CASE NARRATIVE

Lockwood, Kessler & Bartlett, Inc.
Project Name: Syosset Landfill 2025
Project # N/A
Order ID # Q3202
Test Name: VOCMS Group1,Dissolved Metals Group5,Metals Group4,Alkalinity,Ammonia,Anions Group1,BOD5,pH,TDS,TKN,Total Nitrogen,TSS,Turbidity

A. Number of Samples and Date of Receipt:
19 Water samples were received on 09/24/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group1,Dissolved Metals Group5,Metals Group4,Alkalinity,Ammonia,Anions Group1,BOD5,pH,TDS,TKN,Total Nitrogen,TSS,Turbidity. This data package contains results for VOCMS Group1(8260-Low),Dissolved Metals Group5(6010D),Metals Group4(6010D),Alkalinity(SM2320 B),Ammonia(SM4500-NH3),Anions Group1(300.0),BOD5(SM5210 B),pH(SM 4500-H B),TDS(SM2540 C),TKN(SM4500 N Org B or C),Total Nitrogen(Cal),TSS(SM2540 D),Turbidity(SM2130 B).

C. Analytical Techniques:
VOCMS Group1 : 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 VOCMS Group1 was based on method 8260D.

Dissolved Metals Group5,Metals Group4 : The analysis of Dissolved Metals Group5,Metals Group4 was based on method 6010D and digestion based on method 3010 (waters).

Wetchem : The analysis of Anions Group1 was based on method 300.0, The analysis of Total Nitrogen was based on method Cal, The analysis of pH was based on method SM 4500-H B, The analysis of Turbidity was based on method SM2130 B, The analysis of Alkalinity was based on method SM2320 B, The analysis of TDS was based on method SM2540 C, The analysis of TSS was based on method SM2540 D, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Ammonia was based on method SM4500-NH3 and The analysis of BOD5 was based on method SM5210 B.

D. QA/ QC Samples:
The Holding Times were met for all analysis except following
Wetchem : SY-2D of pH, for SY-2R of pH, for SY-3 of pH, for SY-3D of pH, for SY-3DD of pH, for SY-5 of pH, for SY-6 of pH as samples were receive out of holding time.

SY-6 of Nitrate and Nitrite as sample was analyzed out of holding time. SY-6 of TDS, for SY-2R of TDS as samples were analyzed 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
VOCMS Group1 : The MS {Q3202-13MS} with File ID: VX048032.D recoveries met the requirements for all compounds except for Methyl iodide [76%] due to matrix interference.

 Wetchem : The Matrix Spike (SY-3DMS) analysis met criteria for all compounds except for Chloride due to sample matrix interference.

The MSD recoveries met the requirements for all compounds except following
VOCMS Group1 : The MSD {Q3202-15MSD} with File ID: VX048033.D recoveries met the requirements for all compounds except for 1,2-Dibromoethane[120%] due to matrix interference.

Dissolved Metals Group5,Metals Group4 : The Matrix Spike Duplicate (SY-3DMSD) analysis met criteria for all compounds except for Barium due to Chemical Interference during Digestion process.

 Wetchem : The Matrix Spike Duplicate (SY-3DMSD) analysis met criteria for all compounds except for Chloride due to sample matrix interference.

The RPD recoveries met criteria.
The Blank Spike met requirements for all compounds except following
VOCMS Group1 : The Blank Spike for {VX1006WBS02} with File ID: VX048014.D met requirements for all compounds except for Methyl iodide [67%], trans-1,4-Dichloro-2-butene[78%] are failing marginally low therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Wetchem : Sample SY-2R was diluted due to high concentrations for Chloride & Sample SY-2D was diluted due to high concentrations for Chloride & Sample SY-5 was diluted due to high concentrations for Chloride & Sample SY-3D was diluted due to high concentrations for Ammonia as N,TKN,Chloride,Sulfate & Sample SY-3DDL was diluted due to high concentrations for Chloride & Sample SY-3 was diluted due to high concentrations for Ammonia as N,Chloride.

The Duplicate analysis met criteria for all compoundsexcept following
Dissolved Metals Group5,Metals Group4 : The Duplicate (SY-3DMSD) analysis met criteria for all compounds except for Iron due to Chemical interference during Digestion process.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:
Alkalinity,Ammonia,Anions Group1,BOD5,pH,TDS,TKN,Total Nitrogen,TSS,Turbidity : Due to very turbid matrix Q3202-11 was performed with 2X straight dilution and Q3202-17 was performed with 100X straight dilution for Turbidity parameter.

Dissolved Metals Group5,Metals Group4 : Sample Q3202-01, Q3202-03, Q3202-05, Q3202-07, Q3202-09, Q3202-11, Q3202-17 Analyzed as Total Metal and Sample Q3202-02, Q3202-04, Q3202-06, Q3202-08, Q3202-10, Q3202-12, Q3202-18 Analyzed as Dissolved Metal.

VOCMS Group1 : Alliance has analyzed samples for VOCMS Group1 by Method 8260D for Project "Syosset Landfill 2025". Alliance is not certified for trans-1,4-dichloro-2-butene compounds with NJDEP for 8260D method for VOCMS Group1 at the time when samples for Project "Syosset Landfill 2025 "were analyzed.

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_____