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## **CASE NARRATIVE**

**Holland Manufacturing Co.**

**Project Name: Pre Treatment Plant 2025**

**Project # N/A**

**Chemtech Project # Q1466**

**Test Name: Oil and Grease, Anions Group2, Phosphorus-Ortho, Ammonia, Residual Chlorine, Phosphorus-Total, BOD5, TSS**

### **A. Number of Samples and Date of Receipt:**

5 Water samples were received on 02/27/2025.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group2, BOD5, Calcium, Hardness, Total, Magnesium, Oil and Grease, Phosphorus-Ortho, Phosphorus-Total, Residual Chlorine and TSS. This data package contains results for Oil and Grease, Anions Group2, Phosphorus-Ortho, Ammonia, Residual Chlorine, Phosphorus-Total, BOD5, TSS.

### **C. Analytical Techniques:**

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 Anions Group2 was based on method 9056A, The analysis of TSS was based on method SM2540 D, The analysis of Residual Chlorine was based on method SM4500 Cl G, The analysis of Ammonia was based on method SM4500-NH3, The analysis of Phosphorus-Ortho was based on method SM4500-P E and The analysis of BOD5 was based on method SM5210 B.

### **D. QA/ QC Samples:**

The Holding Times were met for all samples except for CITY WATER of Residual Chlorine as sample receive out of holding time.

Sample EFFLUENT was diluted due to high concentrations for Ammonia as N & Sample CITY WATER was diluted due to high concentrations for Chloride.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (EFFLUENTMS) analysis met criteria for all samples except for Phosphorus-Total due to sample matrix interference.

The Matrix Spike Duplicate (EFFLUENTMSD) analysis met criteria for all samples except for Phosphorus-Total due to sample matrix interference.

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

The Calibration met the requirements.

### **E. Additional Comments:**

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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\_\_\_\_\_