLP VOA,VOC-TCLVOA-10,SVOC-TCL BNA -20,TCLP BNA,EPH_NF,PCB,TCLP Herbicide,TCLP Pesticide,TCLP ICP Metals,TCLP Mercury,Corrosivity,Ignitability,Reactive Cyanide,Reactive Sulfide. This data package contains results for TCLP VOA(8260D),VOC-TCLVOA-10(8260D),SVOC-TCL BNA -20(8270E),TCLP BNA(8270E),EPH_NF(NJEPH),PCB(8082A),TCLP Herbicide(8151A),TCLP Pesticide(8081B),TCLP ICP Metals(6010D),TCLP Mercury(7470A),Corrosivity(9045D),Ignitability(1030),Reactive Cyanide(9012B),Reactive Sulfide(9034).

C. Analytical Techniques:
TCLP VOA : The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

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.

TCLP BNA : The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

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SVOC-TCL BNA -20 : The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The 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-GGA. The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3541.

PCB : The analyses were performed on instrument GCECD_P. 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 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.

TCLP Pesticide : 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 TCLP Pesticides was based on method 8081B and extraction was done based on method 3510 and TCLP extraction method was 1311.

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 were performed on instrument FID_G. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df, catalog 13302.The analysis of EPH_NFs was based on method NJEPH and extraction was done based on method 3541.

TCLP Herbicide : The analysis was performed on instrument ECD_S. The front column is RTX-CLPesticides which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 11139. The rear column is RTX-CLPesticides2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 11324. The analysis of TCLP Herbicides was based on method 8151A and extraction was done based on method 3510 and TCLP extraction method was 1311.

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

Wetchem : The analysis of Corrosivity,Ignitability,Reactive Cyanide,Reactive Sulfide was based on method 1030,9012B,9034,9045D and extraction was done based on method 8015B.

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D. QA/ QC Samples:

The Holding Times were met for all analysis except following VOC-TCLVOA-10 : The Holding Times were met for all analysis except for S-1 and S-2 as activated later.

The Holding Times were met for all analysis except following SVOC-TCL BNA -20 : The Holding Times were met for all analysis except for S-1 and S-2 as activated later.

The Holding Times were met for all analysis except following Wetchem : S-1 of Corrosivity and for S-2 of Corrosivity as samples were receive out of holding time.

The Surrogate recoveries were met for all analysis except following VOC-TCLVOA-10 : S-1 [1,2-Dichloroethane-d4 - 136%], S-2 [1,2-Dichloroethane-d4 - 141%] these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Surrogate recoveries were met for all analysis except following TCLP Herbicide : PB170516BL [2,4-DCAA(2)48%], PB170493TB [2,4-DCAA(2)48%]S-1MSD [2,4-DCAA(1)67%], S-2 [2 and4-DCAA(1)68%]. These compounds did not meet the NJDKQP criteria but met the in-house criteria.

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 SVOC-TCL BNA -20 : The MS {Q3719-10MS} with File ID: BP026201.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[63%], 3-Nitroaniline[58%] and 4-Chloroaniline[40%]. This compound did not meet the NJDKQP criteria but met the in-house criteria.

TCLP Herbicide : The MS {Q3604-01MS} with File ID: PS032388.D recoveries met the requirements for all compounds except for [2,4,5-TP(Silvex)(1)51% - 2,4,5-TP(Silvex)(2)50%] and [2,4-D(1)45% - 2,4-D(2)47%]. These compounds did not meet the NJDKQP criteria and in-house criteria, due to matrix interference.

TCLP ICP Metals,TCLP Mercury : The Matrix Spike (S-2MS) analysis met criteria for all compounds except for Barium due to Chemical Interference during Digestion Process.

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The MSD recoveries met the requirements for all compounds except following
SVOC-TCL BNA -20 : The MSD {Q3719-10MSD} with File ID: BP026202.D recoveries met the requirements for all compounds except for 3,3-Dichlorobenzidine[68%], 3-Nitroaniline[53%] and 4-Chloroaniline[42%]. This compound did not meet the NJDKQP criteria but met the in-house criteria.

TCLP Herbicide : The MSD {Q3604-01MSD} with File ID: PS032389.D recoveries met the requirements for all compounds except for [2,4,5-TP(Silvex)(1)51%] and [2,4-D(1)45% - 2,4-D(2)56%]. These compounds did not meet the NJDKQP criteria and in-house criteria, due to matrix interference.

TCLP ICP Metals,TCLP Mercury : The Matrix Spike Duplicate (S-2MSD) analysis met criteria for all compounds except for Barium due to Chemical Interference during Digestion Process.

The RPD were met for all analysis except following
TCLP Herbicide : The RPD for {Q3604-01MSD} with File ID: PS032389.D met criteria except for [2,4,5-TP(Silvex)(2)-41%]. Due to difference in MS and MSD concentrations.

The Blank Spike met requirements for all compounds except following
SVOC-TCL BNA -20 : The Blank Spike for {PB170735BS} with File ID: BF144360.D met requirements for all compounds except for 3-Nitroaniline[65%], 4-Chloroaniline[51%]. This compound did not meet the NJDKQP criteria but met the in-house criteria.

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
SVOC-TCL BNA -20 : The %RSD is greater than 20% in the Method 8270-BF110525.M for Hexachlorocyclopentadiene is passing on Quadratic regression.

The Continuous Calibration met the requirements except following
VOC-TCLVOA-10 : The Continuous Calibration File ID VW032536.D met the requirements except for 1,1,2-Trichlorotrifluoroethane,1,2-Dichloroethane,Carbon Tetrachloride and Methyl Acetate are failing high but no positive hit in associate sample therefore no corrective action taken.

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TCLP BNA : The Continuous Calibration File ID BF144230.D met the requirements except for Pyridine. Failing high but associated samples have no positive hit for this compound therefore noc orrective action was taken.

The Tuning criteria met requirements.

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.
The temperature of the samples at the time of receipt was 15.7°C.

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.

TCLP ICP Metals,TCLP Mercury : The Post Digest Spike (S-2A) analysis met criteria for all compounds except for Barium 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.

TCLP VOA : 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_____