

## Cover Page

**Order ID :** Q1466

**Project ID :** Pre Treatment Plant 2025

**Client :** Holland Manufacturing Co.

**Lab Sample Number**

Q1466-01  
Q1466-02  
Q1466-03  
Q1466-04  
Q1466-05

**Client Sample Number**

EFFLUENT  
Q1466-01MS  
Q1466-01MSD  
AERATION  
CITY WATER

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. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : \_\_\_\_\_

Date: 3/13/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

## **CASE NARRATIVE**

**Holland Manufacturing Co.**

**Project Name: Pre Treatment Plant 2025**

**Project # N/A**

**Chemtech Project # Q1466**

**Test Name: Metals Group 12**

**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, Metals Group 12, Oil and Grease, Phosphorus-Ortho, Phosphorus-Total, Residual Chlorine and TSS. This data package contains results for Metals Group 12.

**C. Analytical Techniques:**

The analysis and digestion of Metals Group 12 was based on method 200.7.

**D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

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

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

**E. Additional Comments:**

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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-NH<sub>3</sub>, 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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Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

<b>J</b>	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
<b>U</b>	Indicates the analyte was analyzed for, but not detected.
<b>ND</b>	Indicates the analyte was analyzed for, but not detected
<b>E</b>	Indicates the reported value is estimated because of the presence of interference
<b>M</b>	Indicates Duplicate injection precision not met.
<b>N</b>	Indicates the spiked sample recovery is not within control limits.
<b>S</b>	Indicates the reported value was determined by the Method of Standard Addition (MSA).
<b>*</b>	Indicates that the duplicate analysis is not within control limits.
<b>+</b>	Indicates the correlation coefficient for the MSA is less than 0.995.
<b>D</b>	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
<b>M</b>	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
<b>OR</b>	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
<b>Q</b>	Indicates the LCS did not meet the control limits requirements
<b>H</b>	Sample Analysis Out Of Hold Time

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q1466

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 03/13/2025