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CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Waste Water PT

Project # N/A

Chemtech Project # Q1505

Test Name: Hexavalent Chromium,Settleable Solids,Nitrite,TS,Oil and Grease,Anions Group5,pH,Anions Group2,Alkalinity,Phosphorus-Ortho,Color,CBOD5,Cyanide,TVS,TOC,Phenolics,TKN,Ammonia,TPH,Turbidity,Residual Chlorine,Phosphorus-Total,TDS,COD,Chloride,BOD5,Sulfide,TSS,Anions Group1,Sulfate,Anions Group4,Conductance

A. Number of Samples and Date of Receipt:

34 Water samples were received on 03/05/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Ammonia, Anions Group1, Anions Group2, Anions Group4, Anions Group5, BOD5, CBOD5, Chloride, COD, Color, Conductance, Cyanide, Hexavalent Chromium, Nitrite, Oil and Grease, pH, Phenolics, Phosphorus-Ortho, Phosphorus-Total, Residual Chlorine, Settleable Solids, Sulfate, Sulfide, TDS, TKN, TOC, TPH, TS, TSS, Turbidity and TVS. This data package contains results for Hexavalent Chromium,Settleable Solids,Nitrite,TS,Oil and Grease,Anions Group5,pH,Anions Group2,Alkalinity,Phosphorus-Ortho,Color,CBOD5,Cyanide,TVS,TOC,Phenolics,TKN,Ammonia,TPH,Turbidity,Residual Chlorine,Phosphorus-Total,TDS,COD,Chloride,BOD5,Sulfide,TSS,Anions Group1,Sulfate,Anions Group4,Conductance.

C. Analytical Techniques:

The analysis of Conductance was based on method 120.1, The analysis of TVS was based on method 160.4, The analysis of Oil and Grease,TPH was based on method 1664A, The analysis of Turbidity was based on method 180.1, The analysis of Anions Group1,Anions Group2,Anions Group4 was based on method 300.0, The analysis of Phosphorus-Total was based on method 365.3, The analysis of Phenolics was based on method 420.1, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Cyanide was based on method 9012B, The analysis of Cyanide was based on method 9014, The analysis of Sulfide was based on method 9034, The analysis of Sulfate was based on method 9038, The analysis of pH was based on method 9040C, The analysis of Conductance was based on method 9050A, The analysis of Anions Group1,Anions Group2,Anions Group5 was based on method 9056A, The analysis of TOC was based on method 9060A, The analysis of Phenolics was based on method 9065, The analysis of pH was based on method SM 4500-H B, The analysis of Sulfate was based on method SM 4500-SO4E, The analysis of Color was based on method SM2120 B, The analysis of Turbidity was based on method SM2130 B, The analysis of Alkalinity was based on



method SM2320 B, The analysis of Conductance was based on method SM2510 B, The analysis of TS was based on method SM2540 B, The analysis of TDS was based on method SM2540 C, The analysis of TSS was based on method SM2540 D, The analysis of Settleable Solids was based on method SM2540 F, The analysis of TVS was based on method SM2540 G, The analysis of Hexavalent Chromium was based on method SM3500-Cr B, The analysis of Residual Chlorine was based on method SM4500 Cl G, The analysis of TKN was based on method SM4500 N Org B or C, The analysis of Sulfide was based on method SM4500 S EorF, The analysis of Chloride was based on method SM4500-CL C, 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 Nitrite was based on method SM4500-NO₂ B, The analysis of Phosphorus-Ortho was based on method SM4500-P E, The analysis of BOD₅,CBOD₅ was based on method SM5210 B, The analysis of COD was based on method SM5220 D and The analysis of TOC was based on method SM5310B.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

Sample PT-DEM-WP was diluted due to high concentrations for TOC

& Sample PT-DEM-WP was diluted due to high concentrations for TOC

& Sample PT-MIN1-WP was diluted due to high concentrations for Chloride,Sulfate

& Sample PT-MIN1-WPDL was diluted due to high concentrations for Chloride

& Sample PT-MIN1-WP was diluted due to high concentrations for Chloride,Sulfate

& Sample PT-MIN1-WPDL was diluted due to high concentrations for Chloride

& Sample PT-NUT1-WP was diluted due to high concentrations for Ammonia as N,Nitrate

& Sample PT-NUT1-WP was diluted due to high concentrations for Nitrate

& Sample PT-NUT2-WP was diluted due to high concentrations for Phosphorus, Total,TKN

& Sample PT-NUT3-WP was diluted due to high concentrations for Nitrite.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike(TAPIAL3-MW03D-031025-00-T1MS)analysis met criteria for all samples except for Chloride due to matrix interference.

The Matrix Spike(EFFLUENTMS)analysis met criteria for all samples except for Orthophosphate as P due to matrix interference.

The Matrix Spike Duplicate(TAPIAL3-MW03D-031025-00-T1MSD)analysis met criteria for all samples except for Chloride due to matrix interference.

The Matrix Spike Duplicate(EFFLUENTMSD)analysis met criteria for all samples except for Orthophosphate as P due to matrix interference.

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

The Calibration met the requirements.



E. Additional Comments: For Phosphorus-Ortho, sample Q1505-12 Based on 300.0 method 10X was performed and reported.

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_____