



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Roux Associates, Inc.

Project Name: 2968.0006J004_Duke Bayonne

Project # N/A

Chemtech Project # N4490

Test Name: Diesel Range Organics

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 09/01/2022.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: ASTM Ammonia, ASTM COD, ASTM Leach Extraction, ASTM Oil and Grease, ASTM TS, Corrosivity, Cyanide, Diesel Range Organics, EPH, Gasoline Range Organics, Hexavalent Chromium, Ignitability, Mercury, Metals Group4, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Metals+Cu+Ni+Zn, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, TCLP Metals Group1, TS, TVS, VOC-BTEX and VOC-TCLVOA-10. This data package contains results for Diesel Range Organics.

C. Analytical Techniques:

The analysis was performed on instrument FID_F. The column is RXI-1MS which is 20 meters, 0.18mm ID, 0.18 um df. The analysis of Diesel Range Organics was based on method 8015D 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

WC-14-A-SP-GR [Tetracosane-d50 - 0%],

WC-14-B-SP-GR [Tetracosane-d50 - 0%] and

WC-14-B-SP-GRMS [Tetracosane-d50 - 13%].

The Retention Times were acceptable for all samples except for WC-14-A-SP-GR and WC-14-B-SP-GR.

The MS {N4490-09MS} with File ID: FF011367.D recoveries met the requirements for all compounds except for DRO[652%] due to matrix interference.

The MSD {N4490-09MSD} with File ID: FF011368.D recoveries met the acceptable requirements except for DRO[972%] due to matrix interference.

The RPD for {N4490-09MSD} with File ID: FF011368.D met criteria except for DRO[39.4%] due to matrix interference.

The Blank Spike met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.



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Samples WC-14-A-SP-GR, WC-14-B-SP-GR, WC-14-B-SP-GRMS and WC-14-B-SP-GRMSD were diluted due to bad matrices.

Samples WC-14-A-SP-GR and WC-14-B-SP-GR were diluted due to high concentrations.

E. Additional Comments:

As per special requirement for this project form-1 are reported in mg/kg.

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

Samples WC-14-A-SP-GR & WC-14-B-SP-GR are directly analyzed with 10X dilution due to samples are very bad matrix.

Samples WC-14-A-SP-GR & WC-14-B-SP-GR original run reported as screening Data.

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_____