



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

CASE NARRATIVE

Dal-Tile

Project Name: Waste Water - Dickson Plant

Project # N/A

Order ID # Q3616

Test Name: Mercury, Metals ICP-Group1, Ammonia, BOD5, Cyanide, Hexavalent Chromium, Oil and Grease, Phosphorus-Total, TSS

A. Number of Samples and Date of Receipt:

5 Water samples were received on 11/12/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-Group1, Ammonia, BOD5, Cyanide, Hexavalent Chromium, Oil and Grease, Phosphorus-Total, TSS. This data package contains results for Mercury(7470A), Metals ICP-Group1(6010D), Ammonia(SM4500-NH3), BOD5(SM5210 B), Cyanide (SM4500-CN C,E), Hexavalent Chromium(7196A), Oil and Grease(1664A), Phosphorus-Total(365.3), TSS(SM2540 D).

C. Analytical Techniques:

Mercury, Metals ICP-Group1 : The analysis of Metals ICP-Group1 was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

Wetchem : The analysis of Oil and Grease was based on method 1664A, The analysis of Phosphorus-Total was based on method 365.3, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of TSS was based on method SM2540 D, The analysis of Cyanide was based on method SM4500-CN C,E, 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.

The MS recoveries met the requirements for all compounds except following Mercury, Metals ICP-Group1 : The Matrix Spike (1010-BMS) analysis met criteria for all compounds except for Mercury due to Sample matrix interference.

Wetchem : The Matrix Spike (CYANIDEMS) analysis met criteria for all compounds except for Cyanide due to Sample Matrix interference.



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The MSD recoveries met the requirements for all compounds except following Wetchem : The Matrix Spike Duplicate (CYANIDEMSD) analysis met criteria for all compounds except for Cyanide due to Sample matrix interference.

The RPD recoveries met criteria.

The Blank Spike met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

Wetchem : Sample CYANIDE was diluted due to high concentrations for Cyanide & Sample Composite was diluted due to high concentrations for Ammonia as N.

The Duplicate analysis met criteria for all compounds.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

Ammonia,BOD5,Cyanide,Hexavalent Chromium,Oil and Grease,Phosphorus-Total,TSS :

As per method 1664A, MS/MSD is required to be performed with the sample analysis.

However, Lab did not receive sufficient volume to perform the MS/MSD for Q3616 therefore Lab reported MS-MSD from Q3578.

Due to limited volume DUP, MS and MSD were not performed for Hexavalent Chromium.

As per method, aqueous sample for Hexavalent Chromium analysis should be filtered within 15 minutes of collection time. However, samples were not filtered as per requirement therefore Sample was filtered in the Lab within the same day of sample receipt, and analyzed within 24 hours from collection.

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_____