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CASE NARRATIVE

Spectra East Inc.

Project Name: Outfall 001 - Orangetown Dis Permit 2025

Project # N/A

Order ID # Q3551

**Test Name: VOCMS Group1,SVOCMS Group1,PCB,PESTICIDE Group1,
Mercury, Metals ICP-Group1,Ammonia,Anions Group1,BOD5,COD, Cyanide,
Cyanide-Amenable,Field pH,Field Temperature,Oil and Grease,Phenolics,TSS**

A. Number of Samples and Date of Receipt:

4 Water samples were received on 11/05/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1,SVOCMS Group1,PCB,PESTICIDE Group1,Mercury,Metals ICP-Group1,Ammonia,Anions Group1,BOD5,COD,Cyanide,Cyanide-Amenable,Field pH,Field Temperature,Oil and Grease,Phenolics,TSS. This data package contains results for VOCMS Group1(624.1),SVOCMS Group1(625.1),PCB(8082A),PESTICIDE Group1(608.3),Mercury(245.1),Metals ICP-Group1(200.7),Ammonia(SM4500-NH3), Anions Group1(300.0),BOD5(SM5210 B),COD(SM5220 D),Cyanide(SM4500-CN C,E),Cyanide-Amenable(SM4500-CN B,G Cyanide-Amenable),Field pH(9045D),Field Temperature(SM2550-B),Oil and Grease(1664A),Phenolics(420.1),TSS(SM2540 D).

C. Analytical Techniques:

VOCMS Group1 : The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group1 was based on method 624.1.

SVOCMS Group1 : The samples were analyzed on instrument BNA_G 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 SVOCMS Group1 was based on method 625.1 and extraction was done based on method 3510.

PESTICIDE Group1 : 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 PESTICIDE Group1s was based on method 608.3 and extraction was done based on method 3510.



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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 μ m df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 μ m; Catalogue # 7HM-G017-11. The analysis of PCBs was based on method 8082A and extraction was done based on method 3510.

Mercury, Metals ICP-Group1 : The analysis and digestion of Metals ICP-Group1 was based on 200.7 and The analysis and digestion of Mercury was based on 245.1.

Wetchem : The analysis of Oil and Grease was based on method 1664A, The analysis of Anions Group1 was based on method 300.0, The analysis of Phenolics was based on method 420.1, The analysis of Field pH was based on method 9045D, The analysis of TSS was based on method SM2540 D, The analysis of Field Temperature was based on method SM2550-B, The analysis of Cyanide-Amenable was based on method SM4500-CN B, G Cyanide-Amenable, The analysis of Cyanide was based on method SM4500-CN C, E, The analysis of Ammonia was based on method SM4500-NH₃, The analysis of BOD₅ was based on method SM5210 B and The analysis of COD was based on method SM5220 D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except following

PESTICIDE Group1 : MANHOLE [Tetrachloro-m-xylene(1)24%, Tetrachloro-m-xylene(2)32%], MANHOLERE [Tetrachloro-m-xylene(1)10% and Tetrachloro-m-xylene(2)27%]. Affected samples reanalyzed to confirm to results, Original and reanalysis both are reported.

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

Mercury, Metals ICP-Group1 : The Matrix Spike (CompMS) analysis met criteria for all compounds except for Silver due to Chemical Interference during Digestion process.

The MSD recoveries met the requirements for all compounds except following

Mercury, Metals ICP-Group1 : The Matrix Spike Duplicate (CompMSD) analysis met criteria for all compounds except for Silver 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.



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The Continuous Calibration met the requirements except following SVOCMS Group1 : The Continuous Calibration File ID BG064713.D met the requirements except for 2,4,6-Tribromophenol and Nitrobenzene-d5, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

Wetchem : Sample MANHOLE was diluted due to high concentrations for Ammonia as N.

The Duplicate analysis met criteria for all compounds except following Mercury, Metals ICP-Group1 : The Duplicate (CompDUP) analysis met criteria for all compounds except for Nickel due to sample matrix interference.

The Duplicate analysis met criteria for all compounds except following Wetchem : The Duplicate (DSN003DUP) analysis met criteria for all compounds except for Phenolics due to the Results are below Reporting limit.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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

Ammonia, Anions Group1, BOD5, COD, Cyanide, Cyanide-Amenable, Field pH, Field Temperature, Oil and Grease, Phenolics, TSS : Sample Q3551-04 was analyzed straight Dilution for COD parameter Because the original samples were reading over range, only 10X has been reported.

PESTICIDE Group1 : As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead.

VOCMS Group1 : "As per method, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead."

Trip Blank was not provided with this set of samples.



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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_____