

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

LAB CHRONICLE

OrderID:	Q1316	OrderDate:	2/6/2025 10:57:00 AM
Client:	Tully Environmental, Inc	Project:	Transfer Station-SPDES
Contact:	Dean Devoe	Location:	N41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1316-01	001-WILLETS-PT-BLV D(FEB)	WATER			02/05/25 13:30			02/06/25
			Ammonia	SM4500-NH3		02/07/25	02/07/25 12:33	
			BOD5	SM5210 B			02/06/25 17:30	
			Oil and Grease	1664A			02/07/25 10:25	
			TSS	SM2540 D			02/10/25 10:00	
Q1316-01DL	001-WILLETS-PT-BLV D(FEB)DL	WATER			02/05/25 13:30			02/06/25
			Ammonia	SM4500-NH3		02/07/25	02/07/25 13:34	
Q1316-02	002-35TH-AVE(FEB)	WATER			02/05/25 13:30			02/06/25
			Ammonia	SM4500-NH3		02/07/25	02/07/25 12:33	
			BOD5	SM5210 B			02/06/25 17:30	
			Oil and Grease	1664A			02/07/25 10:25	
			TSS	SM2540 D			02/10/25 10:00	
Q1316-02DL	002-35TH-AVE(FEB)D L	WATER			02/05/25 13:30			02/06/25
			Ammonia	SM4500-NH3		02/07/25	02/07/25 13:34	



SAMPLE DATA

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	02/05/25 13:30
Project:	Transfer Station-SPDES	Date Received:	02/06/25
Client Sample ID:	001-WILLETS-PT-BLVD(FEB)	SDG No.:	Q1316
Lab Sample ID:	Q1316-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	7.40	OR	1	0.045	0.10	mg/L	02/07/25 09:10	02/07/25 12:33	SM 4500-NH3 B plus G-11
BOD5	32.1		1	0.17	2.00	mg/L		02/06/25 17:30	SM 5210 B-16
Oil and Grease	4.90	J	1	0.40	5.00	mg/L		02/07/25 10:25	1664A
TSS	48.3		1	1.00	4.00	mg/L		02/10/25 10:00	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:	Tully Environmental, Inc	Date Collected:	02/05/25 13:30
Project:	Transfer Station-SPDES	Date Received:	02/06/25
Client Sample ID:	001-WILLETS-PT-BLVD(FEB)DL	SDG No.:	Q1316
Lab Sample ID:	Q1316-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	7.10	D	10	0.45	1.00	mg/L	02/07/25 09:10	02/07/25 13:34	SM 4500-NH3 B plus G-11

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

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E = Indicates the reported value is estimated because of the presence of interference.

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N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	02/05/25 13:30
Project:	Transfer Station-SPDES	Date Received:	02/06/25
Client Sample ID:	002-35TH-AVE(FEB)	SDG No.:	Q1316
Lab Sample ID:	Q1316-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	8.00	OR	1	0.045	0.10	mg/L	02/07/25 09:10	02/07/25 12:33	SM 4500-NH3 B plus G-11
BOD5	56.3		1	0.17	2.00	mg/L		02/06/25 17:30	SM 5210 B-16
Oil and Grease	3.60	J	1	0.40	5.00	mg/L		02/07/25 10:25	1664A
TSS	48.3		1	1.00	4.00	mg/L		02/10/25 10:00	SM 2540 D-15

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N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	02/05/25 13:30
Project:	Transfer Station-SPDES	Date Received:	02/06/25
Client Sample ID:	002-35TH-AVE(FEB)DL	SDG No.:	Q1316
Lab Sample ID:	Q1316-02DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Ammonia as N	7.60	D	10	0.45	1.00	mg/L	02/07/25 09:10	02/07/25 13:34	SM 4500-NH3 B plus G-11

Comments: _____

U = Not Detected

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N =Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Tully Environmental, Inc

SDG No.: Q1316

Project: Transfer Station-SPDES

RunNo.: LB134623

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	1	1	100	90-110	02/07/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.99	1	99	90-110	02/07/2025
Sample ID: CCV2 Ammonia as N	mg/L	1	1	100	90-110	02/07/2025
Sample ID: CCV3 Ammonia as N	mg/L	1.1	1	110	90-110	02/07/2025
Sample ID: CCV4 Ammonia as N	mg/L	0.97	1	97	90-110	02/07/2025

Initial and Continuing Calibration Blank Summary

Client: Tully Environmental, Inc

SDG No.: Q1316

Project: Transfer Station-SPDES

RunNo.: LB134623

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	02/07/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025

Preparation Blank Summary

Client: Tully Environmental, Inc

SDG No.: Q1316

Project: Transfer Station-SPDES

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB134610BL BOD5	mg/L	< 0.2000	0.2000	U	0.17	2.0	02/06/2025
Sample ID: LB134620BL Oil and Grease	mg/L	< 2.5000	2.5000	U	0.4	5.0	02/07/2025
Sample ID: LB134646BL TSS	mg/L	1	2.0000	J	1	4	02/10/2025
Sample ID: PB166612BL Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	02/07/2025

Matrix Spike Summary

Client:	Tully Environmental, Inc	SDG No.:	Q1316
Project:	Transfer Station-SPDES	Sample ID:	Q1322-01
Client ID:	MANHOLEMS	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	20.1		0.40	U	20.0	1	101		02/07/2025

Matrix Spike Summary

Client:	Tully Environmental, Inc	SDG No.:	Q1316
Project:	Transfer Station-SPDES	Sample ID:	Q1322-01
Client ID:	MANHOLEMSD	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	20.3		0.40	U	20.0	1	102		02/07/2025

Matrix Spike Summary

Client:	Tully Environmental, Inc	SDG No.:	Q1316
Project:	Transfer Station-SPDES	Sample ID:	Q1325-01
Client ID:	DSN002MS	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	7.70	OR	6.90	OR	1	1	80		02/07/2025

Matrix Spike Summary

Client:	Tully Environmental, Inc	SDG No.:	Q1316
Project:	Transfer Station-SPDES	Sample ID:	Q1325-01
Client ID:	DSN002MSD	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	8.20	OR	6.90	OR	1	1	130	*	02/07/2025

Duplicate Sample Summary

Client: Tully Environmental, Inc	SDG No.: Q1316
Project: Transfer Station-SPDES	Sample ID: Q1316-01
Client ID: 001-WILLETS-PT-BLVD(FEB)DUP	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	32.1		31.1		1	3.04		02/06/2025

Duplicate Sample Summary

Client:	Tully Environmental, Inc	SDG No.:	Q1316
Project:	Transfer Station-SPDES	Sample ID:	Q1316-02
Client ID:	002-35TH-AVE(FEB)DUP	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
TSS	mg/L	+/-5	48.3		47.0		1	2.73		02/10/2025

Duplicate Sample Summary

Client:	Tully Environmental, Inc	SDG No.:	Q1316
Project:	Transfer Station-SPDES	Sample ID:	Q1322-01
Client ID:	MANHOLEMSD	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	20.1		20.3		1	0.99		02/07/2025

Duplicate Sample Summary

Client: Tully Environmental, Inc	SDG No.: Q1316
Project: Transfer Station-SPDES	Sample ID: Q1325-01
Client ID: DSN002DUP	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	6.90	OR	6.90	OR	1	0		02/07/2025

Duplicate Sample Summary

Client: Tully Environmental, Inc	SDG No.: Q1316
Project: Transfer Station-SPDES	Sample ID: Q1325-01
Client ID: DSN002MSD	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	7.70	OR	8.20	OR	1	6		02/07/2025

Laboratory Control Sample Summary

Client: Tully Environmental, Inc

SDG No.: Q1316

Project: Transfer Station-SPDES

Run No.: LB134610

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134610BS							
BOD5	mg/L	198	186		94	1	84.6-115.4	02/06/2025

Laboratory Control Sample Summary

Client: Tully Environmental, Inc

SDG No.: Q1316

Project: Transfer Station-SPDES

Run No.: LB134620

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134620BS							
Oil and Grease	mg/L	20.0	16.7		84	1	78-114	02/07/2025

Laboratory Control Sample Summary

Client: Tully Environmental, Inc

SDG No.: Q1316

Project: Transfer Station-SPDES

Run No.: LB134646

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB134646BS							
TSS	mg/L	550	532		97	1	90-110	02/10/2025

Laboratory Control Sample Summary

Client: Tully Environmental, Inc

SDG No.: Q1316

Project: Transfer Station-SPDES

Run No.: LB134623

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB166612BS							
Ammonia as N	mg/L	1	1.00		100	1	90-110	02/07/2025



RAW DATA

BOD5 LOG

ANALYST: rubin
Inst Id :DO METER
LB :LB134610

SUPERVISOR: Iwona

QC BATCH ID: LB134610

Analysis Date: 02/06/2025

BOD Water: WP111811

MANGANOUS SULFATE SOLUTION: W3103

Starch: W3149

Alkaline Iodide Azide: W3109

Sulfuric acid, 1N: WP110386

Sodium Thiosulfate, 0.025N: W3105

POLYSEED: WP111813

NaOH, 1N: WP111323

GGA: WP111812

IncubatorID: INCUBATOR #3

Chlorine Strips: W3155

GuageID: 0511062

pH Strips: W3140

Zero DO: WP111324

Lab SampleID	Client ID	Bottle No.	VOL. ML	Initial Reading (ML)	Final Reading (ML)	Difference	Average
WINKLER 1	WINKLER 1	1	300	0.0	9.5	9.5	9.5
WINKLER 2	WINKLER 2	2	300	9.8	19.3	9.5	9.5

Meter Calibration1: 9.50 Zero DO Reading1: 0.10 mg/L (<=0.2 Criteria)

Barometric Pressure1: 755 mmHg DO Meter BOD fluid reading for winkler comparison: 9.56

After Incubation

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

Barometric Pressure2: 771 mmHg

QC BATCH ID: LB134610

INCUBATOR TEMP IN(C): 19.9

INCUBATOR TEMP OUT(C): 19.7

TIME IN: 17:30

TIME OUT: 11:45

DATE IN: 02/06/2025

DATE OUT: 02/11/2025

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
LB134610BL	1	No	6.70	N/A	20.90	300	9.55	9.53	0.02	0.02	0.02	
POLYSEED	1					10	9.47	5.24	4.23	0.85	0.69	
POLYSEED	2					15	9.44	4.79	4.65	0.62		
POLYSEED	3					20	9.41	3.28	6.13	0.61		
GGA	1					6	9.47	5.13	4.34	182.5	185.83	
GGA	2					6	9.47	5.02	4.45	188		
GGA	3					6	9.41	4.98	4.43	187		
Q1316-01	1	No	6.90	N/A	20.20	5	9.52	8.60	-	0	32.1	
Q1316-01	2					20	9.46	8.48	-	0		
Q1316-01	3					50	9.39	3.35	6.04	32.1		
Q1316-01	4					150	9.16	0.07	-	0		
Q1316-01DUP	1	No	6.90	N/A	20.20	5	9.53	8.69	-	0	31.14	
Q1316-01DUP	2					20	9.48	8.43	-	0		
Q1316-01DUP	3					50	9.37	3.49	5.88	31.14		
Q1316-01DUP	4					150	9.16	0.07	-	0		
Q1316-02	1	No	6.92	N/A	20.20	5	9.54	8.14	-	0	56.3	
Q1316-02	2					20	9.47	4.21	5.26	68.55		
Q1316-02	3					50	9.31	1.28	8.03	44.04		
Q1316-02	4					150	9.06	0.07	-	0		
Q1325-01	1	No	7.17	N/A	20.00	5	9.53	8.45	-	0	10.71	
Q1325-01	2					20	9.52	8.19	-	0		
Q1325-01	3					50	9.51	6.55	2.96	13.62		
Q1325-01	4					150	9.49	4.90	4.59	7.8		
Q1325-03	1	No	7.17	N/A	20.00	5	9.52	6.67	2.85	129.6	52.09	
Q1325-03	2					20	9.51	6.03	3.48	41.85		
Q1325-03	3					50	9.48	4.87	4.61	23.52		
Q1325-03	4					150	9.46	2.07	7.39	13.4		
Q1325-05	1	No	7.12	N/A	20.00	5	9.52	8.88	-	0	5.58	
Q1325-05	2					20	9.50	8.65	-	0		
Q1325-05	3					50	9.48	7.97	-	0		
Q1325-05	4					150	9.43	5.95	3.48	5.58		

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.

WORKLIST(Hardcopy Internal Chain)

6134610

WorkList Name : BOD5-2-06

WorkList ID : 187551

Department : Wet-Chemistry

Date : 02-06-2025 14:02:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1325-01 C1	DSN002	Water	BOD5	Cool 4 deg C	PSEG04	N41	02/06/2025	SM5210 B
Q1325-03 C1	DSN001	Water	BOD5	Cool 4 deg C	PSEG04	N41	02/06/2025	SM5210 B
Q1325-05 C1	DSN003	Water	BOD5	Cool 4 deg C	PSEG04	N41	02/06/2025	SM5210 B

Date/Time 02/06/2025 14:25
 Raw Sample Received by: NF(wc)
 Raw Sample Relinquished by: M. W. W.

Date/Time 02/06/2025 16:30
 Raw Sample Received by: M. W. W.
 Raw Sample Relinquished by: NF(wc)

WORKLIST(Hardcopy Internal Chain)

LB134610

WorkList Name : bod5-2-6

WorkList ID : 187520

Department : Wet-Chemistry

Date : 02-06-2025 08:39:10

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1316-01 E	001-WILLETTS-PT-BLVD(FEB)	Water	BOD5	Cool 4 deg C	TULL01	N41	02/05/2025	SM5210 B
Q1316-02 E	002-35TH-AVE(FEB)	Water	BOD5	Cool 4 deg C	TULL01	N41	02/05/2025	SM5210 B

Date/Time 02/06/2025 14:00
Raw Sample Received by: NFE(wc)
Raw Sample Relinquished by: M. Lee

Date/Time 02/06/2025 16:00
Raw Sample Received by: J. Miller
Raw Sample Relinquished by: NFE(wc)

Extraction and Analytical Summary Report

Analysis Method: 1664A
Test: Oil and Grease
Run Number: LB134620
Analysis Date: 02/07/2025
BalanceID: WC SC-6
OvenID: EXT OVEN-3

ANALYST: jignesh
REVIEWED BY: Iwona
Extraction Date: 02/07/2025
Extraction IN Time: 08:40
Extraction OUT Time: 09:25
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	LB134620BL	LB134620BL	WATER	1.3	1000	100	2.5674	2.5674	0	2.5675	2.5675	0.0001	0.1
2	LB134620BS	LB134620BS	WATER	1.3	1000	100	3.1456	3.1456	0	3.1623	3.1623	0.0167	16.7
3	Q1168-09	MDL-WATER-03-QT1-2025	WATER	1.3	1000	100	2.8563	2.8563	0	2.8581	2.8581	0.0018	1.8
4	Q1316-01	001-WILLETS-PT-BLVD (FE	WATER	1.3	1000	100	3.0473	3.0473	0	3.0522	3.0522	0.0049	4.9
5	Q1316-02	002-35TH-AVE (FEB)	WATER	1.3	1000	100	3.0750	3.0750	0	3.0786	3.0786	0.0036	3.6
6	Q1322-01	MANHOLE	WATER	1.3	1000	100	3.0505	3.0505	0	3.0506	3.0506	0.0001	0.1
7	Q1322-02	Q1322-01MS	WATER	1.3	1000	100	2.7413	2.7413	0	2.7614	2.7614	0.0201	20.1
8	Q1322-03	Q1322-01MSD	WATER	1.3	1000	100	2.9366	2.9366	0	2.9569	2.9569	0.0203	20.3

QC Batch# LB134620

Test: Oil and Grease

Analysis Date: 02/07/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3177
pH Paper 0-14	M6069
Sodium Sulfate	EP2581
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) In OVEN TEMP1 : 70 °C Dessicator Time In1 : 11:16

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 10:25

Bal Check Time: 08:50 Out OVEN TEMP1: 70 °C Dessicator Time Out1: 12:00

Out Time1: 11:15

After Analysis

0.0020 gram Balance: 0.0021 (0.0018-0.0022) In OVEN TEMP2 : 71 °C Dessicator Time In2 : 13:01

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 12:30

Bal Check Time: 13:37 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 13:35

Out Time2: 13:00

WORKLIST(Hardcopy Internal Chain)

VB 134620

WorkList Name : oil & grease p1316 WorkList ID : 187560 Department : Wet-Chemistry Date : 02-07-2025 08:23:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1168-09	MDL-WATER-03-QT1-2025	Water	Oil and Grease	Conc H2SO4 to pH < 2	CHEM02	QA Of	01/23/2025	1664A
Q1316-01	H 001-WILLETTS-PT-BLVD(FEB)	Water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	N41	02/05/2025	1664A
Q1316-02	H 002-35TH-AVE(FEB)	Water	Oil and Grease	Conc H2SO4 to pH < 2	TULL01	N41	02/05/2025	1664A
Q1322-01	H MANHOLE	Water	Oil and Grease	Conc H2SO4 to pH < 2	SPEC01	N41	02/06/2025	1664A
Q1322-02	Q1322-01MS	Water	Oil and Grease	Conc H2SO4 to pH < 2	SPEC01	N41	02/06/2025	1664A
Q1322-03	Q1322-01MSD	Water	Oil and Grease	Conc H2SO4 to pH < 2	SPEC01	N41	02/06/2025	1664A

Date/Time 02/07/25 08:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 02/07/25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

151-00

Test results

Aquakem 7.2AQ1

Page: 1

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

2/7/2025 13:56

Reviewed by: RM

Instrument ID : Konelab

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.007	0.0	0.149	
ICB1	0.011	0.0	0.015	
CCV1	0.986	0.0	0.146	
CCB1	0.024	0.0	0.016	
RL CHECK	0.103	0.0	0.027	
PB166612BL	0.014	0.0	0.015	
PB166612BS	1.022	0.0	0.151	
Q1316-01	7.394	0.0	1.008	
Q1316-02	7.985	0.0	1.088	Test limit high
Q1322-04	1.271	0.0	0.184	Test limit high
Q1324-01	2.126	0.0	0.299	
Q1325-01	6.907	0.0	0.943	Test limit high
Q1325-01DUP	6.903	0.0	0.942	Test limit high
CCV2	1.007	0.0	0.149	
CCB2	0.044	0.0	0.019	
Q1325-01MS	7.695	0.0	1.049	
Q1325-01MSD	8.197	0.0	1.116	Test limit high
Q1325-03	0.243	0.0	0.046	Test limit high
Q1325-05	7.028	0.0	0.959	
PB166614BL	0.040	0.0	0.019	Test limit high
PB166614BS	0.998	0.0	0.147	
CCV3	1.052	0.0	0.155	
CCB3	0.026	0.0	0.017	
Q1168-09	0.088	0.0	0.025	
Q1168-03	0.087	0.0	0.025	
Q1316-01DLX10	0.711	0.0	0.109	
Q1316-02DLX10	0.760	0.0	0.115	
Q1324-01DLX2	1.178	0.0	0.172	
Q1325-01DLX10	0.668	0.0	0.103	
Q1325-05DLX10	0.703	0.0	0.108	
CCV4	0.967	0.0	0.143	
CCB4	0.012	0.0	0.015	

103% (50-150)
02/07/2025
RM

N 32
Mean 2.102
SD 2.9235
CV% 139.09

Aquakem v. 7.2AQ1

Results from time period:

Fri Feb 07 11:18:10 2025

Fri Feb 07 13:35:03 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-† P		0.0217	mg/l	2/7/2025 11:18:10	
0.1PPM	A	Ammonia-† P		0.1109	mg/l	2/7/2025 11:18:11	
0.2PPM	A	Ammonia-† P		0.1992	mg/l	2/7/2025 11:18:12	
0.4PPM	A	Ammonia-† P		0.3919	mg/l	2/7/2025 11:18:13	
1.0PPM	A	Ammonia-† P		0.9525	mg/l	2/7/2025 11:18:14	
1.3PPM	A	Ammonia-† P		1.3301	mg/l	2/7/2025 11:18:15	
2.0PPM	A	Ammonia-† P		2.027	mg/l	2/7/2025 11:18:16	
ICV1	S	Ammonia-† P		1.0072	mg/l	2/7/2025 12:22:38	
ICB1	S	Ammonia-† P		0.0113	mg/l	2/7/2025 12:22:40	
CCV1	S	Ammonia-† P		0.9864	mg/l	2/7/2025 12:22:42	
CCB1	S	Ammonia-† P		0.0237	mg/l	2/7/2025 12:22:43	
RL CHECK	S	Ammonia-† P		0.1026	mg/l	2/7/2025 12:22:46	
PB166612BL	S	Ammonia-† P		0.0142	mg/l	2/7/2025 12:22:47	
PB166612BS	S	Ammonia-† P		1.0224	mg/l	2/7/2025 12:33:21	
Q1316-01	S	Ammonia-† P		7.3941	mg/l	2/7/2025 12:33:26	
Q1316-02	S	Ammonia-† P		7.9848	mg/l	2/7/2025 12:33:27	
Q1322-04	S	Ammonia-† P		1.2715	mg/l	2/7/2025 12:33:28	
Q1324-01	S	Ammonia-† P		2.1259	mg/l	2/7/2025 12:33:29	
Q1325-01	S	Ammonia-† P		6.9074	mg/l	2/7/2025 12:33:30	
Q1325-01DUP	S	Ammonia-† P		6.9033	mg/l	2/7/2025 12:33:32	
CCV2	S	Ammonia-† P		1.0068	mg/l	2/7/2025 12:44:05	
CCB2	S	Ammonia-† P		0.0437	mg/l	2/7/2025 12:44:07	
Q1325-01MS	S	Ammonia-† P		7.6953	mg/l	2/7/2025 12:44:08	
Q1325-01MSD	S	Ammonia-† P		8.1966	mg/l	2/7/2025 12:44:09	
Q1325-03	S	Ammonia-† P		0.2432	mg/l	2/7/2025 12:44:10	
Q1325-05	S	Ammonia-† P		7.0284	mg/l	2/7/2025 12:44:11	
PB166614BL	S	Ammonia-† P		0.0402	mg/l	2/7/2025 12:44:12	
PB166614BS	S	Ammonia-† P		0.9982	mg/l	2/7/2025 12:44:14	
CCV3	S	Ammonia-† P		1.0523	mg/l	2/7/2025 12:52:32	
CCB3	S	Ammonia-† P		0.026	mg/l	2/7/2025 12:52:34	
Q1168-09	S	Ammonia-† P		0.0877	mg/l	2/7/2025 13:25:56	
Q1168-03	S	Ammonia-† P		0.0872	mg/l	2/7/2025 13:25:58	
Q1316-01DLX10	S	Ammonia-† P		0.7106	mg/l	2/7/2025 13:34:55	
Q1316-02DLX10	S	Ammonia-† P		0.7603	mg/l	2/7/2025 13:34:56	
Q1324-01DLX2	S	Ammonia-† P		1.1777	mg/l	2/7/2025 13:34:59	
Q1325-01DLX10	S	Ammonia-† P		0.6678	mg/l	2/7/2025 13:35:00	
Q1325-05DLX10	S	Ammonia-† P		0.7028	mg/l	2/7/2025 13:35:01	
CCV4	S	Ammonia-† P		0.9672	mg/l	2/7/2025 13:35:02	
CCB4	S	Ammonia-† P		0.0124	mg/l	2/7/2025 13:35:03	

Calibration results

Aquakem 7.2AQ1

Page: 1

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

Reviewed by : RM Instrument ID : Konelab

2/7/2025 11:35

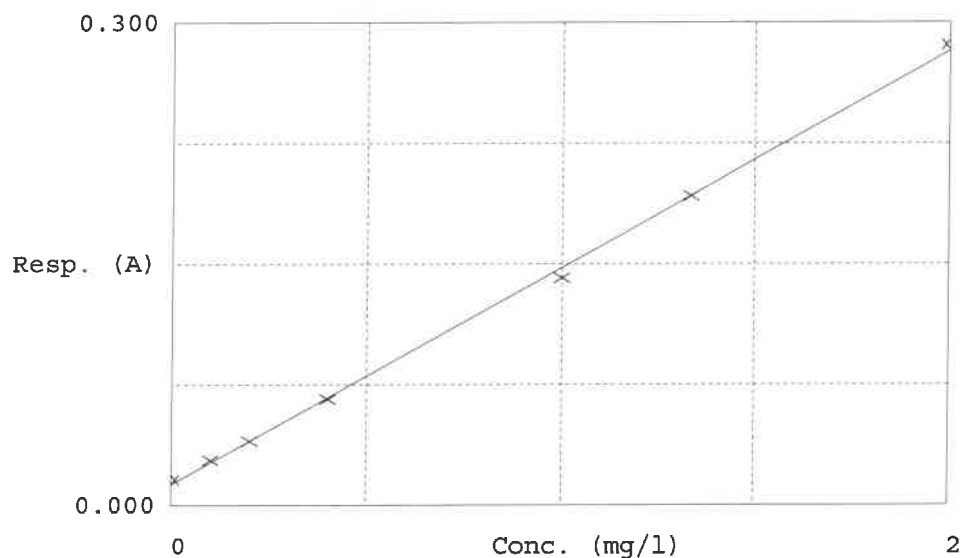
Test Ammonia-N

Accepted 2/7/2025 11:23

Factor 7.431
Bias 0.013

Coeff. of det. 0.998918

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.016	0.0217	0.0000	10.9
2	NH3-2PPM	0.028	0.1109	0.1000	-0.4
3	NH3-2PPM	0.040	0.1992	0.2000	-2.0
4	NH3-2PPM	0.066	0.3919	0.4000	-4.8
5	NH3-2PPM	0.141	0.9525	1.0000	2.3
6	NH3-2PPM	0.192	1.3301	1.3333	1.4
7	NH3-2PPM	0.286	2.0270	2.0000	

02/07/2025
RM

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 02/07/2025

Run Number: LB134646

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 02/07/2025 14:00 **TEMP1 OUT:** 104 °C 02/07/2025 15:00
TEMP2 IN: 105 °C 02/07/2025 15:30 **TEMP2 OUT:** 104 °C 02/07/2025 16:30
TEMP3 IN: 104 °C 02/10/2025 10:00 **TEMP3 OUT:** 103 °C 02/10/2025 11:30
TEMP4 IN: 104 °C 02/10/2025 12:00 **TEMP4 OUT:** 103 °C 02/10/2025 13:35

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	LB134646BL	LB134646BL	1.4856	1.4856	100	1.4857	1.4857	1.4857	0.0001	1
2	LB134646BS	LB134646BS	1.8963	1.8963	100	1.9495	1.9495	1.9495	0.0532	532
3	Q1300-02	COMP	1.4691	1.4691	50	1.5536	1.5536	1.5536	0.0845	1690
4	Q1316-01	001-WILLETTS-PT-BLVD (FEB)	1.4740	1.4740	300	1.4885	1.4885	1.4885	0.0145	48.3
5	Q1316-02	002-35TH-AVE (FEB)	1.4928	1.4928	300	1.5073	1.5073	1.5073	0.0145	48.3
6	Q1316-02DUP	002-35TH-AVE (FEB) DUP	1.4776	1.4776	300	1.4917	1.4917	1.4917	0.0141	47
7	Q1322-04	MANHOLE	1.3685	1.3685	1000	1.3940	1.3940	1.3940	0.0255	25.5
8	Q1325-01	DSN002	1.3578	1.3578	1000	1.3672	1.3672	1.3672	0.0094	9.4
9	Q1325-03	DSN001	1.4914	1.4914	1000	1.5093	1.5093	1.5093	0.0179	17.9
10	Q1325-05	DSN003	1.3631	1.3631	3000	1.3825	1.3825	1.3825	0.0194	6.5
11	Q1326-01	TOWER-1	1.4664	1.4664	2000	1.4750	1.4750	1.4750	0.0086	4.3
12	Q1326-02	TOWER-2	1.4599	1.4599	2000	1.4676	1.4676	1.4676	0.0077	3.9

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 02/07/2025

Run Number: LB134646

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 02/07/2025 14:00 **TEMP1 OUT:** 104 °C 02/07/2025 15:00
TEMP2 IN: 105 °C 02/07/2025 15:30 **TEMP2 OUT:** 104 °C 02/07/2025 16:30
TEMP3 IN: 104 °C 02/10/2025 10:00 **TEMP3 OUT:** 103 °C 02/10/2025 11:30
TEMP4 IN: 104 °C 02/10/2025 12:00 **TEMP4 OUT:** 103 °C 02/10/2025 13:35

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

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 = $\frac{D}{A} \times 1000 \times 1000$

WORKLIST(Hardcopy Internal Chain)

VB 134646

WorkList Name : TSS Q1234

WorkList ID : 187596

Department : Wet-Chemistry

Date : 02-10-2025 08:17:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1300-02 B	COMP	Water	TSS	Cool 4 deg C	ARAM01	D11	02/05/2025	SM2540 D
Q1316-01 F	001-WILLETS-PT-BLVD(FEB)	Water	TSS	Cool 4 deg C	TULL01	N41	02/05/2025	SM2540 D
Q1316-02 F	002-35TH-AVE(FEB)	Water	TSS	Cool 4 deg C	TULL01	N41	02/05/2025	SM2540 D
Q1322-04 F	MANHOLE	Water	TSS	Cool 4 deg C	SPEC01	N41	02/06/2025	SM2540 D
Q1325-01 F	DSN002	Water	TSS	Cool 4 deg C	PSEG04	N41	02/06/2025	SM2540 D
Q1325-03 H	DSN001	Water	TSS	Cool 4 deg C	PSEG04	N41	02/06/2025	SM2540 D
Q1325-05	DSN003 B, T, G	Water	TSS	Cool 4 deg C	PSEG04	N41	02/06/2025	SM2540 D
Q1326-01 D, B	TOWER-1	Water	TSS	Cool 4 deg C	PSEG04	N41	02/06/2025	SM2540 D
Q1326-02 B, C	TOWER-2	Water	TSS	Cool 4 deg C	PSEG04	N41	02/06/2025	SM2540 D

Date/Time 02/10/25 08:25

Raw Sample Received by: 186000

Raw Sample Relinquished by: CH SH

Date/Time 02/10/25

Raw Sample Received by: CH SH

Raw Sample Relinquished by: 186000

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

SDG No : N/A

Start Digest Date: 02/07/2025 Time : 09:10 Temp : 150 °C

Matrix : WATER

End Digest Date: 02/07/2025 Time : 10:10 Temp : 160 °C

Pipette ID : WC

if batch 02/07/2025 10:30 150°C } RM
02/07/2025 11:30 160°C }

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: 12

Standard Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP111420
MS/MSD SPIKE SOL.	1.0ML	WP111419
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP111419
MDL	0.8ML	WP111832

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	0.5-2.0ML	WP111318
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
WP111604,

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/07/2025 11:45	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB166612BL	PBW612	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB166612BS	LCS612	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1168-09	MDL-WATER-03-QT1-2025	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1316-01	001-WILLETS-PT-BLVD(FEB)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1316-02	002-35TH-AVE(FEB)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1322-04	MANHOLE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1324-01	WATER TREATMENT DISCHARGE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-01	DSN002	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-01DUP	DSN002DUP	50	50	<2	N/A	Negative	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1325-01MS	DSN002MS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-01MSD	DSN002MSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-03	DSN001	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1325-05	DSN003	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ammonia-2-7

WorkList ID : 187561

Department : Distillation

Date : 02-07-2025 08:20:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1168-09	MDL-WATER-03-QT1-2025	Water	Ammonia	Conc H2SO4 to pH < 2	CHEM02	QA Of	01/23/2025	SM4500-NH3
Q1316-01	001-WILLETS-PT-BLVD(FEB)	Water	Ammonia	Conc H2SO4 to pH < 2	TULL01	N41	02/05/2025	SM4500-NH3
Q1316-02	002-35TH-AVE(FEB)	Water	Ammonia	Conc H2SO4 to pH < 2	TULL01	N41	02/05/2025	SM4500-NH3
Q1322-04	MANHOLE	Water	Ammonia	Conc H2SO4 to pH < 2	SPEC01	N41	02/06/2025	SM4500-NH3
Q1324-01	WATER TREATMENT DISCHAF	Water	Ammonia	Conc H2SO4 to pH < 2	VERI01	D11	02/06/2025	SM4500-NH3
Q1325-01	DSN002	Water	Ammonia	Conc H2SO4 to pH < 2	PSEG04	N41	02/06/2025	SM4500-NH3
Q1325-03	DSN001	Water	Ammonia	Conc H2SO4 to pH < 2	PSEG04	N41	02/06/2025	SM4500-NH3
Q1325-05	DSN003	Water	Ammonia	Conc H2SO4 to pH < 2	PSEG04	N41	02/06/2025	SM4500-NH3

Date/Time 02/07/2025 08:25
 Raw Sample Received by: RM (w/c)
 Raw Sample Relinquished by: SP (De)

Date/Time 02/07/2025 09:50
 Raw Sample Received by: SP (De)
 Raw Sample Relinquished by: RM (w/c)

Instrument ID: DO METER

Daily Analysis Runlog For Sequence/QC Batch ID # LB134610

Review By	rubina	Review On	2/11/2025 12:58:53 PM
Supervise By	Iwona	Supervise On	2/11/2025 1:57:56 PM
SubDirectory	LB134610	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	WP111811,W3149,WP110386,W3103,W3109,W3105,WP111813,WP111812,WP111323		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134610BL	LB134610BL	MB	02/06/25 17:30		rubina	OK
2	LB134610BS	LB134610BS	LCS	02/06/25 17:30		rubina	OK
3	Q1316-01	001-WILLETS-PT-BL	SAM	02/06/25 17:30		rubina	OK
4	Q1316-01DUP	001-WILLETS-PT-BL	DUP	02/06/25 17:30		rubina	OK
5	Q1316-02	002-35TH-AVE(FEB)	SAM	02/06/25 17:30		rubina	OK
6	Q1325-01	DSN002	SAM	02/06/25 17:30		rubina	OK
7	Q1325-03	DSN001	SAM	02/06/25 17:30		rubina	OK
8	Q1325-05	DSN003	SAM	02/06/25 17:30		rubina	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB134620

Review By	jignesh	Review On	2/7/2025 2:26:53 PM
Supervise By	Iwona	Supervise On	2/7/2025 2:52:19 PM
SubDirectory	LB134620	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	W3177,M6069,EP2581,WP110826,NA,NA,WP100827,NA,WP100828		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB134620BL	LB134620BL	MB	02/07/25 10:25		jignesh	OK
2	LB134620BS	LB134620BS	LCS	02/07/25 10:25		jignesh	OK
3	Q1168-09	MDL-WATER-03-QT1	SAM	02/07/25 10:25	ADD 0.25 ML WP100827	jignesh	OK
4	Q1316-01	001-WILLETTS-PT-BLV	SAM	02/07/25 10:25		jignesh	OK
5	Q1316-02	002-35TH-AVE(FEB)	SAM	02/07/25 10:25		jignesh	OK
6	Q1322-01	MANHOLE	SAM	02/07/25 10:25		jignesh	OK
7	Q1322-02	Q1322-01MS	MS	02/07/25 10:25		jignesh	OK
8	Q1322-03	Q1322-01MSD	MSD	02/07/25 10:25		jignesh	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB134623

Review By	rubina	Review On	2/10/2025 8:55:56 AM
Supervise By	Iwona	Supervise On	2/10/2025 9:22:59 AM
SubDirectory	LB134623	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP111829		
ICV Standard	WP111831		
CCV Standard	WP111830		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111420		
Chk Standard	WP110416,WP111745,WP111385,WP111660,WP111832		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	02/07/25 11:18		rubina	OK
2	0.1PPM	0.1PPM	CAL2	02/07/25 11:18		rubina	OK
3	0.2PPM	0.2PPM	CAL3	02/07/25 11:18		rubina	OK
4	0.4PPM	0.4PPM	CAL4	02/07/25 11:18		rubina	OK
5	1.0PPM	1.0PPM	CAL5	02/07/25 11:18		rubina	OK
6	1.3PPM	1.3PPM	CAL6	02/07/25 11:18		rubina	OK
7	2.0PPM	2.0PPM	CAL7	02/07/25 11:18		rubina	OK
8	ICV1	ICV1	ICV	02/07/25 12:22		rubina	OK
9	ICB1	ICB1	ICB	02/07/25 12:22		rubina	OK
10	CCV1	CCV1	CCV	02/07/25 12:22		rubina	OK
11	CCB1	CCB1	CCB	02/07/25 12:22		rubina	OK
12	RL	RL	SAM	02/07/25 12:22		rubina	OK
13	PB166612BL	PB166612BL	MB	02/07/25 12:22		rubina	OK
14	PB166612BS	PB166612BS	LCS	02/07/25 12:33		rubina	OK
15	Q1316-01	001-WILLETS-PT-BL	SAM	02/07/25 12:33	High	rubina	Dilution
16	Q1316-02	002-35TH-AVE(FEB)	SAM	02/07/25 12:33	High	rubina	Dilution
17	Q1322-04	MANHOLE	SAM	02/07/25 12:33		rubina	OK
18	Q1324-01	WATER TREATMENT	SAM	02/07/25 12:33	High	rubina	Dilution

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB134623

Review By	rubina	Review On	2/10/2025 8:55:56 AM
Supervise By	Iwona	Supervise On	2/10/2025 9:22:59 AM
SubDirectory	LB134623	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP111829		
ICV Standard	WP111831		
CCV Standard	WP111830		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111420		
Chk Standard	WP110416,WP111745,WP111385,WP111660,WP111832		

19	Q1325-01	DSN002	SAM	02/07/25 12:33	High	rubina	Dilution
20	Q1325-01DUP	DSN002DUP	DUP	02/07/25 12:33		rubina	OK
21	CCV2	CCV2	CCV	02/07/25 12:44		rubina	OK
22	CCB2	CCB2	CCB	02/07/25 12:44		rubina	OK
23	Q1325-01MS	DSN002MS	MS	02/07/25 12:44		rubina	OK
24	Q1325-01MSD	DSN002MSD	MSD	02/07/25 12:44		rubina	OK
25	Q1325-03	DSN001	SAM	02/07/25 12:44		rubina	OK
26	Q1325-05	DSN003	SAM	02/07/25 12:44	High	rubina	Dilution
27	PB166614BL	PB166614BL	MB	02/07/25 12:44		rubina	OK
28	PB166614BS	PB166614BS	LCS	02/07/25 12:44		rubina	OK
29	CCV3	CCV3	CCV	02/07/25 12:52		rubina	OK
30	CCB3	CCB3	CCB	02/07/25 12:52		rubina	OK
31	Q1168-09	MDL-WATER-03-QT1	SAM	02/07/25 13:25		rubina	OK
32	Q1168-03	MDL-SOIL-03-QT1-20	SAM	02/07/25 13:25		rubina	OK
33	Q1316-01DL	001-WILLETTS-PT-BLV	SAM	02/07/25 13:34	Report 10X	rubina	Confirms
34	Q1316-02DL	002-35TH-AVE(FEB)D	SAM	02/07/25 13:34	Report 10X	rubina	Confirms
35	Q1324-01DL	WATER TREATMENT	SAM	02/07/25 13:34	Report 2X	rubina	Confirms
36	Q1325-01DL	DSN002DL	SAM	02/07/25 13:35	Report 10X	rubina	Confirms
37	Q1325-05DL	DSN003DL	SAM	02/07/25 13:35	Report 10X	rubina	Confirms
38	CCV4	CCV4	CCV	02/07/25 13:35		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB134623

Review By	rubina	Review On	2/10/2025 8:55:56 AM
Supervise By	Iwona	Supervise On	2/10/2025 9:22:59 AM
SubDirectory	LB134623	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP111829		
ICV Standard	WP111831		
CCV Standard	WP111830		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP111420		
Chk Standard	WP110416,WP111745,WP111385,WP111660,WP111832		

39	CCB4	CCB4	CCB	02/07/25 13:35		rubina	OK
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Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB134646

Review By	jignesh	Review On	2/10/2025 1:05:20 PM
Supervise By	Iwona	Supervise On	2/10/2025 1:09:12 PM
SubDirectory	LB134646	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	LB134646BL	LB134646BL	MB	02/10/25 10:00		jignesh	OK
2	LB134646BS	LB134646BS	LCS	02/10/25 10:00		jignesh	OK
3	Q1300-02	COMP	SAM	02/10/25 10:00		jignesh	OK
4	Q1316-01	001-WILLETS-PT-BL	SAM	02/10/25 10:00		jignesh	OK
5	Q1316-02	002-35TH-AVE(FEB)	SAM	02/10/25 10:00		jignesh	OK
6	Q1316-02DUP	002-35TH-AVE(FEB)	DUP	02/10/25 10:00		jignesh	OK
7	Q1322-04	MANHOLE	SAM	02/10/25 10:00		jignesh	OK
8	Q1325-01	DSN002	SAM	02/10/25 10:00		jignesh	OK
9	Q1325-03	DSN001	SAM	02/10/25 10:00		jignesh	OK
10	Q1325-05	DSN003	SAM	02/10/25 10:00		jignesh	OK
11	Q1326-01	TOWER-1	SAM	02/10/25 10:00		jignesh	OK
12	Q1326-02	TOWER-2	SAM	02/10/25 10:00		jignesh	OK

Prep Standard - Chemical Standard Summary

Order ID : Q1316

Test : Ammonia,BOD5,Oil and Grease,TSS

Prepbatch ID : PB166612,

Sequence ID/Qc Batch ID: LB134610,LB134620,LB134623,LB134646,

Standard ID :

EP2581,WP100827,WP100828,WP110149,WP110150,WP110335,WP110386,WP110416,WP110826,WP111317,WP111318,WP111323,WP111325,WP111385,WP111419,WP111420,WP111660,WP111745,WP111811,WP111812,WP111813,WP111829,WP111830,WP111831,WP111832,WP99896,

Chemical ID :

E3551,M5673,M6069,M6121,W1992,W1993,W2606,W2653,W2654,W2666,W2700,W2783,W2845,W2858,W2898,W2979,W3059,W3103,W3105,W3109,W3112,W3113,W3132,W3133,W3144,W3149,W3155,W3174,W3177,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2581	02/03/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Rajesh Parikh 02/03/2025
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
114	hexavalent chromium color reagent	WP100827	02/02/2023	02/09/2023	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 02/02/2023
<u>FROM</u> 0.25000gram of W2979 + 50.00000ml of W2783 = Final Quantity: 50.000 ml								

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
153	Ammonia Stock Std. (1000 ppm)	WP110149	10/11/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 10/14/2024
<u>FROM</u> 3.81900gram of W1993 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1895	Ammonia Stock Std, 1000PPM-SS	WP110150	10/11/2024	04/08/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych 10/14/2024
<u>FROM</u> 3.81900gram of W1992 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1597	0.04 N H2SO4	WP110335	10/22/2024	04/22/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
<u>FROM</u>		1.00000ml of M5673 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml						



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1841	Sulfuric Acid, 1N	WP110386	10/24/2024	04/24/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 10/24/2024
<u>FROM</u> 2.80000ml of M5673 + 97.20000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
740	sodium nitroferricyanide for ammonia	WP110416	10/25/2024	04/25/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 10/25/2024
<u>FROM</u> 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
229	1:1 HCL	WP110826	11/22/2024	05/13/2025	Jignesh Parikh	None	None	Iwona Zarych
								11/22/2024

FROM 500.00000ml of M6121 + 500.00000ml of W3112 = Final Quantity: 1.000 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1796	NaOH, 0.1N	WP111317	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_S CALE_7 (WC SC-6)	None	Iwona Zarych
								01/09/2025

FROM 4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1571	Sodium hydroxide, 1N	WP111323	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1494	BORATE BUFFER	WP111325	01/09/2025	07/09/2025	Rubina Mughal	None	None	Iwona Zarych
								01/09/2025

FROM 100.00000L of W3112 + 9.50000gram of W2700 + 88.00000ml of WP111317 = Final Quantity: 100.000 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
290	Phenol reagent for Ammonia	WP111385	01/13/2025	07/13/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych
								01/13/2025

FROM 3.20000gram of W3113 + 8.30000gram of W2858 + 88.80000ml of W3112 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1322	Ammonia Intermediate Std, 50PPM	WP111419	01/16/2025	02/16/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
<p>(WC)</p> <p><u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP110149 = Final Quantity: 100.000 ml</p>								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP111420	01/16/2025	02/16/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/16/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP110150 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
635	EDTA BUFFER FOR AMMONIA	WP111660	01/28/2025	07/28/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCS-7)	None	Iwona Zarych 01/28/2025
<u>FROM</u> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
289	Sodium Hypochlorite for Ammonia	WP111745	02/03/2025	07/31/2025	Rubina Mughal	None	None	Iwona Zarych 02/03/2025
<u>FROM</u> 50.00000ml of W3112 + 50.00000ml of W3174 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
127	BOD Dilution fluid	WP111811	02/06/2025	02/07/2025	Rubina Mughal	None	None	Iwona Zarych
								02/07/2025

FROM 18.00000L of W3112 + 3.00000PILLOW of W3144 = Final Quantity: 18.000 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
129	Glutamic acid-glucose mix for BOD	WP111812	02/06/2025	02/07/2025	Rubina Mughal	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych
								02/07/2025

FROM 0.15000gram of W2653 + 0.15000gram of W2654 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
128	polyseed seed control	WP111813	02/06/2025	02/07/2025	Rubina Mughal	None	None	Iwona Zarych
								02/07/2025

FROM 1.00000PILLOW of W3059 + 300.00000ml of WP111811 = Final Quantity: 300.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
275	Ammonia Calibration Std. (2 ppm)	WP111829	02/07/2025	02/08/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3	Iwona Zarych
							(WC)	02/07/2025

FROM 48.00000ml of W3112 + 2.00000ml of WP111419 = Final Quantity: 50.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
285	Ammonia CCV Std. (1 ppm)	WP111830	02/07/2025	02/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 02/07/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP111419 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
286	Ammonia ICV Std. (1 ppm)	WP111831	02/07/2025	02/08/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 02/07/2025
<u>FROM</u> 49.00000ml of W3112 + 1.00000ml of WP111420 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3906	Ammonia MDL-LOD-LOQ spiking solution -5ppm	WP111832	02/07/2025	02/08/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 02/07/2025
FROM 45.00000ml of W3112 + 5.00000ml of WP111419 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
11	Sodium hydroxide absorbing solution 0.25 N	WP99896	11/15/2022	05/15/2023	Jignesh Parikh	WETCHEM_S CALE_4 (WC SC-4)	None	Iwona Zarych 11/15/2022
<u>FROM</u> 21.00000L of W2606 + 210.00000gram of W2845 = Final Quantity: 21.000 L								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	09/21/2023 / mohan	09/05/2023 / mohan	M5673

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	WL13B	04/08/2025	04/08/2015 / apatel	04/08/2015 / apatel	W1992

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	XE09B	04/08/2025	04/08/2015 / apatel	04/08/2015 / apatel	W1993

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AC156212500 / GLUTAMIC ACID BIOCHEM REG, 250G	A0405990	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2653

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	D16-500 / DEXTROSE ANHYDROUS ACS REAGENT, 500G(New)	186122A	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2654

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3568-1 / Sodium Borate, 500 gms	2019111354	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2700

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	0000263246	06/17/2023	12/23/2020 / ketankumar	12/23/2020 / ketankumar	W2783

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	21C2456604	01/31/2024	03/30/2022 / JIGNESH	06/24/2021 / apatel	W2845

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	M13H048	01/07/2026	07/07/2021 / apatel	07/07/2021 / apatel	W2858

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supelco	90157 / Cyanide Standard, 1000ppm from Supelco	HC03107133	06/30/2023	01/24/2022 / apatel	01/24/2022 / apatel	W2898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazine	MKCR6636	12/09/2027	12/09/2022 / lwona	12/09/2022 / lwona	W2979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	136742-80 / POLYSEED	152305	05/30/2025	02/15/2024 / Rubina	10/18/2023 / lwona	W3059

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	4620-32 / MANGANOUS SULFATE SOLUTION-364	2403J02	03/31/2026	04/22/2024 / lwona	04/22/2024 / lwona	W3103

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	4403S13	09/30/2025	04/22/2024 / lwona	04/22/2024 / lwona	W3105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL04100-4 / Alkaline Iodide Azide, 1 L	1405D67	04/30/2026	05/23/2024 / lwona	05/23/2024 / lwona	W3109

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / lwona	07/08/2024 / lwona	W3113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / lwona	07/26/2024 / lwona	W3132

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140476 / Test Paper,PH Short Range 9.0/10.0	L23	08/22/2029	08/22/2024 / lwona	08/22/2024 / lwona	W3133

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	1486266 / BOD Nutrient Buffer Pillows, 6 mL concentrate to make 6 L, 50/pk	A4169	06/30/2029	11/20/2024 / rubina	10/01/2024 / lwona	W3144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / lwona	10/16/2024 / lwona	W3149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140730 / TEST PAPER,POT.IOD-STRCH,P K100,CS12	14-860	12/02/2029	12/02/2024 / lwona	12/02/2024 / lwona	W3155

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9416-1 / Sodium Hypochlorite 500 ml	2501J28	07/31/2025	01/24/2025 / lwona	01/24/2025 / lwona	W3174

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	08/22/2025	02/03/2025 / jignesh	01/31/2025 / jignesh	W3177

Certificate of Analysis



Date of Release: 12/18/2013

Product: Ammonium Chloride GR ACS

Catalog No.: AX1270 all
size codes

Grade: Meets ACS Specifications

CAS #: 12125-02-9

Country of Origin: India

FW: 53.49

Lot No.: WL13B



Characteristic	Requirement		Results	UOM
	Minimum	Maximum		
Assay (argentometric)	99.5		99.9	%
Calcium (Ca)		0.001	0.0001	%
Form	White crystals		White crystals	
Heavy metals (as Pb)		5	5	ppm
Identification	To pass test		Passes	
Insoluble matter		0.005	0.002	%
Iron (Fe)		2	2	ppm
Loss on drying (105 C)		0.5	0.21	%
Magnesium (Mg)		5	0.6	ppm
pH of a 5% solution at 25 C	4.5	5.5	4.76	
Phosphate (PO4)		2	2	ppm
Residue after ignition		0.01	0.002	%
Sulfate (SO4)		0.002	0.002	%

Joe Schoellkopff

Quality Control Manager

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Certificate of Analysis



Date of Release: 5/12/2014

Product: Ammonium Chloride GR ACS

Catalog No.: AX1270 all
size codes

Grade: Meets ACS Specifications

CAS #: 12125-02-9

Country of Origin: India

FW: 53.49

Lot No.: XE09B



Characteristic	Requirement		Results	UOM
	Minimum	Maximum		
Assay (argentometric)	99.5		99.8	%
Calcium (Ca)		0.001	0.0001	%
Form	White crystals		White crystals	
Heavy metals (as Pb)		5	5	ppm
Identification	To pass test		Passes	
Insoluble matter		0.005	0.002	%
Iron (Fe)		2	2	ppm
Loss on drying (105 C)		0.5	0.22	%
Magnesium (Mg)		5	0.7	ppm
pH of a 5% solution at 25 C	4.5	5.5	4.95	
Phosphate (PO4)		2	2	ppm
Residue after ignition		0.01	0.002	%
Sulfate (SO4)		0.002	0.002	%

Joe Schoellkopf

Quality Control Manager

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Certificate of Analysis

1.19533.0500 Cyanide standard solution traceable to SRM from NIST $K_2[Zn(CN)_4]$ in H_2O
1000 mg/l CN Certipur®
Batch HC03107133

Batch Values

Concentration	β (CN ⁻)	1002	mg/l
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Determination method: Argentometric titration.

The content of this solution was determined with silver nitrate standard solution (article number 1.09081) standardized against volumetric standard sodium chloride (article number 1.02406). The expanded measurement uncertainty is $\pm 0.7\%$ ($k=2$ coverage factor for 95% coverage probability). The certified value is traceable to primary standard NIST SRM 999c (NIST: National Institute of Standards and Technology, USA) by means of volumetric standard sodium chloride, measured in the accredited calibration laboratory of Merck KGaA, Darmstadt, Germany in accordance to DIN EN ISO/IEC 17025.

Date of release (DD.MM.YYYY) 02.07.2020

Minimum shelf life (DD.MM.YYYY) 30.06.2023

Ayfer Yildirim

Responsible laboratory manager quality control

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Acetone
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 0000263246
Manufactured Date: 2020/06/17
Expiration Date: 2023/06/17
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.7
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0000 ppm	0.1000
Substances Reducing Permanganate	Passes Test	PT
Titration Acid (µeq/g)	<= 0.3	0.1
Titration Base (µeq/g)	<= 0.6	< 0.1
Water (H ₂ O)	<= 0.5 %	0.3
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	5

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

W2858 Received by AP on 07/07/2021

Product No.: 33213
Product: Phenol, ACS, 99+%, stab.
Lot No.: M13H048

Test	Limits	Results
Assay	99.0 % min	99.8 %
Freezing point	40.5°C min	40.5 °C
Clarity of solution	To pass test	Passes
Residue after evaporation	0.05 % max	< 0.05 %
Water	0.5 % max	0.2 %

Retest date: January 7, 2026

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W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS, 99.0-102.0%


Lot No.: W12F013

Test	Limits	Results
Assay	99.0 - 102.0 %	99.67 %
Insoluble	0.01 % max	0.0079 %
Chloride	0.02 % max	Not detected
Sulfate	To pass test	Passes test
Aqueous solubility	To pass test	Passes test
Limit on Ferricyanide	To pass test	Passes test
Limit on Ferrocyanide	To pass test	Passes test


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Version 0
Molecular weight 147.13
Molecular formula C5 H9 N O4
CAS No 56-86-0
Linear formula HO2CCH2CH2CH(NH2)CO2H
Flash point (°C)

Certificate of Analysis

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Catalog Number	15621	Quality Test / Release Date	13 March 2019
Lot Number	A0405990	Suggested Retest Date	March 2022
Description	L(+)-Glutamic acid, 99%		
Country of Origin	CHINA		
Declaration of Origin	plant		

Origin Comment	The product is made by fermentation of sugar molasses
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Result Name	Specifications	Test Value
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms	Conforms
Titration with NaOH	98.5 to 100.5 % (On dried substance)	99.32 % (On dried substance)
Loss on drying	≤0.5 % (105°C, 3 hrs)	0.002 % (105°C, 3 hrs)
Heavy metals (as Pb)	≤10 ppm	≤10 ppm
Sulfated ash	≤0.1 %	0.08 %
Other amino acids	not detectable	not detectable
Specific optical rotation	+30.5° to +32.5° (20°C, 589 nm) (on dried substance)	+32° (20°C, 589 nm) (on dried substance)
Specific optical rotation	(c=10, 2N HCl)	(c=10, 2N HCl)
Chloride (Cl)	≤200 ppm	≤200 ppm
Iron (Fe)	≤30 ppm	≤10 ppm
Sulfate (SO4)	≤300 ppm	≤200 ppm
Ammonium (NH4)	≤200 ppm	≤200 ppm
Arsenic oxide (As2O3)	≤1 ppm	≤1 ppm



A handwritten signature in black ink, which appears to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 24 January 2020

Acros Organics

ENA23, zone 1, nr 1350, Janssen Pharmaceuticaaan 3a, B-2440 Geel, Belgium

Tel +32 14/57.52.11 - Fax +32 14/59.34.34 Internet: <http://www.acros.com>

1 Reagent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329



CERTIFICATE OF ANALYSIS

PO BOX 130549 Spring, TX 77393
Phone: (281) 298-9410 Fax: (281) 298-9411

W 3059
REC. 10/18/23 12

FINISHED PRODUCT, LOT NUMBER, MFG. /EXP DATE:

PolySeed® • Part No. P-110 • Lot 152305 • Mfg. Date: 05/2023 • Exp. Date: 05/2025

FORMULATION:

The formulation for this product contains a range of naturally occurring microorganisms, which are known to be non-pathogenic to man or animals.

VIABLE COUNT, FINAL TEST RESULT:

The product has been fully tested in accordance with Finished Product Specifications and contains a minimum viable count of 4.00×10^9 cfu/g.

GLUCOSE/GLUTAMIC-ACID RESULTS:

Tested results within acceptable range 198 ± 30.5 mg/L (167.5 - 228.5 mg/L). GGA Lot# L257-09 – Average Test Result: 203.4

See www.polyseed.com for details.

SEED CONTROL FACTOR:

Tested results within acceptable range 0.6 – 1.0 see www.polyseed.com for details

SALMONELLA TEST RESULT:

The product has been shown to be Salmonella negative using procedures recommended in the Microbiology Laboratory Guidebook, published by the USDA Food Safety and Inspection Service.

The purpose of this document is to assure that the Finished Product conforms to the above specification.

Signature: _____

Quality Control Department

Date: 05/15/2023

POLYSEED.Ref.1.19

Revised Jan 23

InterLab®
International Laboratory Supply



Certificate Of Analysis



Date of Release: 11/14/2019

W2700 Recived by AP on 3/11/2020

Name: **Sodium Borate, Decahydrate**
ACS

Item No: **SX0355 All Sizes**

Lot / Batch No: **2019111354**

Country of Origin: **India**

Item	Specifications	Analysis
Assay (Na ₂ B ₄ O ₇ • 10H ₂ O)	99.5 - 105.0%	101.7%
Calcium (Ca)	0.005% max.	0.003%
Chloride (Cl)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy Metals (as Pb)	0.001% max.	<0.001%
Insoluble Matter	0.005% max.	0.002%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.01 M solution at 25C	9.15 - 9.20	9.17
Phosphate (PO ₄)	0.001% max.	<0.001%
Sulfate (SO ₄)	0.005% max.	<0.005%

Joe Schoellkopf

Quality Control Manager

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EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation

400 Summit Drive
Burlington, MA 01803
U.S.A.

Form number: 00005624CA, Rev. 2.0



Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

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Catalog Number	D16	Quality Test / Release Date	03/19/2019
Lot Number	186122A		
Description	DEXTROSE, ANHYDROUS, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Mar/2022
Chemical Origin	Organic - Plant		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White, granular powder
TITRATABLE ACID	MEQ/G	<= 0.002	<0.002
STARCH		= PASS TEST	pass test
SPECIFIC ROTATION @ 25 C	DEGREES (+ OR -)	Inclusive Between +52.5 - +53.0	53.0
SULFATE & SULFITE	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
CHLORIDE	%	<= 0.01	<0.01
IGNITION RESIDUE	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
HEAVY METALS (as Pb)	ppm	<= 5	<5
LOSS ON DRYING @ 105 C	%	<= 0.2	<0.2
INSOLUBLE MATTER	%	<= 0.005	0.002

Jerisa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



**PRODUCTOS
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MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
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www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

 **avantor**™



Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium



Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in cursive script that reads 'James Ethier'.
Jamie Ethier
Vice President Global Quality



Certificate of Analysis

Product information

Product	pH-Fix 0.3-2.3
REF	92180
LOT	80A0441
Expiration date:	29.02.2028
Date of examination:	23.01.2024
Gradation:	pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.



Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™



R → 16/13/24
Met dig

M 6121

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	< 1
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

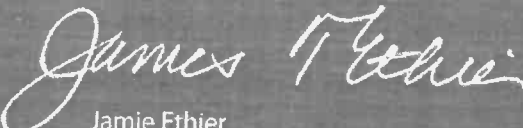
Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier

Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

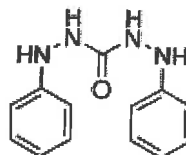
C₁₃H₁₄N₄O

Formula Weight:

242.28 g/mol


Quality Release Date:

02 JUN 2022



Certificate of Analysis

Test	Specification	Result
Appearance (Color)	Conforms to Requirements	Pink
Off-White to Pink, Light Purple or Tan		
Appearance (Form)	Powder or Chunks	Powder
Melting Point	173.0 - 176.0 °C	173.0 °C
Infrared Spectrum	Conforms to Structure	Conforms
Residue on ignition (Ash)	≤ 0.05 %	0.01 %
15 minutes, 800 Degrees Celsius		
Solubility	Pass	Pass
Sensitivity Test	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





Certificate of Analysis

Manganous Sulfate Solution, 364 g/L**Lot Number:** 2403J02**Product Number:** 4620**Manufacture Date:** MAR 15, 2024**Expiration Date:** MAR 2026

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Manganous Sulfate Monohydrate	10034-96-5	Reagent
Sulfuric Acid	7664-93-9	ACS

Test	Specification	Result
Appearance	Pink liquid	Passed
Assay (by Refractive Index)	360-368 g/L	367 g/L

Specification	Reference
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	ASTM (D 888 A)
Manganous Sulfate Solution	APHA (4500-O E)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	APHA (4500-O E)
Manganous Sulfate Solution	APHA (4500-O F)
Manganous Sulfate Solution	APHA (4500-O D)
Manganous Sulfate Solution	APHA (4500-O C)
Manganous Sulfate Solution	APHA (4500-O C)
Manganous Sulfate Solution	EPA (360.2)
Manganous Sulfate Solution	EPA (360.2)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
4620-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Jose Pena (03/15/2024)

Operations Manager

This document is designed to comply with ISO Guide 31 "Reference Materials --
Contents of Certificates and Labels."

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 4403S13

Product Number: 7900

Manufacture Date: MAR 29, 2024

Expiration Date: SEP 2025

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS
Organic Preservative	Proprietary	
Sodium Carbonate	497-19-8	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Potassium Iodate/Starch)	0.02499-0.02501 N at 20°C	0.02501 N at 20°C	136

Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-CI B)
Standard Sodium Thiosulfate Titrant	APHA (4500-O C)
Standard Sodium Thiosulfate Titrant, 0.025 M	APHA (5530 C)
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7900-1	4 L natural poly	18 months
7900-16	500 mL natural poly	18 months
7900-1CT	4 L Cubitainer®	18 months
7900-32	1 L natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Paul Brandon (03/29/2024)

Production Manager

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Certificate of Analysis

Alkaline-Iodide-Azide, Pomeroy Formulation for Dissolved Oxygen (DO) Analysis

Lot Number: 1405D67

Product Number: 535

Manufacture Date: APR 05, 2024

Expiration Date: APR 2026

This solution is intended for use with samples with high Dissolved Oxygen content (above 15 mg/L) and for samples with high concentrations of organic material.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Iodide	7681-82-5	ACS
Sodium Hydroxide	1310-73-2	ACS
Sodium Azide	26628-22-8	Reagent

Test	Specification	Result
Appearance	Colorless liquid	Passed
Free Iodine	To Pass Test	Passed

Specification	Reference
Alkaline Iodide-Sodium Azide Solution II	ASTM (D 888 A)
Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.	

Part Number	Size / Package Type	Shelf Life (Unopened Container)
535-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



Heidi J Green (04/05/2024)
Operations Manager

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Certificate of Analysis



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$	Molecular Weight	372.24

TEST	SPECIFICATION		RESULT
	MIN	MAX	
ASSAY (DRIED BASIS)	99.0	101.0 %	99.5 %
pH OF A 5% SOLUTION @ 25°C	4.0	6.0	4.6
LOSS ON DRYING	8.7	11.4 %	8.90 %
CALCIUM (Ca)	NO PRECIPITATE IS FORMED		NO PRECIPITATE IS FORMED
ELEMENTAL IMPURITIES:			.
NICKEL (Ni)	AS REPORTED		<0.3 ppm
CHROMIUM (Cr)	AS REPORTED		<0.3 ppm
NITRILOTRIACETIC ACID[n[(HOCOCH ₂) ₃ N]		0.1 %	<0.10 %
IDENTIFICATION A	MATCHES REFERENCE		MATCHES REFERENCE
IDENTIFICATION B	RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION		RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION
IDENTIFICATION C	MEETS THE REQUIREMENTS FOR SODIUM		MEETS THE REQUIREMENTS FOR SODIUM
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			10-JUL-2026
DATE OF MANUFACTURE			11-JUL-2023
APPEARANCE			WHITE CRYSTALLINE POWDER
RESIDUAL SOLVENTS		AS REPORTED	NO RESIDUAL SOLVENTS PRESENT
MONOGRAPH EDITION			USP 2024

Certificate of Analysis Results Entered By:

CACEVEDO
Charmian Acevedo
22-MAY-24 08:12:30

Certificate of Analysis Results Approved By:

GHERRERA
Genaro Herrera
22-MAY-24 12:32:01

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.



An ISO 9001 Certified Company

Loveland, CO 80539

(970) 669-3050

Certificate of Analysis

This is a Component of 1486266 / LOT A4169

PRODUCT: BOD Nutrient Buffer Pillows

PRODUCT NUMBER: 1486227

LOT NUMBER: A4169

MANUFACTURE DATE: 06/24/2024

DATE OF ANALYSIS: 07/03/2024

TEST	SPECIFICATIONS	RESULTS
Calcium Concentration of a diluted pillow	0.93 to 1.29 ppm	0.960 ppm
Magnesium Concentration of a diluted pillow	0.35 to 0.48 ppm	0.390 ppm
pH in a 6 L of DI water	7.1 to 7.6	7.37
Ammonia Concentration of a diluted pillow	0.57 to 0.79 ppm	0.593 ppm
Iron Concentration of a diluted pillow	0.27 to 0.36 ppm	0.311 ppm
Sterility	To Pass	Passed
Phosphorus Concentration of a diluted pillow	7.6 to 10.3 ppm	8.32 ppm
Five Day Change in Dissolved Oxygen Concentration	-0.2 to 0.2 ppm	0.03 ppm

The expiration date is Jun 2029

Certified by: *Scott Als*

Analytical Services Chemist



Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62

Product Number: 8000

Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Starch, soluble	9005-84-9	ACS
Salicylic Acid	69-72-7	ACS

Test	Specification	Result
Appearance	White translucent liquid	Passed
Suitability for Use	Colorless (Iodine absent) - Blue (Iodine present)	Passed

Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-CI B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-CI C)
Starch Indicator	EPA (345.1)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
8000-1	4 L natural poly	24 months
8000-16	500 mL natural poly	24 months
8000-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

A handwritten signature in blue ink that reads "Paul Brandon". The signature is fluid and cursive, with the first name "Paul" and last name "Brandon" clearly distinguishable.

Paul Brandon (08/28/2024)
Production Manager

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Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2501J28**Product Number:** 7495.5**Manufacture Date:** JAN 17, 2025**Expiration Date:** JUL 2025

This solution is subject to slow decomposition upon exposure to air. Keep container tightly capped. Refrigeration may improve stability.
When used in the Phenate method for Ammonia, APHA recommends replacing this solution about every 2 months.

Name	CAS#	Grade
Water	7732-18-5	Commercial
Sodium Hypochlorite	7681-52-9	Commercial

Test	Specification	Result	NIST SRM#
Appearance	Colorless to greenish-yellow liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	4.75-5.25 % (w/w) Cl ₂	5.17 % (w/w) Cl ₂	136

Specification	Reference
Sodium Hypochlorite, 5%	APHA (4500-NH3 F)
Sodium Hypochlorite	ASTM (D 4785)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7495.5-1	4 L black poly	6 months
7495.5-16	500 mL amber poly	6 months
7495.5-32	1 L amber poly	6 months
7495.5-8	250 mL amber poly	6 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (01/17/2025)
Operations Manager

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n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

avantor™



Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Tully Environmental Inc.
ADDRESS: 57 Seaview Blvd
CITY: Pt Washington STATE: NY ZIP: 11050
ATTENTION: D Dene
PHONE: 718 446 2000 FAX: 718 446 1484

CLIENT PROJECT INFORMATION

PROJECT NAME: Transfer Station SPOES
PROJECT NO.: 252113 LOCATION:
PROJECT MANAGER:
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 _____

1. Cu Pb 2. BOD5 3. TSS 4. Hg 5. BTEX 6. OLG 7. Ammonia 8. 9.

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	001 Willets Pt Blvd (Feb)	W		X	2/5	130	10	X	X	X	X	X	X				
2.	002 35th Ave (Feb)	W		X	2/5	130	10	X	X	X	X	X	X				
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: 1. DDene	DATE/TIME: 2/5/25	RECEIVED BY: 1. _____	Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP 49°C
RELINQUISHED BY SAMPLER: 2. FedEx	DATE/TIME: 1-6-25 1042	RECEIVED BY: 2. _____	Comments: _____
RELINQUISHED BY SAMPLER: 3. _____	DATE/TIME: _____	RECEIVED BY: 3. _____	Page _____ of CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other Shipment Complete <input type="checkbox"/> YES <input type="checkbox"/> NO



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1316	TULL01	Order Date : 2/6/2025 10:57:00 AM	Project Mgr :
Client Name : Tully Environmental, Inc		Project Name : Transfer Station-SPDES	Report Type : Results Only
Client Contact : Dean Devoe		Receive DateTime : 2/6/2025 10:42:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Tully Environmental, Inc		Purchase Order :	Hard Copy Date :
Invoice Contact : Dean Devoe			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1316-01	001-WILLETS-PT-BLVD(FEB)	Water	02/05/2025	13:30	VOC-BTEX		624.1	1 Bus. Day	10 Days
Q1316-02	002-35TH-AVE(FEB)	Water	02/05/2025	13:30	VOC-BTEX		624.1	1 Bus. Day	I

Relinquished By :

Date / Time : 1/6/25 11:35

Received By :

Date / Time : 1/6/25 11:35

Storage Area : VOA Refridgerator Room