

## **DATA PACKAGE**

GENERAL CHEMISTRY  
METALS

**PROJECT NAME : PRE TREATMENT PLANT 2025**

**HOLLAND MANUFACTURING CO.**

**15 Main Street**

**P.O. Box 404**

**Succasunna, NJ - 07876**

**Phone No: 973-584-8141**

**ORDER ID : Q1466**

**ATTENTION : Todd Holland**



**Laboratory Certification ID # 20012**



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## 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  
EFFLUENTMS  
EFFLUENTMSD  
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 :

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 9:00 am, Mar 13, 2025*

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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Signature\_\_\_\_\_

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 9:00 am, Mar 13, 2025*

## **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 received 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\_\_\_\_\_

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 9:00 am, Mar 13, 2025*

## 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



**Hit Summary Sheet**  
**SW-846**

<b>SDG No.:</b>	Q1466	<b>Order ID:</b>	Q1466
<b>Client:</b>	Holland Manufacturing Co.	<b>Project ID:</b>	Pre Treatment Plant 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
<b>Client ID : CITY WATER</b>								
Q1466-05	CITY WATER	Water	Calcium	22000		51.8	1000	ug/L
Q1466-05	CITY WATER	Water	Magnesium	11300		61.2	1000	ug/L
Q1466-05	CITY WATER	Water	Hardness, Total	101000		381	6620	ug/L



# SAMPLE DATA

## Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	02/27/25
Project:	Pre Treatment Plant 2025	Date Received:	02/27/25
Client Sample ID:	CITY WATER	SDG No.:	Q1466
Lab Sample ID:	Q1466-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-70-2	Calcium	22000	1	51.8		1000	ug/L	03/12/25 10:15	03/12/25 12:49	EPA 200.7	
Hardness	Hardness, Total	101000	1	381		6620	ug/L	03/12/25 10:15	03/12/25 12:49	EPA 200.7	
7439-95-4	Magnesium	11300	1	61.2		1000	ug/L	03/12/25 10:15	03/12/25 12:49	EPA 200.7	

Color Before: Colorless      Clarity Before: Clear      Texture:

Color After: Colorless      Clarity After: Clear      Artifacts:

Comments: Metals Group 12

U = Not Detected  
LOQ = Limit of Quantitation  
MDL = Method Detection Limit  
LOD = Limit of Detection  
D = Dilution  
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value  
B = Analyte Found in Associated Method Blank  
\* = indicates the duplicate analysis is not within control limits.  
E = Indicates the reported value is estimated because of the presence of interference.  
OR = Over Range  
N = Spiked sample recovery not within control limits

LAB CHRONICLE

OrderID:	Q1466	OrderDate:	2/28/2025 8:17:00 AM
Client:	Holland Manufacturing Co.	Project:	Pre Treatment Plant 2025
Contact:	Todd Holland	Location:	H11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1466-05	CITY WATER	Water	Metals Group 12	200.7	02/27/25	03/12/25	03/12/25	02/27/25



# SAMPLE DATA

## Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	02/27/25 09:00
Project:	Pre Treatment Plant 2025	Date Received:	02/27/25
Client Sample ID:	EFFLUENT	SDG No.:	Q1466
Lab Sample ID:	Q1466-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	823	OR	1	2.30	5.00	mg/L	03/05/25 14:15	03/06/25 10:09	SM 4500-NH3 B plus G-11
BOD5	11900		1	0.17	2.00	mg/L		02/28/25 16:00	SM 5210 B-16
Oil and Grease	46.6		1	0.40	5.00	mg/L		02/28/25 10:25	1664A
Orthophosphate as P	0.084		1	0.0040	0.050	mg/L		02/28/25 16:46	SM 4500-P E-11
Phosphorus, Total	0.17		1	0.0050	0.050	mg/L	02/28/25 13:00	02/28/25 15:36	365.3
TSS	500		1	1.00	4.00	mg/L		02/28/25 11:00	SM 2540 D-15

Comments:

U = Not Detected  
LOQ = Limit of Quantitation  
MDL = Method Detection Limit  
LOD = Limit of Detection  
D = Dilution  
Q = indicates LCS control criteria did not meet requirements  
H = Sample Analysis Out Of Hold Time

J = Estimated Value  
B = Analyte Found in Associated Method Blank  
\* = indicates the duplicate analysis is not within control limits.  
E = Indicates the reported value is estimated because of the presence of interference.  
OR = Over Range  
N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	02/27/25 09:00
Project:	Pre Treatment Plant 2025	Date Received:	02/27/25
Client Sample ID:	EFFLUENTDL	SDG No.:	Q1466
Lab Sample ID:	Q1466-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	813	D	10	22.5	50.0	mg/L	03/05/25 14:15	03/06/25 10:48	SM 4500-NH3 B plus G-11

Comments:

U = Not Detected  
LOQ = Limit of Quantitation  
MDL = Method Detection Limit  
LOD = Limit of Detection  
D = Dilution  
Q = indicates LCS control criteria did not meet requirements  
H = Sample Analysis Out Of Hold Time

J = Estimated Value  
B = Analyte Found in Associated Method Blank  
\* = indicates the duplicate analysis is not within control limits.  
E = Indicates the reported value is estimated because of the presence of interference.  
OR = Over Range  
N =Spiked sample recovery not within control limits

## Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	02/27/25 09:00
Project:	Pre Treatment Plant 2025	Date Received:	02/27/25
Client Sample ID:	AERATION	SDG No.:	Q1466
Lab Sample ID:	Q1466-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1890		1	1.00	4.00	mg/L		02/28/25 11:00	SM 2540 D-15

Comments:

U = Not Detected  
 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
 \* = indicates the duplicate analysis is not within control limits.  
 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits



## Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	02/27/25 09:00
Project:	Pre Treatment Plant 2025	Date Received:	02/27/25
Client Sample ID:	CITY WATER	SDG No.:	Q1466
Lab Sample ID:	Q1466-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	21.1	OR	1	0.011	0.60	mg/L		02/28/25 11:13	9056A
Residual Chlorine	1.05	H	1	0.016	0.10	mg/L		02/28/25 10:11	SM 4500-Cl G-11

Comments:

U = Not Detected  
LOQ = Limit of Quantitation  
MDL = Method Detection Limit  
LOD = Limit of Detection  
D = Dilution  
Q = indicates LCS control criteria did not meet requirements  
H = Sample Analysis Out Of Hold Time

J = Estimated Value  
B = Analyte Found in Associated Method Blank  
\* = indicates the duplicate analysis is not within control limits.  
E = Indicates the reported value is estimated because of the presence of interference.  
OR = Over Range  
N = Spiked sample recovery not within control limits

## Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	02/27/25 09:00
Project:	Pre Treatment Plant 2025	Date Received:	02/27/25
Client Sample ID:	CITY WATERDL	SDG No.:	Q1466
Lab Sample ID:	Q1466-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	19.6	D	5	0.055	3.00	mg/L		02/28/25 12:39	9056A

Comments:

U = Not Detected  
 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 D = Dilution  
 Q = indicates LCS control criteria did not meet requirements  
 H = Sample Analysis Out Of Hold Time

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
 \* = indicates the duplicate analysis is not within control limits.  
 E = Indicates the reported value is estimated because of the presence of interference.  
 OR = Over Range  
 N = Spiked sample recovery not within control limits

## LAB CHRONICLE

<b>OrderID:</b>	Q1466	<b>OrderDate:</b>	2/28/2025 8:17:00 AM
<b>Client:</b>	Holland Manufacturing Co.	<b>Project:</b>	Pre Treatment Plant 2025
<b>Contact:</b>	Todd Holland	<b>Location:</b>	H11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
<b>Q1466-01</b>	<b>EFFLUENT</b>	<b>WATER</b>			<b>02/27/25 09:00</b>			<b>02/27/25</b>
			Ammonia	SM4500-NH3		03/05/25	03/06/25 10:09	
			BOD5	SM5210 B			02/28/25 16:00	
			Oil and Grease	1664A			02/28/25 10:25	
			Phosphorus-Ortho	SM4500-P E			02/28/25 16:46	
			Phosphorus-Total	365.3		02/28/25	02/28/25 15:36	
			TSS	SM2540 D			02/28/25 11:00	
<b>Q1466-01DL</b>	<b>EFFLUENTDL</b>	<b>WATER</b>			<b>02/27/25 09:00</b>			<b>02/27/25</b>
			Ammonia	SM4500-NH3		03/05/25	03/06/25 10:48	
<b>Q1466-04</b>	<b>AERATION</b>	<b>WATER</b>			<b>02/27/25 09:00</b>			<b>02/27/25</b>
			TSS	SM2540 D			02/28/25 11:00	
<b>Q1466-05</b>	<b>CITY WATER</b>	<b>WATER</b>			<b>02/27/25 09:00</b>			<b>02/27/25</b>
			Anions Group2	9056A			02/28/25 11:13	
			Residual Chlorine	SM4500 Cl G			02/28/25 10:11	

**LAB CHRONICLE**

<b>Q1466-05DL</b>	<b>CITY WATERDL</b>	<b>WATER</b>			<b>02/27/25</b> <b>09:00</b>	<b>02/27/25</b>
			Anions Group2	9056A		02/28/25 12:39



# SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **HOLLAND MANUFACTURING Co**  
ADDRESS: **15 MAIN ST**  
CITY **SUCCASUNNA** STATE: **NJ** ZIP: **07876**  
ATTENTION:  
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **HMC PRETREAT + Gum**  
PROJECT NO.: LOCATION:  
PROJECT MANAGER: **TODD HOLLAND**  
e-mail:  
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: **SAME** PO#:  
ADDRESS:  
CITY STATE: ZIP:  
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS\*  
HARDCOPY (DATA PACKAGE): DAYS\*  
EDD: DAYS\*  
\*TO BE APPROVED BY CHEMTECH  
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)  
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP  
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B  
+ Raw Data ☐ Other  
☐ EDD FORMAT

**BOD5** **TSS** **O+G** **PO4** **TOTAL P** **NH4** **Ca+Mg+Cl** **HARDNESS+Clay**

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E	E	C	C	C	C	E			
1.	EFFLUENT	W		X	2/27	0900	6	X	X	X	X	X	X				
2.	AERATION	W		X	2/27	0900	1		X								
3.	CITY WATER	W		X	2/27	0900	2							X	X		
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input checked="" type="checkbox"/> COOLER TEMP <b>2.2</b> °C
1. <i>[Signature]</i>	<b>2/27 0900</b>	1. <i>[Signature]</i>	Comments: <b>02/27/25 @ 1619</b>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3.		3.	

Page \_\_\_\_ of CLIENT: ☒ Hand Delivered ☐ Other Shipment Complete  
☐ YES ☐ NO

---

**From:** Ed Martinez <eduardo@hollandmfg.com>  
**Sent:** Thursday, February 27, 2025 9:29 AM  
**Subject:** RE: Sample Delivery COC#2046153

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

[Secured by Check Point](#)

Kiran,

I'm setting up a dropoff to the lab today. They should be there this afternoon.

In return, I need:

1 Cooler

3 x 1L (plain)

4 x 500mL (with preservative)

3 x Amber (with preservative)

Cooling packs

Ed Martinez

QA / Technical Supervisor

*'Quality is when the customer returns, and the product does not.'*

### Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488