Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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

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LAB CHRONICLE

OrderID:	P5340	**OrderDate:**	12/18/2024 2:36:00 PM
Client:	Holland Manufacturing Co.	**Project:**	Pre Treatment Plant
Contact:	Todd Holland	**Location:**	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5340-01	**EFFLUENT**	**WATER**			**12/18/24 12:30**			**12/18/24**
			Ammonia	SM4500-NH3		12/26/24	12/26/24 12:08	
			BOD5	SM5210 B			12/18/24 16:30	
			Oil and Grease	1664A			12/20/24 09:00	
			Phosphorus-Ortho	SM4500-P E			12/19/24 16:06	
			Phosphorus-Total	365.3		12/19/24	12/19/24 14:06	
			TSS	SM2540 D			12/19/24 09:15	
P5340-01DL	**EFFLUENTDL**	**WATER**			**12/18/24 12:30**			**12/18/24**
			Ammonia	SM4500-NH3		12/26/24	12/26/24 12:38	
P5340-04	**AERATION TK 1**	**WATER**			**12/18/24 12:30**			**12/18/24**
			TSS	SM2540 D			12/19/24 09:15	
P5340-05	**INFLUENT**	**WATER**			**12/18/24 12:30**			**12/18/24**
			Ammonia	SM4500-NH3		12/26/24	12/26/24 12:08	
			BOD5	SM5210 B			12/18/24 16:30	

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LAB CHRONICLE

P5340-05DL	**INFLUENTDL**	**WATER**			**12/18/24 12:30**			**12/18/24**
			Ammonia	SM4500-NH3		12/26/24	12/26/24 12:38	

SAMPLE DATA

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/18/24 12:30
Project:	Pre Treatment Plant	Date Received:	12/18/24
Client Sample ID:	EFFLUENT	SDG No.:	P5340
Lab Sample ID:	P5340-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	388	OR	1	2.30	5.00	mg/L	12/26/24 09:50	12/26/24 12:08	SM 4500-NH3 B plus G-11
BOD5	19000		1	0.17	2.00	mg/L		12/18/24 16:30	SM 5210 B-16
Oil and Grease	17.1		1	0.40	5.00	mg/L		12/20/24 09:00	1664A
Orthophosphate as P	0.040	J	1	0.0040	0.050	mg/L		12/19/24 16:06	SM 4500-P E-11
Phosphorus, Total	0.053		1	0.0050	0.050	mg/L	12/19/24 12:00	12/19/24 14:06	365.3
TSS	1040		1	1.00	4.00	mg/L		12/19/24 09:15	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

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/18/24 12:30
Project:	Pre Treatment Plant	Date Received:	12/18/24
Client Sample ID:	EFFLUENTDL	SDG No.:	P5340
Lab Sample ID:	P5340-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	381	D	10	22.5	50.0	mg/L	12/26/24 09:50	12/26/24 12:38	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

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/18/24 12:30
Project:	Pre Treatment Plant	Date Received:	12/18/24
Client Sample ID:	AERATION TK 1	SDG No.:	P5340
Lab Sample ID:	P5340-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	920		1	1.00	4.00	mg/L		12/19/24 09:15	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

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/18/24 12:30
Project:	Pre Treatment Plant	Date Received:	12/18/24
Client Sample ID:	INFLUENT	SDG No.:	P5340
Lab Sample ID:	P5340-05	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	179	OR	1	2.30	5.00	mg/L	12/26/24 09:50	12/26/24 12:08	SM 4500-NH3 B plus G-11
BOD5	16300		1	0.17	2.00	mg/L		12/18/24 16:30	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

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Report of Analysis

Client:	Holland Manufacturing Co.	Date Collected:	12/18/24 12:30
Project:	Pre Treatment Plant	Date Received:	12/18/24
Client Sample ID:	INFLUENTDL	SDG No.:	P5340
Lab Sample ID:	P5340-05DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	173	D	2	4.50	10.0	mg/L	12/26/24 09:50	12/26/24 12:38	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

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **RunNo.:** LB134020

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Orthophosphate as P	mg/L	0.502	0.50	100	90-110	12/19/2024
Sample ID: CCV1						
Orthophosphate as P	mg/L	0.499	0.5	100	90-110	12/19/2024
Sample ID: CCV2						
Orthophosphate as P	mg/L	0.499	0.5	100	90-110	12/19/2024

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Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **RunNo.:** LB134022

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Phosphorus, Total	mg/L	0.497	0.50	99	90-110	12/19/2024
Sample ID: CCV1						
Phosphorus, Total	mg/L	0.497	0.50	99	90-110	12/19/2024
Sample ID: CCV2						
Phosphorus, Total	mg/L	0.494	0.50	99	90-110	12/19/2024

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Initial and Continuing Calibration Verification

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **RunNo.:** LB134087

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Ammonia as N	mg/L	1	1	100	90-110	12/26/2024
Sample ID: CCV1						
Ammonia as N	mg/L	0.98	1	98	90-110	12/26/2024
Sample ID: CCV2						
Ammonia as N	mg/L	1	1	100	90-110	12/26/2024
Sample ID: CCV3						
Ammonia as N	mg/L	1	1	100	90-110	12/26/2024
Sample ID: CCV4						
Ammonia as N	mg/L	1	1	100	90-110	12/26/2024

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Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **RunNo.:** LB134020

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0040	0.05	12/19/2024
Sample ID: CCB1							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0040	0.05	12/19/2024
Sample ID: CCB2							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.0040	0.05	12/19/2024

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Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **RunNo.:** LB134022

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Phosphorus, Total	mg/L	0.010	0.0250	J	0.0047	0.05	12/19/2024
Sample ID: CCB1							
Phosphorus, Total	mg/L	0.010	0.0250	J	0.0047	0.05	12/19/2024
Sample ID: CCB2							
Phosphorus, Total	mg/L	0.010	0.0250	J	0.0047	0.05	12/19/2024

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Initial and Continuing Calibration Blank Summary

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **RunNo.:** LB134087

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/26/2024
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/26/2024
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/26/2024
Sample ID: CCB3							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/26/2024
Sample ID: CCB4							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/26/2024

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Preparation Blank Summary

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133994BL							
BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	12/18/2024
Sample ID: LB134009BL							
TSS	mg/L	< 2.0000	2.0000	U	1	4	12/19/2024
Sample ID: LB134020BL							
Orthophosphate as P	mg/L	< 0.0250	0.0250	U	0.004	0.05	12/19/2024
Sample ID: LB134030BL							
Oil and Grease	mg/L	< 2.5000	2.5000	U	0.4	5.0	12/20/2024
Sample ID: PB165757BL							
Phosphorus, Total	mg/L	0.01	0.0250	J	0.005	0.05	12/19/2024
Sample ID: PB165803BL							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/26/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5340-01
Client ID: EFFLUENTMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.54		0.053		0.5	1	98		12/19/2024
Orthophosphate as P	mg/L	90-110	0.56		0.040	J	0.5	1	104		12/19/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5340-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.54		0.053		0.5	1	98		12/19/2024
Orthophosphate as P	mg/L	90-110	0.56		0.040	J	0.5	1	105		12/19/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5340-01
Client ID: EFFLUENTMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	37.3		17.1		20.0	1	101		12/20/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5340-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Oil and Grease	mg/L	78-114	36.8		17.1		20.0	1	98		12/20/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5356-01
Client ID: STAND-PIPEMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	1.00		0.045	U	1	1	100		12/26/2024

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Matrix Spike Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5356-01
Client ID: STAND-PIPEMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	1.10		0.045	U	1	1	110		12/26/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5320-02
Client ID: COMPDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
BOD5	mg/L	+/-20	758		727		1	4.17		12/18/2024
TSS	mg/L	+/-5	368		371		1	0.81		12/19/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5340-01
Client ID: EFFLUENTDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Orthophosphate as P	mg/L	+/-20	0.040	J	0.037	J	1	7.79		12/19/2024
Phosphorus, Total	mg/L	+/-20	0.053		0.054		1	1.87		12/19/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5340-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Orthophosphate as P	mg/L	+/-20	0.56		0.56		1	0.53		12/19/2024
Phosphorus, Total	mg/L	+/-20	0.54		0.54		1	0		12/19/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5340-01
Client ID: EFFLUENTMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Oil and Grease	mg/L	+/-18	37.3		36.8		1	1.35		12/20/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5356-01
Client ID: STAND-PIPEDUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	0.045	U	0.045	U	1	0		12/26/2024

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Duplicate Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Sample ID: P5356-01
Client ID: STAND-PIPEMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/L	+/-20	1.00		1.10		1	10		12/26/2024

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Laboratory Control Sample Summary

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **Run No.:** LB133994

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133994BS								
BOD5	mg/L	198	198		100	1	84.6-115.4	12/18/2024

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Laboratory Control Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Run No.: LB134009

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB134009BS								
TSS	mg/L	550	594		108	1	90-110	12/19/2024

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Laboratory Control Sample Summary

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **Run No.:** LB134020

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB134020BS								
Orthophosphate as P	mg/L	0.5	0.50		100	1	90-110	12/19/2024

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Laboratory Control Sample Summary

Client: Holland Manufacturing Co.
SDG No.: P5340
Project: Pre Treatment Plant
Run No.: LB134030

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB134030BS								
Oil and Grease	mg/L	20.0	16.7		84	1	78-114	12/20/2024

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Laboratory Control Sample Summary

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **Run No.:** LB134022

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB165757BS								
Phosphorus, Total	**mg/L**	**0.50**	**0.49**		**99**	**1**	**90-110**	**12/19/2024**

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

Laboratory Control Sample Summary

Client: Holland Manufacturing Co. **SDG No.:** P5340

Project: Pre Treatment Plant **Run No.:** LB134087

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB165803BS								
Ammonia as N	mg/L	1	0.98		98	1	90-110	12/26/2024

Alliance
TECHNICAL GROUP

RAW DATA

Reviewed By:Iwona
On:12/26/2024 3:34:22 PM
Inst Id :DO METER
LB :LB133994

BOD5 LOG

ANALYST: rubir
SUPERVISOR: Iwona

QC BATCH ID: LB133994
Analysis Date: 12/18/2024
BOD Water: WP111125
MANGANOUS SULFATE SOLUTION: W3103
Starch: W3149
Alkaline Iodide Azide: W3109
Sulfuric acid, 1N: WP110386
Sodium Thiosulfate, 0.025N: W3105
POLYSEED: WP111127
NaOH, 1N: WP108662
GGA: WP111126
IncubatorID: INCUBATOR #3
Chlorine Strips: W3155
GuageID: 0511062
pH Strips: W3140
Zero DO: WP111005

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading(ML)	Final Reading(ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.8	9.8	9.8
WINKLER 2	WINKLER 2	2	300	9.6	19.4	9.8	9.8

Meter Calibration1: 9.48 Zero DO Reading1: 0.08 mg/L (<=0.2 Criteria)

Barometric Pressure1: 765 mmHg DO Meter BOD fluid reading for winkler comparison: 9.81

After Incubation

Meter Calibration2: 9.18 Zero DO Reading2: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure2: 776 mmHg

Alliance TECHNICAL GROUP

QC BATCH ID: LB133994

INCUBATOR TEMP IN(C): 20.0 **INCUBATOR TEMP OUT(C):** 19.5

TIME IN: 16:30 **TIME OUT:** 13:00

DATE IN: 12/18/2024 **DATE OUT:** 12/23/2024

Lab SampleID	Bottle No.	Check CL	Initial PH	Final PH	Temp °C	Sam Vol. (mL)	D.O.1 Initial	D.O.2 Final	Depletion	BOD Result (mg/L)	Avg Result (mg/L)	Comment
LB133994BL	1	No	6.51	N/A	20.70	300	9.80	9.78	0.02	0.02	0.02	
POLYSEED	1					10	9.74	6.87	2.87	0.57	0.66	
POLYSEED	2					15	9.73	4.56	5.17	0.69		
POLYSEED	3					20	9.69	2.54	7.15	0.72		
GGA	1					6	9.78	5.23	4.55	194.5	198	
GGA	2					6	9.76	5.20	4.56	195		
GGA	3					6	9.76	5.01	4.75	204.5		
P5320-02	1	No	6.83	N/A	20.00	0.5	9.78	7.48	2.3	984	758.38	
P5320-02	2					1	9.72	6.42	3.3	792		
P5320-02	3					2	9.69	5.14	4.55	583.5		
P5320-02	4					3	9.58	2.18	7.4	674		
P5320-02DUP	1	No	6.83	N/A	20.00	0.5	9.76	7.59	2.17	906	727.38	
P5320-02DUP	2					1	9.72	6.62	3.1	732		
P5320-02DUP	3					2	9.68	5.01	4.67	601.5		
P5320-02DUP	4					3	9.58	2.22	7.36	670		
P5340-01	1	No	8.02	7.43	20.20	0.01	9.8	9.67	-	0	19020	pH Adjuste
P5340-01	2					0.05	9.74	5.91	3.83	19020		
P5340-01	3					0.1	9.56	0.03	-	0		
P5340-01	4					0.5	9.68	0.59	-	0		
P5340-01	5					1	9.68	0.42	-	0		
P5340-05	1	No	4.70	6.89	20.40	0.01	9.76	7.60	2.16	45000	16317	pH Adjuste
P5340-05	2					0.05	9.73	7.58	2.15	8940		
P5340-05	3					0.1	9.71	6.26	3.45	8370		
P5340-05	4					0.5	9.65	4.06	5.59	2958		
P5340-05	5					1	9.54	0.19	-	0		

NOTE: 2ml POLYSEED added to GGA and all the Samples, but not in Blank.

NOTE (For, CBOD5): 0.16 g Nitrification Inhibitor added to GGA and all the Samples, but not in Blank.

Lb133994

WORKLIST(Hardcopy Internal Chain)

WorkList Name : bod5-1218 **WorkList ID :** 186443 **Department :** Wet-Chemistry **Date :** 12-18-2024 10:49:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5320-02 B	COMP	Water	BOD5	Cool 4 deg C	ARAM01	M11	12/18/2024	SM5210 B
P5340-01 D	EFFLUENT	Water	BOD5	Cool 4 deg C	HOLL01	M11	12/18/2024	SM5210 B
P5340-05 B	INFLUENT	Water	BOD5	Cool 4 deg C	HOLL01	M11	12/18/2024	SM5210 B

Date/Time 12/18/2024 14:45
Raw Sample Received by: RM CWC
Raw Sample Relinquished by: [signature]

Date/Time 12/18/2024 16:0
Raw Sample Received by: [signature] WC
Raw Sample Relinquished by: RM CWC

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona
ANALYST: Niha
Date: 12/18/2024
Run Number: LB134009
BalanceID: WC SC-6
OvenID: WC OVEN-1
FilterID: 17416528
ThermometerID: WET OVEN#1

TEMP1 IN:	103 °C	12/18/2024 14:00	**TEMP1 OUT:**	104 °C	12/18/2024 15:00
TEMP2 IN:	103 °C	12/18/2024 15:30	**TEMP2 OUT:**	104 °C	12/18/2024 16:30
TEMP3 IN:	103 °C	12/19/2024 09:15	**TEMP3 OUT:**	103 °C	12/19/2024 10:45
TEMP4 IN:	104 °C	12/19/2024 11:15	**TEMP4 OUT:**	103 °C	12/19/2024 12:45

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB134009BL	LB134009BL	1.4032	1.4032	100	1.4032	1.4032	1.4032	0.0000	0
2	LB134009BS	LB134009BS	1.3956	1.3956	100	1.4550	1.4550	1.4550	0.0594	594
3	P5320-02	COMP	1.3576	1.3576	100	1.3944	1.3944	1.3944	0.0368	368
4	P5320-02DUP	COMPDUP	1.3821	1.3821	100	1.4192	1.4192	1.4192	0.0371	371
5	P5328-01	001-WILLETS-PT-BLVD(DEC)	1.3672	1.3672	100	1.3895	1.3895	1.3895	0.0223	223
6	P5328-02	002-35TH-AVE(DEC)	1.4845	1.4845	100	1.5045	1.5045	1.5045	0.0200	200
7	P5329-01	001A(JUL-DEC)	1.4686	1.4686	100	1.4908	1.4908	1.4908	0.0222	222
8	P5329-02	002A(JUL-DEC)	1.4010	1.4010	100	1.4211	1.4211	1.4211	0.0201	201
9	P5340-01	EFFLUENT	1.3633	1.3633	20	1.3840	1.3840	1.3840	0.0207	1035
10	P5340-04	AERATION TK 1	1.4066	1.4066	20	1.4250	1.4250	1.4250	0.0184	920

A = Sample Volume (ml)
B = Final Empty Dish Weight (g)
C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)
D = Weight (g)

Weight (g) = C - B

Result mg/L = $\frac{D}{A} * 1000 * 1000$

LB 134009

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TSS-12192024 **WorkList ID :** 186469 **Department :** Wet-Chemistry **Date :** 12-19-2024 08:30:16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5320-02	COMP	Water	TSS	Cool 4 deg C	ARAM01	M11	12/18/2024	SM2540 D
P5328-01	001-WILLETS-PT-BLVD(DEC)	Water	TSS	Cool 4 deg C	TULL01	L51	12/17/2024	SM2540 D
P5328-02	002-35TH-AVE(DEC)	Water	TSS	Cool 4 deg C	TULL01	L51	12/17/2024	SM2540 D
P5329-01	001A(JUL-DEC)	Water	TSS	Cool 4 deg C	WILL06	L51	12/17/2024	SM2540 D
P5329-02	002A(JUL-DEC)	Water	TSS	Cool 4 deg C	WILL06	L51	12/17/2024	SM2540 D
P5340-01	EFFLUENT	Water	TSS	Cool 4 deg C	HOLL01	M11	12/18/2024	SM2540 D
P5340-04	AERATION TK 1	Water	TSS	Cool 4 deg C	HOLL01	M11	12/18/2024	SM2540 D

Date/Time 12·19·2024, 08:35
Raw Sample Received by: NF(WC)
Raw Sample Relinquished by: RM SM

Date/Time 12·19·2024, 10:00
Raw Sample Received by: RM SM
Raw Sample Relinquished by: NF(WC)

Analytical Summary Report

Analysis Method: SM4500-P E

Parameter: Phosphorus-Ortho

Run Number: LB134020

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP111144
calibration std. phosphate 0.5 ppm	WP111143
calibration std. phosphate 0.3 ppm	WP111142
calibration std. phosphate 0.1 ppm	WP111141
calibration std. phosphate 0.05 ppm	WP111140
calibration std. 0 ppm	WP111139
phosphate CCV std.	WP111145
5N sulfuric acid	WP110380
Combined reagent	WP111148
Phenolphthalein indicator	WP108727
Sodium hydroxide, 1N	WP108662
Phosphate ICV-LCS Std	WP111146

Intercept: 0.0001 **Slope:** 0.6494 **Regression:** 0.99999

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	-0		12/19/2024	16:00
2	CAL2	0.05	1	50	50	0.032	0.049	-2	12/19/2024	16:00
3	CAL3	0.10	1	50	50	0.067	0.103	3	12/19/2024	16:01
4	CAL4	0.30	1	50	50	0.194	0.299	-0.3	12/19/2024	16:01
5	CAL5	0.50	1	50	50	0.324	0.499	-0.2	12/19/2024	16:02
6	CAL6	1.00	1	50	50	0.650	1.001	0.1	12/19/2024	16:02

Reviewed By:Iwona
On:12/20/2024
11:46:14 AM
Inst Id
:SPECTROPHOTOME

Analytical Summary Report

Analysis Method: SM4500-P E

ANALYST: Niha

Parameter: Phosphorus-Ortho

SUPERVISOR REVIEW BY: Iwona

Run Number: LB134020

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.326	0.502	12/19/2024	16:03
2	ICB		1	50	50	0.000	0.000	12/19/2024	16:03
3	CCV1	0.5	1	50	50	0.324	0.499	12/19/2024	16:04
4	CCB1		1	50	50	0.000	0.000	12/19/2024	16:04
5	RL Check	0.01	1	50	50	0.032	0.049	12/19/2024	16:05
6	LB134020BL		1	50	50	0.000	0.000	12/19/2024	16:05
7	LB134020BS	0.5	1	50	50	0.324	0.499	12/19/2024	16:06
8	P5340-01		1	50	50	0.026	0.040	12/19/2024	16:06
9	P5340-01DUP		1	50	50	0.024	0.037	12/19/2024	16:07
10	P5340-01MS	0.5	1	50	50	0.364	0.560	12/19/2024	16:07
11	P5340-01MSD	0.5	1	50	50	0.366	0.563	12/19/2024	16:08
12	CCV2	0.5	1	50	50	0.324	0.499	12/19/2024	16:08
13	CCB2		1	50	50	0.000	0.000	12/19/2024	16:09

LB/34020

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ORTHO P-12192024 **WorkList ID :** 186470 **Department :** Wet-Chemistry **Date :** 12-19-2024 08:35:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5340-01	EFFLUENT	Water	Phosphorus-Ortho	Cool 4 deg C	HOLL01	M11	12/18/2024	SM4500-P E

Date/Time 12.19.2024, 15:00

Raw Sample Received by: NFlwc)

Raw Sample Relinquished by: JB lwc)

Date/Time 12.19.2024, 17:0

Raw Sample Received by: JB lwc)

Raw Sample Relinquished by: NFlwc

Reviewed By:Iwona
On:12/20/2024
11:46:59 AM
Inst Id
:SPECTROPHOTOME

Analytical Summary Report

Analysis Method: 365.3

Parameter: Phosphorus-Total

Run Number: LB134022

ANALYST: Niha

SUPERVISOR REVIEW BY: Iwona

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP111144
calibration std. phosphate 0.5 ppm	WP111143
calibration std. phosphate 0.3 ppm	WP111142
calibration std. phosphate 0.1 ppm	WP111141
calibration std. phosphate 0.05 ppm	WP111140
calibration std. 0 ppm	WP111139
phosphate CCV std.	WP111145
Combined reagent	WP111148
Phenolphthalein indicator	WP108727
Sodium hydroxide, 1N	WP108662
Phosphate ICV-LCS Std	WP111146

Intercept: -0.0068 **Slope:** 0.6783 **Regression:** 0.999219

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.01		12/19/2024	14:00
2	CAL2	0.05	1	50	50	0.033	0.059	18	12/19/2024	14:00
3	CAL3	0.10	1	50	50	0.065	0.106	6	12/19/2024	14:01
4	CAL4	0.30	1	50	50	0.180	0.275	-8.3	12/19/2024	14:01
5	CAL5	0.50	1	50	50	0.324	0.488	-2.4	12/19/2024	14:02
6	CAL6	1.00	1	50	50	0.680	1.013	1.3	12/19/2024	14:02

Reviewed By:Iwona
On:12/20/2024
11:46:59 AM
Inst Id
:SPECTROPHOTOME

Analytical Summary Report

Analysis Method: 365.3 ANALYST: Niha

Parameter: Phosphorus-Total SUPERVISOR REVIEW BY: Iwona

Run Number: LB134022

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.330	0.497	12/19/2024	14:03
2	ICB		1	50	50	0.000	0.010	12/19/2024	14:03
3	CCV1	0.50	1	50	50	0.330	0.497	12/19/2024	14:04
4	CCB1		1	50	50	0.000	0.010	12/19/2024	14:04
5	RL Check	0.01	1	50	50	0.033	0.059	12/19/2024	14:05
6	PB165757BL		1	50	50	0.000	0.010	12/19/2024	14:05
7	PB165757BS	0.50	1	50	50	0.328	0.494	12/19/2024	14:06
8	P5340-01		1	50	50	0.029	0.053	12/19/2024	14:06
9	P5340-01DUP		1	50	50	0.030	0.054	12/19/2024	14:07
10	P5340-01MS	0.50	1	50	50	0.360	0.541	12/19/2024	14:07
11	P5340-01MSD	0.50	1	50	50	0.360	0.541	12/19/2024	14:08
12	CCV2	0.50	1	50	50	0.328	0.494	12/19/2024	14:08
13	CCB2		1	50	50	0.000	0.010	12/19/2024	14:09

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: Oil and Grease
Run Number: LB134030
Analysis Date: 12/20/2024
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 12/20/2024
Extration IN Time: 08:05
Extration OUT Time: 08:30
Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	pH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight(g)	Silica Gel Weight(g)	Weight After Drying(g)	Final Weight After Drying(g)	Change Weight (g)	Result in ppm
1	LB134030BL	LB134030BL	WATER	1.3	1000	100	3.2563	3.2563	0	3.2564	3.2564	0.0001	0.1
2	LB134030BS	LB134030BS	WATER	1.3	1000	100	2.7463	2.7463	0	2.7630	2.7630	0.0167	16.7
3	P5340-01	EFFLUENT	WATER	1.6	1000	100	3.0338	3.0338	0	3.0509	3.0509	0.0171	17.1
4	P5340-02	P5340-01MS	WATER	1.6	1000	100	2.5636	2.5636	0	2.6009	2.6009	0.0373	37.3
5	P5340-03	P5340-01MSD	WATER	1.6	1000	100	2.9187	2.9187	0	2.9555	2.9555	0.0368	36.8

QC Batch# LB134030 **Test:** Oil and Grease **Analysis Date:** 12/20/2024

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3153
pH Paper 0-14	M6069
Sodium Sulfate	EP2573
1:1 HCL	WP110826
Silica Gel	NA
Sand	NA

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	2.5 ML	WP100827
LCSWD	NA	NA
MS/MSD	2.5 ML	WP100828

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0004 **(0.9950-1.0050)**
Bal Check Time: 08:15

In OVEN TEMP1 : 70 °C **Dessicator Time In1 :** 10:21
In Time1: 09:00
Out OVEN TEMP1: 70 °C **Dessicator Time Out1:** 11:00
Out Time1: 10:20

After Analysis

0.0020 gram Balance: 0.0021 **(0.0018-0.0022)**
1.0000 gram Balance: 1.0005 **(0.9950-1.0050)**
Bal Check Time: 12:40

In OVEN TEMP2 : 71 °C **Dessicator Time In2 :** 12:01
In Time2: 11:30
Out OVEN TEMP2: 71 °C **Dessicator Time Out2:** 12:37
Out Time2: 12:00

WORKLIST(Hardcopy Internal Chain)

LB 134030

WorkList Name : oil & grease p5350 **WorkList ID :** 186507 **Department :** Wet-Chemistry **Date :** 12-20-2024 07:53:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5340-01 E	EFFLUENT	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	M11	12/18/2024	1664A
P5340-02	P5340-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	M11	12/18/2024	1664A
P5340-03	P5340-01MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	HOLL01	M11	12/18/2024	1664A

Date/Time 12/20/24 08:00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 12/20/24 12:30

Raw Sample Received by:

Raw Sample Relinquished by:

LB134087

Test results | Aquakem 7.2AQ1 | Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM | Instrument ID : Konelab

12/26/2024 12:43

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.017	0.0	0.140	
ICB1	0.005	0.0	0.021	
CCV1	0.981	0.0	0.136	
CCB1	0.009	0.0	0.022	
RL CHECK	0.103	0.0	0.033	103% (50—150) 12/26/2024 RM
PB165837BL	0.014	0.0	0.022	
PB165837BS	0.991	0.0	0.137	
P5382-01	0.029	0.0	0.024	
P5382-01DUP	0.025	0.0	0.023	
P5382-01MS	1.043	0.0	0.143	
P5382-01MSD	1.015	0.0	0.140	
P5382-02	0.051	0.0	0.026	
P5382-03	0.025	0.0	0.023	
PB165803BL	0.003	0.0	0.021	
CCV2	1.006	0.0	0.139	
CCB2	0.010	0.0	0.022	
PB165803BS	0.984	0.0	0.136	
P5340-01	7.756	0.0	0.931	Test limit high
P5340-05	3.576	0.0	0.440	Test limit high
P5356-01	0.024	0.0	0.023	
P5356-01DUP	0.021	0.0	0.023	
P5356-01MS	1.047	0.0	0.143	
P5356-01MSD	1.054	0.0	0.144	
CCV3	1.026	0.0	0.141	
CCB3	0.012	0.0	0.022	
P5340-01DLX10	0.762	0.0	0.110	
P5340-05DLX2	1.725	0.0	0.223	
CCV4	1.001	0.0	0.138	
CCB4	0.011	0.0	0.022	

N	29
Mean	0.873
SD	1.5323
CV%	175.43

Calibration results Aquakem 7.2AQ1 Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

12/26/2024 11:01

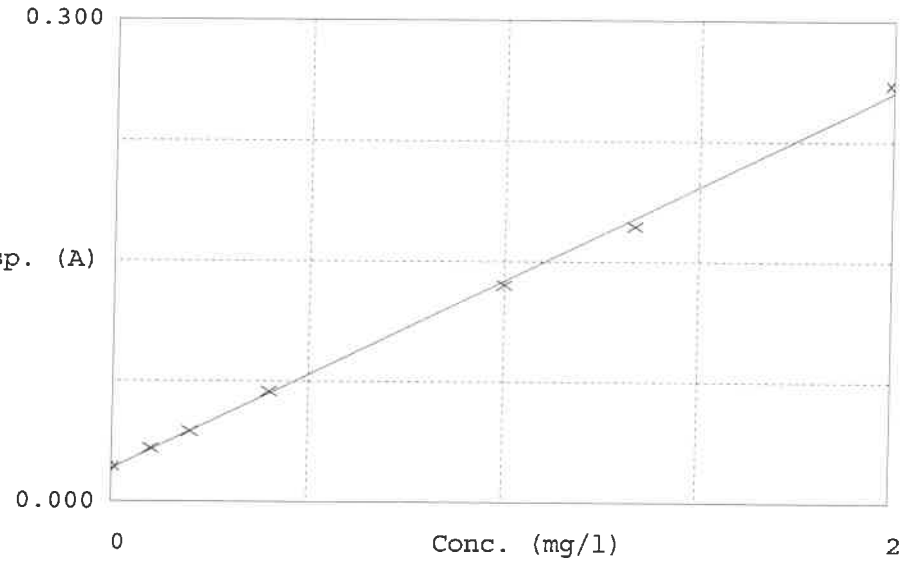
Test Ammonia-N

Accepted 12/26/2024 11:01

Factor 8.515
Bias 0.020

Coeff. of det. 0.998737

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.022	0.0109	0.0000	-
2	NH3-2PPM	0.033	0.1079	0.1000	7.9
3	NH3-2PPM	0.044	0.1989	0.2000	-0.6
4	NH3-2PPM	0.069	0.4110	0.4000	2.7
5	NH3-2PPM	0.135	0.9771	1.0000	-2.3
6	NH3-2PPM	0.172	1.2892	1.3333	-0.8
7	NH3-2PPM	0.260	2.0384	2.0000	1.9

12/26/2024
RM

Aquakem v. 7.2AQ1
Results from time period:
Thu Dec 26 10:46:26 2024
Thu Dec 26 12:38:27 2024

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-N	P	0.0109	mg/l	12/26/2024 10:46:26	
0.1PPM	A	Ammonia-N	P	0.1079	mg/l	12/26/2024 10:46:27	
0.2PPM	A	Ammonia-N	P	0.1989	mg/l	12/26/2024 10:46:28	
0.4PPM	A	Ammonia-N	P	0.411	mg/l	12/26/2024 10:46:29	
1.0PPM	A	Ammonia-N	P	0.9771	mg/l	12/26/2024 10:46:30	
1.3PPM	A	Ammonia-N	P	1.2892	mg/l	12/26/2024 10:46:31	
2.0PPM	A	Ammonia-N	P	2.0384	mg/l	12/26/2024 10:46:32	
ICV1	S	Ammonia-N	P	1.0174	mg/l	12/26/2024 11:47:23	
ICB1	S	Ammonia-N	P	0.0052	mg/l	12/26/2024 11:47:26	
CCV1	S	Ammonia-N	P	0.9809	mg/l	12/26/2024 11:47:28	
CCB1	S	Ammonia-N	P	0.0093	mg/l	12/26/2024 11:47:29	
RL CHECK	S	Ammonia-N	P	0.1033	mg/l	12/26/2024 11:47:32	
PB165837BL	S	Ammonia-N	P	0.0143	mg/l	12/26/2024 11:47:34	
PB165837BS	S	Ammonia-N	P	0.9915	mg/l	12/26/2024 11:58:07	
P5382-01	S	Ammonia-N	P	0.0295	mg/l	12/26/2024 11:58:09	
P5382-01DUP	S	Ammonia-N	P	0.0251	mg/l	12/26/2024 11:58:12	
P5382-01MS	S	Ammonia-N	P	1.0429	mg/l	12/26/2024 11:58:13	
P5382-01MSD	S	Ammonia-N	P	1.0154	mg/l	12/26/2024 11:58:14	
P5382-02	S	Ammonia-N	P	0.0508	mg/l	12/26/2024 11:58:15	
P5382-03	S	Ammonia-N	P	0.0249	mg/l	12/26/2024 11:58:16	
PB165803BL	S	Ammonia-N	P	0.0034	mg/l	12/26/2024 11:58:17	
CCV2	S	Ammonia-N	P	1.0061	mg/l	12/26/2024 12:08:50	
CCB2	S	Ammonia-N	P	0.0098	mg/l	12/26/2024 12:08:51	
PB165803BS	S	Ammonia-N	P	0.9836	mg/l	12/26/2024 12:08:53	
P5340-01	S	Ammonia-N	P	7.7561	mg/l	12/26/2024 12:08:55	
P5340-05	S	Ammonia-N	P	3.5764	mg/l	12/26/2024 12:08:56	
P5356-01	S	Ammonia-N	P	0.0242	mg/l	12/26/2024 12:08:58	
P5356-01DUP	S	Ammonia-N	P	0.0211	mg/l	12/26/2024 12:08:59	
P5356-01MS	S	Ammonia-N	P	1.0472	mg/l	12/26/2024 12:16:03	
P5356-01MSD	S	Ammonia-N	P	1.0544	mg/l	12/26/2024 12:16:04	
CCV3	S	Ammonia-N	P	1.0259	mg/l	12/26/2024 12:16:05	
CCB3	S	Ammonia-N	P	0.0124	mg/l	12/26/2024 12:16:07	
P5340-01DLX10	S	Ammonia-N	P	0.7618	mg/l	12/26/2024 12:38:20	
P5340-05DLX2	S	Ammonia-N	P	1.7252	mg/l	12/26/2024 12:38:22	
CCV4	S	Ammonia-N	P	1.0007	mg/l	12/26/2024 12:38:24	
CCB4	S	Ammonia-N	P	0.0107	mg/l	12/26/2024 12:38:26	

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB165803

SOP ID : MSM4500-NH3 B,G-Ammonia-17

SDG No : N/A

Start Digest Date: 12/26/2024 **Time :** 09:50 **Temp :** 150 °C

Matrix : WATER

End Digest Date: 12/26/2024 **Time :** 10:50 **Temp :** 160 °C

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#2 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

Block ID : WC-DIST-BLOCK-1 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : N/A **pH Meter ID :** N/A **Supervisor Signature:** R

Standared Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP111092
MS/MSD SPIKE SOL.	1.0ML	WP111091
PBW	50.0ML	W3112
RL CHECK	N/A	AS PER PB165837
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP108708
NAOH 6N	0.5-2.0ML	WP108660
H2SO4 0.04N	5.0ML	WP110335
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT
WP108814,Due to bad matrix and client history 1ML was taken as an initial volume for P5340-01 and P5340-05.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/26/2024 11:05	RM CWL	RM CWL
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Ammonia Preparation Sheet

PB165803

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P5340-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5340-05	INFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5356-01	STAND-PIPE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5356-01DUP	STAND-PIPEDUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5356-01MS	STAND-PIPEMS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
P5356-01MSD	STAND-PIPEMSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB165803BL	PBW803	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB165803BS	LCS803	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

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Fax : 908 789 8922

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QCBatch ID # LB133994

Review By	rubina	Review On	12/26/2024 3:32:50 PM
Supervise By	Iwona	Supervise On	12/26/2024 3:34:22 PM
SubDirectory	LB133994	Test	BOD5

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111125,W3149,WP110386,W3103,W3109,W3105,WP111127,WP111126,WP108662

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133994BL	LB133994BL	MB	12/18/24 16:30		rubina	OK
2	LB133994BS	LB133994BS	LCS	12/18/24 16:30		rubina	OK
3	P5320-02	COMP	SAM	12/18/24 16:30	Intermediate dilution	rubina	OK
4	P5320-02DUP	COMPDUP	DUP	12/18/24 16:30	Intermediate dilution	rubina	OK
5	P5340-01	EFFLUENT	SAM	12/18/24 16:30	Intermediate dilution	rubina	OK
6	P5340-05	INFLUENT	SAM	12/18/24 16:30	Intermediate dilution	rubina	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB134009

Review By	Niha	Review On	12/19/2024 1:23:34 PM
Supervise By	Iwona	Supervise On	12/19/2024 2:28:17 PM
SubDirectory	LB134009	Test	TSS

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134009BL	LB134009BL	MB	12/19/24 09:15		Niha	OK
2	LB134009BS	LB134009BS	LCS	12/19/24 09:15		Niha	OK
3	P5320-02	COMP	SAM	12/19/24 09:15		Niha	OK
4	P5320-02DUP	COMPDUP	DUP	12/19/24 09:15		Niha	OK
5	P5328-01	001-WILLETS-PT-BL	SAM	12/19/24 09:15		Niha	OK
6	P5328-02	002-35TH-AVE(DEC)	SAM	12/19/24 09:15		Niha	OK
7	P5329-01	001A(JUL-DEC)	SAM	12/19/24 09:15		Niha	OK
8	P5329-02	002A(JUL-DEC)	SAM	12/19/24 09:15		Niha	OK
9	P5340-01	EFFLUENT	SAM	12/19/24 09:15		Niha	OK
10	P5340-04	AERATION TK 1	SAM	12/19/24 09:15		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134020

Review By	Niha	Review On	12/20/2024 11:41:12 AM
Supervise By	Iwona	Supervise On	12/20/2024 11:46:14 AM
SubDirectory	LB134020	Test	Phosphorus-Ortho

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111144,WP111143,WP111142,WP111141,WP111140,WP111139,WP111145,WP110380,WP111148,WP108727,WP

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	12/19/24 16:00		Niha	OK
2	CAL2	CAL2	CAL	12/19/24 16:00		Niha	OK
3	CAL3	CAL3	CAL	12/19/24 16:01		Niha	OK
4	CAL4	CAL4	CAL	12/19/24 16:01		Niha	OK
5	CAL5	CAL5	CAL	12/19/24 16:02		Niha	OK
6	CAL6	CAL6	CAL	12/19/24 16:02		Niha	OK
7	ICV	ICV	ICV	12/19/24 16:03		Niha	OK
8	ICB	ICB	ICB	12/19/24 16:03		Niha	OK
9	CCV1	CCV1	CCV	12/19/24 16:04		Niha	OK
10	CCB1	CCB1	CCB	12/19/24 16:04		Niha	OK
11	RL Check	RL Check	SAM	12/19/24 16:05		Niha	OK
12	LB134020BL	LB134020BL	MB	12/19/24 16:05		Niha	OK
13	LB134020BS	LB134020BS	LCS	12/19/24 16:06		Niha	OK
14	P5340-01	EFFLUENT	SAM	12/19/24 16:06		Niha	OK
15	P5340-01DUP	EFFLUENTDUP	DUP	12/19/24 16:07		Niha	OK
16	P5340-01MS	EFFLUENTMS	MS	12/19/24 16:07		Niha	OK
17	P5340-01MSD	EFFLUENTMSD	MSD	12/19/24 16:08		Niha	OK
18	CCV2	CCV2	CCV	12/19/24 16:08		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134020

Review By	Niha	Review On	12/20/2024 11:41:12 AM
Supervise By	Iwona	Supervise On	12/20/2024 11:46:14 AM
SubDirectory	LB134020	Test	Phosphorus-Ortho

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111144,WP111143,WP111142,WP111141,WP111140,WP111139,WP111145,WP110380,WP111148,WP108727,WP

19	CCB2	CCB2	CCB	12/19/24 16:09		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134022

Review By	Niha	Review On	12/20/2024 11:39:52 AM
Supervise By	Iwona	Supervise On	12/20/2024 11:46:59 AM
SubDirectory	LB134022	Test	Phosphorus-Total

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111144,WP111143,WP111142,WP111141,WP111140,WP111139,WP111145,WP111148,WP108727,WP108662,WP

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	12/19/24 14:00		Niha	OK
2	CAL2	CAL2	CAL	12/19/24 14:00		Niha	OK
3	CAL3	CAL3	CAL	12/19/24 14:01		Niha	OK
4	CAL4	CAL4	CAL	12/19/24 14:01		Niha	OK
5	CAL5	CAL5	CAL	12/19/24 14:02		Niha	OK
6	CAL6	CAL6	CAL	12/19/24 14:02		Niha	OK
7	ICV	ICV	ICV	12/19/24 14:03		Niha	OK
8	ICB	ICB	ICB	12/19/24 14:03		Niha	OK
9	CCV1	CCV1	CCV	12/19/24 14:04		Niha	OK
10	CCB1	CCB1	CCB	12/19/24 14:04		Niha	OK
11	RL Check	RL Check	SAM	12/19/24 14:05		Niha	OK
12	PB165757BL	PB165757BL	MB	12/19/24 14:05		Niha	OK
13	PB165757BS	PB165757BS	LCS	12/19/24 14:06		Niha	OK
14	P5340-01	EFFLUENT	SAM	12/19/24 14:06		Niha	OK
15	P5340-01DUP	EFFLUENTDUP	DUP	12/19/24 14:07		Niha	OK
16	P5340-01MS	EFFLUENTMS	MS	12/19/24 14:07		Niha	OK
17	P5340-01MSD	EFFLUENTMSD	MSD	12/19/24 14:08		Niha	OK
18	CCV2	CCV2	CCV	12/19/24 14:09		Niha	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134022

Review By	Niha	Review On	12/20/2024 11:39:52 AM
Supervise By	Iwona	Supervise On	12/20/2024 11:46:59 AM
SubDirectory	LB134022	Test	Phosphorus-Total

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP111144,WP111143,WP111142,WP111141,WP111140,WP111139,WP111145,WP111148,WP108727,WP108662,WP

19	CCB2	CCB2	CCB	12/19/24 14:09		Niha	OK

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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB134030

Review By	jignesh	Review On	12/20/2024 10:48:56 AM
Supervise By	Iwona	Supervise On	12/20/2024 11:45:16 AM
SubDirectory	LB134030	Test	Oil and Grease

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3153,M6069,EP2573,WP110826,NA,NA,WP100827,NA,WP100828

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134030BL	LB134030BL	MB	12/20/24 09:00		jignesh	OK
2	LB134030BS	LB134030BS	LCS	12/20/24 09:00		jignesh	OK
3	P5340-01	EFFLUENT	SAM	12/20/24 09:00		jignesh	OK
4	P5340-02	P5340-01MS	MS	12/20/24 09:00		jignesh	OK
5	P5340-03	P5340-01MSD	MSD	12/20/24 09:00		jignesh	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB134087

Review By		Review On	
Supervise By		Supervise On	
SubDirectory	LB134087	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP111224
ICV Standard	WP111226
CCV Standard	WP111225
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111092
Chk Standard	WP110416,WP110019,WP108709,WP108840

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	12/26/24 10:46		rubina	OK
2	0.1PPM	0.1PPM	CAL2	12/26/24 10:46		rubina	OK
3	0.2PPM	0.2PPM	CAL3	12/26/24 10:46		rubina	OK
4	0.4PPM	0.4PPM	CAL4	12/26/24 10:46		rubina	OK
5	1.0PPM	1.0PPM	CAL5	12/26/24 10:46		rubina	OK
6	1.3PPM	1.3PPM	CAL6	12/26/24 10:46		rubina	OK
7	2.0PPM	2.0PPM	CAL7	12/26/24 10:46		rubina	OK
8	ICV1	ICV1	ICV	12/26/24 11:47		rubina	OK
9	ICB1	ICB1	ICB	12/26/24 11:47		rubina	OK
10	CCV1	CCV1	CCV	12/26/24 11:47		rubina	OK
11	CCB1	CCB1	CCB	12/26/24 11:47		rubina	OK
12	RL	RL	SAM	12/26/24 11:47		rubina	OK
13	PB165837BL	PB165837BL	MB	12/26/24 11:47		rubina	OK
14	PB165837BS	PB165837BS	LCS	12/26/24 11:58		rubina	OK
15	P5382-01	COMP-1	SAM	12/26/24 11:58		rubina	OK
16	P5382-01DUP	COMP-1DUP	DUP	12/26/24 11:58		rubina	OK
17	P5382-01MS	COMP-1MS	MS	12/26/24 11:58		rubina	OK
18	P5382-01MSD	COMP-1MSD	MSD	12/26/24 11:58		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB134087

Review By		Review On	
Supervise By		Supervise On	
SubDirectory	LB134087	Test	Ammonia

STD. NAME	STD REF.#
ICAL Standard	WP111224
ICV Standard	WP111226
CCV Standard	WP111225
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111092
Chk Standard	WP110416,WP110019,WP108709,WP108840

19	P5382-02	COMP-2	SAM	12/26/24 11:58		rubina	OK
20	P5382-03	COMP-3	SAM	12/26/24 11:58		rubina	OK
21	PB165803BL	PB165803BL	MB	12/26/24 11:58		rubina	OK
22	CCV2	CCV2	CCV	12/26/24 12:08		rubina	OK
23	CCB2	CCB2	CCB	12/26/24 12:08		rubina	OK
24	PB165803BS	PB165803BS	LCS	12/26/24 12:08		rubina	OK
25	P5340-01	EFFLUENT	SAM	12/26/24 12:08	High	rubina	Dilution
26	P5340-05	INFLUENT	SAM	12/26/24 12:08	High	rubina	Dilution
27	P5356-01	STAND-PIPE	SAM	12/26/24 12:08		rubina	OK
28	P5356-01DUP	STAND-PIPEDUP	DUP	12/26/24 12:08		rubina	OK
29	P5356-01MS	STAND-PIPEMS	MS	12/26/24 12:16		rubina	OK
30	P5356-01MSD	STAND-PIPEMSD	MSD	12/26/24 12:16		rubina	OK
31	CCV3	CCV3	CCV	12/26/24 12:16		rubina	OK
32	CCB3	CCB3	CCB	12/26/24 12:16		rubina	OK
33	P5340-01DL	EFFLUENTDL	SAM	12/26/24 12:38	Report 10x	rubina	Confirms
34	P5340-05DL	INFLUENTDL	SAM	12/26/24 12:38	Report 2x	rubina	Confirms
35	CCV4	CCV4	CCV	12/26/24 12:38		rubina	OK
36	CCB4	CCB4	CCB	12/26/24 12:38		rubina	OK

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. P5340
QUOTE NO.
COC Number 2046251

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: Pretreatment Plant
PROJECT NO.: LOCATION:
PROJECT MANAGER: Todd Holland
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Same PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 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 + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other
☐ EDD FORMAT

ANALYSIS

	1	2	3	4	5	6	7	8	9
	BOD5	TSS	O+G	PO4	Total P	NH3			
PRESERVATIVES	E	E	C	C	C	C			

COMMENTS: ← Specify Preservatives
A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9
1.	Effluent	W		✓	12/18	1230	6	✓	✓	✓	✓	✓	✓			
2.	Aeration Tk 1	W		✓	12/18	1230	1		✓							
3.	Influent	W		✓	12/18	1230	2	✓					✓			
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:
1.	12/18 @1300	1. 1415
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.1°C
Comments: LAB TO FILTER

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CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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