

DATA PACKAGE

GENERAL CHEMISTRY

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 : Q3028

ATTENTION : Todd Holland



Laboratory Certification ID # 20012



1) Signature Page	3
2) Case Narrative	4
2.1) Genchem- Case Narrative	4
3) Qualifier Page	6
4) QA Checklist	7
5) Genchem Data	8
6) Shipping Document	16
6.1) CHAIN OF CUSTODY	17
6.2) Lab Certificate	18

1
2
3
4
5
6

Cover Page

Order ID : Q3028

Project ID : Pre Treatment Plant 2025

Client : Holland Manufacturing Co.

Lab Sample Number

Q3028-01
Q3028-02
Q3028-03
Q3028-04
Q3028-05

Client Sample Number

EFFLUENT
EFFLUENTMS
EFFLUENTMSD
AERATION
INFLUENT

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 10:13 am, Sep 12, 2025

Date: 9/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Holland Manufacturing Co.

Project Name: Pre Treatment Plant 2025

Project # N/A

Order ID # Q3028

Test Name: Ammonia,BOD5,Oil and Grease,Phosphorus-Ortho,Phosphorus-Total,TSS

A. Number of Samples and Date of Receipt:

5 Water samples were received on 09/04/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Ammonia,BOD5,Oil and Grease,Phosphorus-Ortho,Phosphorus-Total,TSS. This data package contains results for Ammonia,BOD5,Oil and Grease,Phosphorus-Ortho, Phosphorus-Total, 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 TSS was based on method SM2540 D, 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 analysis.

Sample EFFLUENT was diluted due to high concentrations for Ammonia as N & Sample INFLUENT was diluted due to high concentrations for Ammonia as N.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate analysis met criteria for all compounds.

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

The Calibration met the requirements.

E. Additional Comments:

As per method, aqueous sample for Ortho-Phosphorus analysis should be filtered within 15 minutes of collection time. However, samples were not filtered as per method requirement therefore Lab has filtered the samples in-house.

Sample Q3028-01 and Q3028-05, Due to bad matrix and client history 1ML was taken as an initial volume for Ammonia test.



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 10:14 am, Sep 12, 2025

DATA REPORTING QUALIFIERS- INORGANIC

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

J	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).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	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
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3028

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: 09/12/2025



SAMPLE DATA

Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	09/04/25 12:00
Project:	Pre Treatment Plant 2025	Date Received:	09/04/25
Client Sample ID:	EFFLUENT	SDG No.:	Q3028
Lab Sample ID:	Q3028-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	422	OR	1	1.50	5.00	mg/L	09/08/25 08:05	09/08/25 12:14	SM 4500-NH3 B plus G-21
BOD5	36900		1	0.20	2.00	mg/L		09/05/25 09:50	SM 5210 B-16
Oil and Grease	10.3		1	0.29	5.00	mg/L		09/05/25 10:00	1664A
Orthophosphate as P	0.037	J	1	0.0040	0.050	mg/L		09/05/25 11:37	SM 4500-P E-21
Phosphorus, Total	0.063		1	0.0050	0.050	mg/L	09/05/25 10:15	09/05/25 12:52	365.3
TSS	4280		1	1.00	4.00	mg/L		09/08/25 14:00	SM 2540 D-20

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:	09/04/25 12:00
Project:	Pre Treatment Plant 2025	Date Received:	09/04/25
Client Sample ID:	EFFLUENTDL	SDG No.:	Q3028
Lab Sample ID:	Q3028-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	404	D	10	15.0	50.0	mg/L	09/08/25 08:05	09/08/25 12:58	SM 4500-NH3 B plus G-21

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:	09/04/25 12:00
Project:	Pre Treatment Plant 2025	Date Received:	09/04/25
Client Sample ID:	AERATION	SDG No.:	Q3028
Lab Sample ID:	Q3028-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	4000		1	1.00	4.00	mg/L		09/08/25 14:00	SM 2540 D-20

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:	09/04/25 12:00
Project:	Pre Treatment Plant 2025	Date Received:	09/04/25
Client Sample ID:	INFLUENT	SDG No.:	Q3028
Lab Sample ID:	Q3028-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	326	OR	1	1.50	5.00	mg/L	09/08/25 08:05	09/08/25 12:14	SM 4500-NH3 B plus G-21
BOD5	48600		1	0.20	2.00	mg/L		09/05/25 09:50	SM 5210 B-16

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:	09/04/25 12:00
Project:	Pre Treatment Plant 2025	Date Received:	09/04/25
Client Sample ID:	INFLUENTDL	SDG No.:	Q3028
Lab Sample ID:	Q3028-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	304	D	5	7.50	25.0	mg/L	09/08/25 08:05	09/08/25 12:58	SM 4500-NH3 B plus G-21

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

OrderID:	Q3028	OrderDate:	9/4/2025 2:45:00 PM
Client:	Holland Manufacturing Co.	Project:	Pre Treatment Plant 2025
Contact:	Todd Holland	Location:	J12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3028-01	EFFLUENT	WATER			09/04/25 12:00			09/04/25
			Ammonia	SM4500-NH3		09/08/25	09/08/25 12:14	
			BOD5	SM5210 B			09/05/25 09:50	
			Oil and Grease	1664A			09/05/25 10:00	
			Phosphorus-Ortho	SM4500-P E			09/05/25 11:37	
			Phosphorus-Total	365.3		09/05/25	09/05/25 12:52	
			TSS	SM2540 D			09/08/25 14:00	
Q3028-01DL	EFFLUENTDL	WATER			09/04/25 12:00			09/04/25
			Ammonia	SM4500-NH3		09/08/25	09/08/25 12:58	
Q3028-04	AERATION	WATER			09/04/25 12:00			09/04/25
			TSS	SM2540 D			09/08/25 14:00	
Q3028-05	INFLUENT	WATER			09/04/25 12:00			09/04/25
			Ammonia	SM4500-NH3		09/08/25	09/08/25 12:14	
			BOD5	SM5210 B			09/05/25 09:50	

LAB CHRONICLE

Q3028-05DL	INFLUENTDL	WATER			09/04/25 12:00		09/04/25
			Ammonia	SM4500-NH3		09/08/25	09/08/25 12:58



SHIPPING DOCUMENTS

CLIENT INFORMATION				CLIENT PROJECT INFORMATION				CLIENT BILLING INFORMATION										
REPORT TO BE SENT TO:																		
COMPANY: <u>HOLLAND MFG Co</u>				PROJECT NAME: <u>HMC PRETREATMENT</u>				BILL TO: _____ PO#: _____										
ADDRESS: <u>15 MAIN ST</u>				PROJECT NO.: _____ LOCATION: _____				ADDRESS: _____										
CITY: <u>SUCCASUNNA</u> STATE: <u>NJ</u> ZIP: <u>07846</u>				PROJECT MANAGER: <u>TODD HOLLAND</u>				CITY: _____ STATE: _____ ZIP: _____										
ATTENTION: _____				e-mail: _____				ATTENTION: _____ PHONE: _____										
PHONE: _____		FAX: _____		PHONE: _____		FAX: _____		ANALYSIS										
DATA TURNAROUND INFORMATION				DATA DELIVERABLE INFORMATION				BOD 5 TSS PO₄ Total P NH₄ NHC										
FAX (RUSH) _____		DAYS*		☐ Level 1 (Results Only)		☐ Level 4 (QC + Full Raw Data)												
HARDCOPY (DATA PACKAGE): _____		DAYS*		☐ Level 2 (Results + QC)		☐ NJ Reduced ☐ US EPA CLP												
EDD: _____		DAYS*		☐ Level 3 (Results + QC)		☐ NYS ASP A ☐ NYS ASP B												
*TO BE APPROVED BY CHEMTECH				☐ + Raw Data		☐ Other _____												
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS				☐ EDD FORMAT _____														
ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES						COMMENTS				
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	EFFLUENT	W		✓	9/4	12:00	6	✓	✓	✓	✓	✓						
2.	ABERRATION	W		✓	9/4	1200	1		✓									
3.	INFLUENTS	W		✓	9/4	1200	3	✓					✓					
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: <u>9/4 12:00</u>		RECEIVED BY: _____		Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: <u>21</u> °C												
1. <u>[Signature]</u>				1. <u>[Signature]</u>		Comments: _____												
RELINQUISHED BY SAMPLER: _____		DATE/TIME: _____		RECEIVED BY: _____		LAB TO FILTER												
2. _____				2. _____														
RELINQUISHED BY SAMPLER: _____		DATE/TIME: _____		RECEIVED BY: _____		Page ____ of ____ CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete												
3. _____				3. _____		☐ YES ☐ NO												

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312