

Cover Page

Order ID : Q2085

Project ID : USACE NAB Sediment Project 25

Client : US Army Corp of Engineers

Lab Sample Number

Q2085-01
Q2085-02
Q2085-03
Q2085-04
Q2085-05
Q2085-06
Q2085-07
Q2085-08

Client Sample Number

SC-4-SED-051525
SC-3-SED-051525
SC-2-SED-051525
SC-1-SED-051625
SC-1-SED-051625MS
SC-1-SED-051625MSD
SC-COMP-SED-051625
DUPE-1-SC

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 6/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

US Army Corp of Engineers

Project Name: USACE NAB Sediment Project 25

Project # N/A

Order ID # Q2085

Test Name: Ammonia, Phosphorus, Total, TKN, TOC

A. Number of Samples and Date of Receipt:

8 Solid samples were received on 05/20/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Ammonia, Mercury, Metals Group2, Metals ICP-Group, Phosphorus, Total, TKN and TOC. This data package contains results for Ammonia, Phosphorus, Total, TKN, TOC.

C. Analytical Techniques:

The analysis of TOC was based on method 9060A, The analysis of Phosphorus-Total was based on method 365.3, The analysis of TKN was based on method SM4500 N Org B or C and The analysis of Ammonia was based on method SM4500-NH3.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (SC-4-SED-051525MS) analysis met criteria for all samples except for Phosphorus, Total due to matrix interference.

The Matrix Spike Duplicate (SC-4-SED-051525MSD) analysis met criteria for all samples except for Phosphorus, Total due to matrix interference.

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

The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- INORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2085

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/03/2025

LAB CHRONICLE

OrderID:	Q2085	OrderDate:	5/20/2025 11:40:33 AM
Client:	US Army Corp of Engineers	Project:	USACE NAB Sediment Project 25
Contact:	Kendall Rosenberg	Location:	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2085-01	SC-4-SED-051525	SOIL			05/15/25 15:50			05/20/25
			Ammonia	SM4500-NH3		05/21/25	05/22/25 12:01	
			Phosphorus, Total	365.3		05/28/25	05/28/25 15:37	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/22/25	05/22/25 16:01	
			TOC	9060A			05/23/25 10:01	
Q2085-02	SC-3-SED-051525	SOIL			05/15/25 16:21			05/20/25
			Ammonia	SM4500-NH3		05/21/25	05/22/25 12:01	
			Phosphorus, Total	365.3		05/28/25	05/28/25 15:39	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/22/25	05/22/25 16:01	
			TOC	9060A			05/23/25 10:11	
Q2085-03	SC-2-SED-051525	SOIL			05/15/25 17:04			05/20/25
			Ammonia	SM4500-NH3		05/21/25	05/22/25 12:01	
			Phosphorus, Total	365.3		05/28/25	05/28/25 15:39	

LAB CHRONICLE

Q2085-04	SC-1-SED-051625	SOIL	TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/22/25	05/22/25 16:01	05/20/25
			TOC	9060A		05/23/25 10:25	
			05/16/25 10:08				
			Ammonia	SM4500-NH3	06/06/25	06/06/25 11:48	
			Phosphorus, Total	365.3	06/06/25	06/06/25 11:16	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	06/06/25	06/06/25 14:29	
Q2085-07	SC-COMP-SED-051625	SOIL	TOC	9060A		06/06/25 09:19	05/20/25
			05/16/25 10:45				
			Ammonia	SM4500-NH3	05/21/25	05/22/25 12:01	
			Phosphorus, Total	365.3	05/28/25	05/28/25 15:40	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/22/25	05/22/25 16:01	
			TOC	9060A		05/23/25 11:11	
Q2085-08	DUPE-1-SC	SOIL	05/16/25 12:00				05/20/25
			Phosphorus, Total	365.3	05/28/25	05/28/25 15:41	
			Ammonia	SM4500-NH3	05/21/25	05/22/25 12:01	

LAB CHRONICLE

TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/22/25	05/22/25 16:01
TOC	9060A		05/23/25 11:33



SAMPLE DATA

Report of Analysis

Client:	US Army Corp of Engineers	Date Collected:	05/15/25 15:50
Project:	USACE NAB Sediment Project 25	Date Received:	05/20/25
Client Sample ID:	SC-4-SED-051525	SDG No.:	Q2085
Lab Sample ID:	Q2085-01	Matrix:	SOIL
		% Solid:	75.7

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	16.0		1	2.80	5.10	6.40	mg/Kg	05/21/25 10:40	05/22/25 12:01	SM 4500-NH3 B plus G-11
Phosphorus, Total	62.3		1	0.38	1.63	3.27	mg/Kg	05/28/25 11:45	05/28/25 15:37	365.3
TKN	222		1	12.2	16.2	32.4	mg/Kg	05/22/25 08:50	05/22/25 16:01	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	4370		1	28.9	50.0	250	mg/Kg		05/23/25 10:01	9060A

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:	US Army Corp of Engineers	Date Collected:	05/15/25 16:21
Project:	USACE NAB Sediment Project 25	Date Received:	05/20/25
Client Sample ID:	SC-3-SED-051525	SDG No.:	Q2085
Lab Sample ID:	Q2085-02	Matrix:	SOIL
		% Solid:	73.8

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	11.9		1	2.90	5.30	6.60	mg/Kg	05/21/25 10:40	05/22/25 12:01	SM 4500-NH3 B plus G-11
Phosphorus, Total	58.4		1	0.39	1.66	3.32	mg/Kg	05/28/25 11:45	05/28/25 15:39	365.3
TKN	249		1	12.2	16.3	32.6	mg/Kg	05/22/25 08:50	05/22/25 16:01	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	1570		1	28.9	50.0	250	mg/Kg		05/23/25 10:11	9060A

Comments: _____

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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

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OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	US Army Corp of Engineers	Date Collected:	05/15/25 17:04
Project:	USACE NAB Sediment Project 25	Date Received:	05/20/25
Client Sample ID:	SC-2-SED-051525	SDG No.:	Q2085
Lab Sample ID:	Q2085-03	Matrix:	SOIL
		% Solid:	79.3

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	2.80	J	1	2.60	4.70	5.80	mg/Kg	05/21/25 10:40	05/22/25 12:01	SM 4500-NH3 B plus G-11
Phosphorus, Total	36.3		1	0.36	1.55	3.09	mg/Kg	05/28/25 11:45	05/28/25 15:39	365.3
TKN	139		1	11.7	15.6	31.2	mg/Kg	05/22/25 08:50	05/22/25 16:01	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	1360		1	28.9	50.0	250	mg/Kg		05/23/25 10:25	9060A

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	US Army Corp of Engineers	Date Collected:	05/16/25 10:08
Project:	USACE NAB Sediment Project 25	Date Received:	05/20/25
Client Sample ID:	SC-1-SED-051625	SDG No.:	Q2085
Lab Sample ID:	Q2085-04	Matrix:	SOIL
		% Solid:	70.5

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	13.0		1	3.10	5.70	7.10	mg/Kg	06/06/25 08:00	06/06/25 11:48	SM 4500-NH3 B plus G-11
Phosphorus, Total	30.3		1	0.40	1.70	3.41	mg/Kg	06/06/25 09:20	06/06/25 11:16	365.3
TKN	493		1	13.1	17.4	34.8	mg/Kg	06/06/25 08:25	06/06/25 14:29	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	6380		1	28.9	50.0	250	mg/Kg		06/06/25 09:19	9060A

Comments: _____

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LOQ = Limit of Quantitation

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LOD = Limit of Detection

D = Dilution

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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:	US Army Corp of Engineers	Date Collected:	05/16/25 10:45
Project:	USACE NAB Sediment Project 25	Date Received:	05/20/25
Client Sample ID:	SC-COMP-SED-051625	SDG No.:	Q2085
Lab Sample ID:	Q2085-07	Matrix:	SOIL
		% Solid:	73.5

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	8.10		1	2.90	5.20	6.50	mg/Kg	05/21/25 10:40	05/22/25 12:01	SM 4500-NH3 B plus G-11
Phosphorus, Total	36.8		1	0.39	1.68	3.37	mg/Kg	05/28/25 11:45	05/28/25 15:40	365.3
TKN	275		1	12.5	16.7	33.3	mg/Kg	05/22/25 08:50	05/22/25 16:01	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	4830		1	28.9	50.0	250	mg/Kg		05/23/25 11:11	9060A

Comments: _____

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LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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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:	US Army Corp of Engineers	Date Collected:	05/16/25 00:00
Project:	USACE NAB Sediment Project 25	Date Received:	05/20/25
Client Sample ID:	DUPE-1-SC	SDG No.:	Q2085
Lab Sample ID:	Q2085-08	Matrix:	SOIL
		% Solid:	76.2

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	15.7		1	2.80	5.10	6.40	mg/Kg	05/21/25 10:40	05/22/25 12:01	SM 4500-NH3 B plus G-11
Phosphorus, Total	54.2		1	0.37	1.61	3.22	mg/Kg	05/28/25 11:45	05/28/25 15:41	365.3
TKN	159		1	12.2	16.2	32.5	mg/Kg	05/22/25 08:50	05/22/25 16:01	SM4500-N Org C-11 plus NH3 B plus G-11
TOC	3780		1	28.9	50.0	250	mg/Kg		05/23/25 11:33	9060A

Comments: _____

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

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

OR = Over Range

N =Spiked sample recovery not within control limits



QC RESULT SUMMARY



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

Initial and Continuing Calibration Verification

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB135882

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	1	1	100	90-110	05/22/2025
Sample ID: CCV1 Ammonia as N	mg/L	1	1	100	90-110	05/22/2025
Sample ID: CCV2 Ammonia as N	mg/L	1	1	100	90-110	05/22/2025
Sample ID: CCV3 Ammonia as N	mg/L	1.1	1	110	90-110	05/22/2025

Initial and Continuing Calibration Verification

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB135888

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: TKN	ICV1 mg/L	4.8	5	96	90-110	05/22/2025
Sample ID: TKN	CCV1 mg/L	4.7	5	94	90-110	05/22/2025
Sample ID: TKN	CCV2 mg/L	4.8	5	96	90-110	05/22/2025
Sample ID: TKN	CCV3 mg/L	4.7	5	94	90-110	05/22/2025

Initial and Continuing Calibration Verification

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB135894

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
TOC		mg/L	1030	1000	103	90-110	03/14/2025
Sample ID:	CCV1						
TOC		mg/L	1060	1000	106	90-110	05/23/2025
Sample ID:	CCV2						
TOC		mg/L	1050	1000	105	90-110	05/23/2025

Initial and Continuing Calibration Verification

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB135933

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.507	0.50	101	90-110	05/28/2025
Sample ID: CCV1 Phosphorus, Total	mg/L	0.501	0.50	100	90-110	05/28/2025
Sample ID: CCV2 Phosphorus, Total	mg/L	0.504	0.50	101	90-110	05/28/2025
Sample ID: CCV3 Phosphorus, Total	mg/L	0.492	0.50	98	90-110	05/28/2025

Initial and Continuing Calibration Verification

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB136025

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: TOC	ICV1	mg/L	1030	1000	103	90-110	03/14/2025
Sample ID: TOC	CCV1	mg/L	1010	1000	101	90-110	06/06/2025
Sample ID: TOC	CCV2	mg/L	1010	1000	101	90-110	06/06/2025

Initial and Continuing Calibration Verification

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB136037

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.492	0.50	98	90-110	06/06/2025
Sample ID: CCV1 Phosphorus, Total	mg/L	0.504	0.50	101	90-110	06/06/2025
Sample ID: CCV2 Phosphorus, Total	mg/L	0.515	0.50	103	90-110	06/06/2025

Initial and Continuing Calibration Verification

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB136039

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	1.1	1	110	90-110	06/06/2025
Sample ID: CCV1 Ammonia as N	mg/L	1	1	100	90-110	06/06/2025
Sample ID: CCV2 Ammonia as N	mg/L	1.1	1	110	90-110	06/06/2025
Sample ID: CCV3 Ammonia as N	mg/L	1.1	1	110	90-110	06/06/2025
Sample ID: CCV4 Ammonia as N	mg/L	1.1	1	110	90-110	06/06/2025
Sample ID: CCV5 Ammonia as N	mg/L	1	1	100	90-110	06/06/2025

Initial and Continuing Calibration Verification

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB136043

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TKN	mg/L	4.7	5	94	90-110	06/06/2025
Sample ID: CCV1 TKN	mg/L	4.7	5	94	90-110	06/06/2025
Sample ID: CCV2 TKN	mg/L	4.6	5	92	90-110	06/06/2025
Sample ID: CCV3 TKN	mg/L	4.8	5	96	90-110	06/06/2025

Initial and Continuing Calibration Blank Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB135882

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	05/22/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	05/22/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	05/22/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	05/22/2025

Initial and Continuing Calibration Blank Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB135888

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	05/22/2025
Sample ID: CCB1 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	05/22/2025
Sample ID: CCB2 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	05/22/2025
Sample ID: CCB3 TKN	mg/L	< 0.2500	0.2500	U	0.11	0.5	05/22/2025

Initial and Continuing Calibration Blank Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB135894

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	03/14/2025
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	05/23/2025
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	05/23/2025

Initial and Continuing Calibration Blank Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB135933

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	0.006	0.0250	J	0.0045	0.05	05/28/2025
Sample ID: CCB1 Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	05/28/2025
Sample ID: CCB2 Phosphorus, Total	mg/L	0.008	0.0250	J	0.0045	0.05	05/28/2025
Sample ID: CCB3 Phosphorus, Total	mg/L	0.006	0.0250	J	0.0045	0.05	05/28/2025

Initial and Continuing Calibration Blank Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB136025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	03/14/2025
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	06/06/2025
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	06/06/2025

Initial and Continuing Calibration Blank Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB136037

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	06/06/2025
Sample ID: CCB1 Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	06/06/2025
Sample ID: CCB2 Phosphorus, Total	mg/L	< 0.0250	0.0250	U	0.0045	0.05	06/06/2025

Initial and Continuing Calibration Blank Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB136039

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	0.04	0.0500	J	0.030	0.1	06/06/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	06/06/2025
Sample ID: CCB2 Ammonia as N	mg/L	0.04	0.0500	J	0.030	0.1	06/06/2025
Sample ID: CCB3 Ammonia as N	mg/L	0.045	0.0500	J	0.030	0.1	06/06/2025
Sample ID: CCB4 Ammonia as N	mg/L	0.037	0.0500	J	0.030	0.1	06/06/2025
Sample ID: CCB5 Ammonia as N	mg/L	0.034	0.0500	J	0.030	0.1	06/06/2025

Initial and Continuing Calibration Blank Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

RunNo.: LB136043

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TKN	mg/L	0.15	0.2500	J	0.11	0.5	06/06/2025
Sample ID: CCB1 TKN	mg/L	0.16	0.2500	J	0.11	0.5	06/06/2025
Sample ID: CCB2 TKN	mg/L	0.14	0.2500	J	0.11	0.5	06/06/2025
Sample ID: CCB3 TKN	mg/L	0.15	0.2500	J	0.11	0.5	06/06/2025

Preparation Blank Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135894BLS TOC	mg/Kg	< 125.0000	125.0000	U	28.9	250	05/23/2025
Sample ID: LB136025BLS TOC	mg/Kg	< 125.0000	125.0000	U	28.9	250	06/06/2025
Sample ID: PB168096BL TKN	mg/Kg	< 12.5000	12.5000	U	9.4	25	05/22/2025
Sample ID: PB168128BL Ammonia as N	mg/Kg	< 2.5000	2.5000	U	2.2	5	05/22/2025
Sample ID: PB168183BL Phosphorus, Total	mg/Kg	0.4	1.2500	J	0.29	2.5	05/28/2025
Sample ID: PB168315BL Phosphorus, Total	mg/Kg	< 1.2500	1.2500	U	0.29	2.5	06/06/2025
Sample ID: PB168327BL TKN	mg/Kg	< 12.5000	12.5000	U	9.4	25	06/06/2025
Sample ID: PB168328BL Ammonia as N	mg/Kg	< 2.5000	2.5000	U	2.2	5	06/06/2025

Matrix Spike Summary

Client:	US Army Corp of Engineers	SDG No.:	Q2085
Project:	USACE NAB Sediment Project 25	Sample ID:	Q2085-01
Client ID:	SC-4-SED-051525MS	Percent Solids for Spike Sample:	75.7

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/Kg	75-125	76.0		16.0		63.5	1	94		05/22/2025
Phosphorus, Total	mg/Kg	90-110	93.2	D	62.3		32.4	2	95		05/28/2025
TKN	mg/Kg	75-125	505		222		320	1	88		05/22/2025

Matrix Spike Summary

Client:	US Army Corp of Engineers	SDG No.:	Q2085
Project:	USACE NAB Sediment Project 25	Sample ID:	Q2085-01
Client ID:	SC-4-SED-051525MSD	Percent Solids for Spike Sample:	75.7

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/Kg	75-125	81.4		16.0		65.4	1	100		05/22/2025
Phosphorus, Total	mg/Kg	90-110	93.0	D	62.3		32.4	2	95		05/28/2025
TKN	mg/Kg	75-125	538		222		320	1	99		05/22/2025

Matrix Spike Summary

Client:	US Army Corp of Engineers	SDG No.:	Q2085
Project:	USACE NAB Sediment Project 25	Sample ID:	Q2085-04
Client ID:	SC-1-SED-051625MS	Percent Solids for Spike Sample:	70.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/Kg	90-110	62.7		30.3		33.8	1	96		06/06/2025
Ammonia as N	mg/Kg	75-125	78.5		13.0		67.5	1	97		06/06/2025
TKN	mg/Kg	75-125	792	OR	493		350	1	85		06/06/2025

Matrix Spike Summary

Client:	US Army Corp of Engineers	SDG No.:	Q2085
Project:	USACE NAB Sediment Project 25	Sample ID:	Q2085-04
Client ID:	SC-1-SED-051625MSD	Percent Solids for Spike Sample:	70.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/Kg	90-110	63.0		30.3		33.8	1	97		06/06/2025
Ammonia as N	mg/Kg	75-125	81.9		13.0		69.5	1	99		06/06/2025
TKN	mg/Kg	75-125	826	OR	493		350	1	95		06/06/2025

Matrix Spike Summary

Client:	US Army Corp of Engineers	SDG No.:	Q2085
Project:	USACE NAB Sediment Project 25	Sample ID:	Q2085-08
Client ID:	DUPE-1-SCMS	Percent Solids for Spike Sample:	76.2

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	4850		3780		1000	1	107		05/23/2025

Matrix Spike Summary

Client:	US Army Corp of Engineers	SDG No.:	Q2085
Project:	USACE NAB Sediment Project 25	Sample ID:	Q2085-08
Client ID:	DUPE-1-SCMSD	Percent Solids for Spike Sample:	76.2

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/Kg	75-125	4660		3780		1000	1	88		05/23/2025

Duplicate Sample Summary

Client:	US Army Corp of Engineers	SDG No.:	Q2085
Project:	USACE NAB Sediment Project 25	Sample ID:	Q2085-01
Client ID:	SC-4-SED-051525DUP	Percent Solids for Spike Sample:	75.7

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/Kg	+/-20	16.0		15.8		1	1		05/22/2025
TKN	mg/Kg	+/-20	222		234		1	5		05/22/2025
Phosphorus, Total	mg/Kg	+/-20	62.3		61.9		1	0.64		05/28/2025

Duplicate Sample Summary

Client: US Army Corp of Engineers	SDG No.: Q2085
Project: USACE NAB Sediment Project 25	Sample ID: Q2085-01
Client ID: SC-4-SED-051525MSD	Percent Solids for Spike Sample: 75.7

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Ammonia as N	mg/Kg	+/-20	76.0		81.4		1	7		05/22/2025
TKN	mg/Kg	+/-20	505		538		1	6		05/22/2025
Phosphorus, Total	mg/Kg	+/-20	93.2	D	93.0	D	2	0.21		05/28/2025

Duplicate Sample Summary

Client: US Army Corp of Engineers Project: USACE NAB Sediment Project 25 Client ID: SC-1-SED-051625DUP	SDG No.: Q2085 Sample ID: Q2085-04 Percent Solids for Spike Sample: 70.5
---	---

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phosphorus, Total	mg/Kg	+/-20	30.3		30.9		1	1.96		06/06/2025
Ammonia as N	mg/Kg	+/-20	13.0		12.0		1	8		06/06/2025
TKN	mg/Kg	+/-20	493		513		1	4		06/06/2025

Duplicate Sample Summary

Client: US Army Corp of Engineers	SDG No.: Q2085
Project: USACE NAB Sediment Project 25	Sample ID: Q2085-04
Client ID: SC-1-SED-051625MSD	Percent Solids for Spike Sample: 70.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phosphorus, Total	mg/Kg	+/-20	62.7		63.0		1	0.48		06/06/2025
Ammonia as N	mg/Kg	+/-20	78.5		81.9		1	4		06/06/2025
TKN	mg/Kg	+/-20	792	OR	826	OR	1	4		06/06/2025

Duplicate Sample Summary

Client: US Army Corp of Engineers	SDG No.: Q2085
Project: USACE NAB Sediment Project 25	Sample ID: Q2085-08
Client ID: DUPE-1-SCMSD	Percent Solids for Spike Sample: 76.2

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/Kg	+/-20	4850		4660		1	4		05/23/2025

Laboratory Control Sample Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

Run No.: LB135894

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135894BSS							
TOC	mg/Kg	1000	1070		107	1	90-110	05/23/2025

Laboratory Control Sample Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

Run No.: LB136025

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136025BSS							
TOC	mg/Kg	1000	997		100	1	90-110	06/06/2025

Laboratory Control Sample Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

Run No.: LB135888

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168096BS							
TKN	mg/Kg	250	240		96	1	90-110	05/22/2025

Laboratory Control Sample Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

Run No.: LB135882

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168128BS							
Ammonia as N	mg/Kg	50	50.9		102	1	90-110	05/22/2025

Laboratory Control Sample Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

Run No.: LB135933

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168183BS							
Phosphorus, Total	mg/Kg	25.0	24.8		99	1	90-110	05/28/2025

Laboratory Control Sample Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

Run No.: LB136037

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168315BS							
Phosphorus, Total	mg/Kg	25.0	25.0		100	1	90-110	06/06/2025

Laboratory Control Sample Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

Run No.: LB136043

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168327BS							
TKN	mg/Kg	250	242		97	1	90-110	06/06/2025

Laboratory Control Sample Summary

Client: US Army Corp of Engineers

SDG No.: Q2085

Project: USACE NAB Sediment Project 25

Run No.: LB136039

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168328BS							
Ammonia as N	mg/Kg	50	53.9		108	1	90-110	06/06/2025



RAW DATA

LB13

Test results

Aquakem 7.2AQ1

Page:

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

5/22/2025 12:21

Reviewed by : RH

Instrument ID : Konelab

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.050	0.0	0.223	
ICB1	0.019	0.0	0.024	
CCV1	1.035	0.0	0.221	
CCB1	0.016	0.0	0.023	
RL CHECK	0.115	0.0	0.042	
PB168128BL	0.016	0.0	0.023	
PB168128BS	1.018	0.0	0.217	
Q2085-01	0.251	0.0	0.069	
Q2085-01DUP	0.251	0.0	0.069	
Q2085-01MS	1.197	0.0	0.252	
Q2085-01MSD	1.245	0.0	0.261	
Q2085-02	0.181	0.0	0.055	
Q2085-03	0.048	0.0	0.029	
Q2085-07	0.125	0.0	0.044	
CCV2	1.000	0.0	0.214	
CCB2	0.016	0.0	0.023	
Q2085-08	0.244	0.0	0.067	
PB168122BL	0.018	0.0	0.024	
PB168122BS	1.025	0.0	0.218	
Q2088-01	0.123	0.0	0.044	
Q2093-14	0.292	0.0	0.077	
Q2093-14DUP	0.289	0.0	0.076	
Q2093-14MS	1.269	0.0	0.266	
Q2093-14MSD	1.305	0.0	0.273	
Q2102-03	0.029	0.0	0.026	
CCV3	1.070	0.0	0.227	
CCB3	0.018	0.0	0.024	

115% (50-150)

05/22/2025
12:17

N	27
Mean	0.491
SD	0.5045
CV%	102.67

Aquakem v. 7.2AQ1

Results from time period:

Thu May 22 10:54:10 2025

Thu May 22 12:16:34 2025

Sample Id	Sam/Ctr/c/	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-† P		0.0189	mg/l	5/22/2025 10:54:10	
0.1PPM	A	Ammonia-† P		0.1057	mg/l	5/22/2025 10:54:11	
0.2PPM	A	Ammonia-† P		0.2045	mg/l	5/22/2025 10:54:12	
0.4PPM	A	Ammonia-† P		0.3934	mg/l	5/22/2025 10:54:13	
1.0PPM	A	Ammonia-† P		0.9839	mg/l	5/22/2025 10:54:14	
1.3PPM	A	Ammonia-† P		1.2882	mg/l	5/22/2025 10:54:15	
2.0PPM	A	Ammonia-† P		2.0387	mg/l	5/22/2025 10:54:16	
ICV1	S	Ammonia-† P		1.0496	mg/l	5/22/2025 11:50:15	
ICB1	S	Ammonia-† P		0.0187	mg/l	5/22/2025 11:50:16	
CCV1	S	Ammonia-† P		1.0352	mg/l	5/22/2025 11:50:19	
CCB1	S	Ammonia-† P		0.0165	mg/l	5/22/2025 11:50:21	
RL CHECK	S	Ammonia-† P		0.1149	mg/l	5/22/2025 11:50:23	
PB168128BL	S	Ammonia-† P		0.0164	mg/l	5/22/2025 11:50:24	
PB168128BS	S	Ammonia-† P		1.0185	mg/l	5/22/2025 12:00:59	
Q2085-01	S	Ammonia-† P		0.2514	mg/l	5/22/2025 12:01:00	
Q2085-01DUP	S	Ammonia-† P		0.2508	mg/l	5/22/2025 12:01:01	
Q2085-01MS	S	Ammonia-† P		1.1969	mg/l	5/22/2025 12:01:02	
Q2085-01MSD	S	Ammonia-† P		1.2449	mg/l	5/22/2025 12:01:03	
Q2085-02	S	Ammonia-† P		0.1814	mg/l	5/22/2025 12:01:04	
Q2085-03	S	Ammonia-† P		0.0484	mg/l	5/22/2025 12:01:05	
Q2085-07	S	Ammonia-† P		0.1253	mg/l	5/22/2025 12:01:06	
CCV2	S	Ammonia-† P		0.9998	mg/l	5/22/2025 12:01:07	
CCB2	S	Ammonia-† P		0.0164	mg/l	5/22/2025 12:01:08	
Q2085-08	S	Ammonia-† P		0.244	mg/l	5/22/2025 12:01:09	
PB168122BL	S	Ammonia-† P		0.0179	mg/l	5/22/2025 12:11:41	
PB168122BS	S	Ammonia-† P		1.0247	mg/l	5/22/2025 12:11:42	
Q2088-01	S	Ammonia-† P		0.1228	mg/l	5/22/2025 12:11:43	
Q2093-14	S	Ammonia-† P		0.2924	mg/l	5/22/2025 12:11:44	
Q2093-14DUP	S	Ammonia-† P		0.289	mg/l	5/22/2025 12:11:45	
Q2093-14MS	S	Ammonia-† P		1.2694	mg/l	5/22/2025 12:11:46	
Q2093-14MSD	S	Ammonia-† P		1.3046	mg/l	5/22/2025 12:11:47	
Q2102-03	S	Ammonia-† P		0.0289	mg/l	5/22/2025 12:11:48	
CCV3	S	Ammonia-† P		1.0697	mg/l	5/22/2025 12:11:49	
CCB3	S	Ammonia-† P		0.0185	mg/l	5/22/2025 12:11:50	

Calibration results

Aquakem 7.2AQ1

Page: 1

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

5/22/2025 10:55

Reviewed by : RM

Instrument ID : Konelab

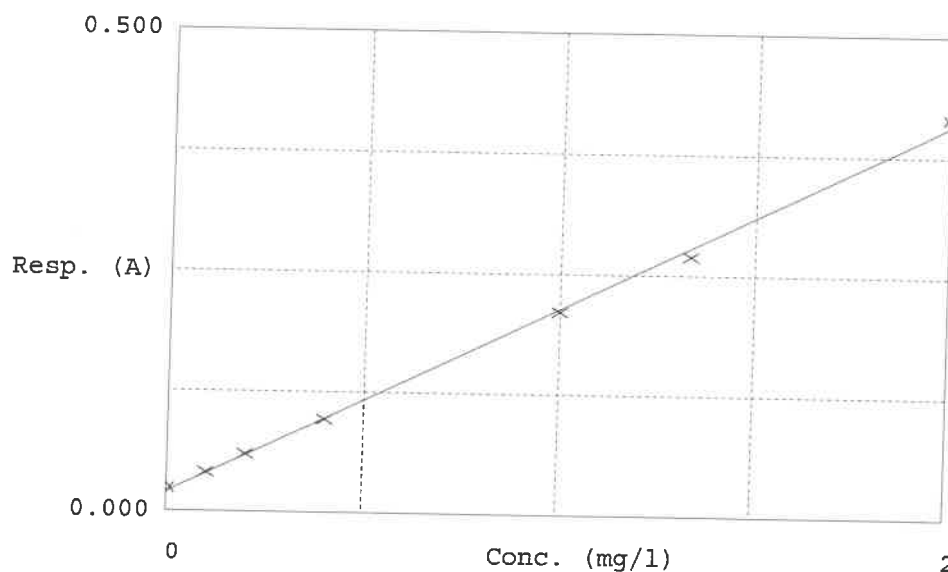
Test Ammonia-N

Accepted 5/22/2025 10:55

Factor 5.165
Bias 0.020

Coeff. of det. 0.998740

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors ^{Re}
1	0.00PPM	0.024	0.0189	0.0000	-
2	NH3-2PPM	0.041	0.1057	0.1000	5.7
3	NH3-2PPM	0.060	0.2045	0.2000	2.2
4	NH3-2PPM	0.096	0.3934	0.4000	-1.7
5	NH3-2PPM	0.211	0.9839	1.0000	-1.6
6	NH3-2PPM	0.270	1.2882	1.3333	-0.9
7	NH3-2PPM	0.415	2.0387	2.0000	1.9

05/22/2025
RM

LB135888

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

5/22/2025 16:09

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	4.820	0.0	1.033	
ICB1	0.063	0.0	0.020	
CCV1	4.730	0.0	1.014	
CCB1	0.054	0.0	0.019	
RL CHECK	0.482	0.0	0.109	
PB168112BL	0.051	0.0	0.018	
PB168112BS	4.802	0.0	1.029	
Q2088-01	2.038	0.0	0.441	
Q2093-14	0.570	0.0	0.128	
Q2093-14DUP	0.591	0.0	0.133	
Q2093-14MS	5.217	0.0	1.117	
Q2093-14MSD	5.450	0.0	1.167	
Q2102-03	2.772	0.0	0.597	
PB168096BL	0.063	0.0	0.021	
CCV2	4.801	0.0	1.028	
CCB2	0.060	0.0	0.020	
PB168096BS	4.796	0.0	1.027	
Q2085-01	3.435	0.0	0.738	
Q2085-01DUP	3.606	0.0	0.774	
Q2085-01MS	7.874	0.0	1.682	
Q2085-01MSD	8.305	0.0	1.774	
Q2085-02	3.815	0.0	0.819	
Q2085-03	2.225	0.0	0.480	
Q2085-07	4.127	0.0	0.885	
Q2085-08	2.454	0.0	0.529	
CCV3	4.728	0.0	1.013	
CCB3	0.061	0.0	0.020	

96% (50-150)

05/22/2025
RM

N	27
Mean	3.037
SD	2.4504
CV%	80.69

Aquakem v. 7.2AQ1

Results from time period:

Thu May 22 14:25:55 2025

Thu May 22 16:05:56 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	TKN-NH3	P	0.0741	mg/l	5/22/2025 14:25:55	
0.5PPM	A	TKN-NH3	P	0.4966	mg/l	5/22/2025 14:25:56	
1.0PPM	A	TKN-NH3	P	0.9907	mg/l	5/22/2025 14:25:57	
2.5PPM	A	TKN-NH3	P	2.3828	mg/l	5/22/2025 14:25:58	
5.0PPM	A	TKN-NH3	P	5.0032	mg/l	5/22/2025 14:25:59	
6.7PPM	A	TKN-NH3	P	6.738	mg/l	5/22/2025 14:26:00	
10.0PPM	A	TKN-NH3	P	9.9812	mg/l	5/22/2025 14:26:01	
ICV1	S	TKN-NH3	P	4.82	mg/l	5/22/2025 15:39:35	
ICB1	S	TKN-NH3	P	0.0628	mg/l	5/22/2025 15:39:37	
CCV1	S	TKN-NH3	P	4.7304	mg/l	5/22/2025 15:39:39	
CCB1	S	TKN-NH3	P	0.0539	mg/l	5/22/2025 15:39:42	
RL CHECK	S	TKN-NH3	P	0.4815	mg/l	5/22/2025 15:39:44	
PB168112BL	S	TKN-NH3	P	0.0511	mg/l	5/22/2025 15:39:46	
PB168112BS	S	TKN-NH3	P	4.8024	mg/l	5/22/2025 15:50:19	
Q2088-01	S	TKN-NH3	P	2.0382	mg/l	5/22/2025 15:50:21	
Q2093-14	S	TKN-NH3	P	0.5697	mg/l	5/22/2025 15:50:22	
Q2093-14DUP	S	TKN-NH3	P	0.5909	mg/l	5/22/2025 15:50:23	
Q2093-14MS	S	TKN-NH3	P	5.2171	mg/l	5/22/2025 15:50:24	
Q2093-14MSD	S	TKN-NH3	P	5.4505	mg/l	5/22/2025 15:50:25	
Q2102-03	S	TKN-NH3	P	2.772	mg/l	5/22/2025 15:50:26	
PB168096BL	S	TKN-NH3	P	0.0633	mg/l	5/22/2025 15:50:30	
CCV2	S	TKN-NH3	P	4.8008	mg/l	5/22/2025 16:01:01	
CCB2	S	TKN-NH3	P	0.0599	mg/l	5/22/2025 16:01:02	
PB168096BS	S	TKN-NH3	P	4.7958	mg/l	5/22/2025 16:01:03	
Q2085-01	S	TKN-NH3	P	3.4353	mg/l	5/22/2025 16:01:04	
Q2085-01DUP	S	TKN-NH3	P	3.6059	mg/l	5/22/2025 16:01:05	
Q2085-01MS	S	TKN-NH3	P	7.8738	mg/l	5/22/2025 16:01:06	
Q2085-01MSD	S	TKN-NH3	P	8.3055	mg/l	5/22/2025 16:01:07	
Q2085-02	S	TKN-NH3	P	3.8147	mg/l	5/22/2025 16:01:08	
Q2085-03	S	TKN-NH3	P	2.225	mg/l	5/22/2025 16:01:09	
Q2085-07	S	TKN-NH3	P	4.1269	mg/l	5/22/2025 16:01:10	
Q2085-08	S	TKN-NH3	P	2.4538	mg/l	5/22/2025 16:01:11	
CCV3	S	TKN-NH3	P	4.7281	mg/l	5/22/2025 16:01:12	
CCB3	S	TKN-NH3	P	0.0615	mg/l	5/22/2025 16:05:55	

Calibration results

Aquakem 7.2AQ1

Page:

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

Reviewed by : RM Instrument ID : Konelab

5/22/2025 14:59

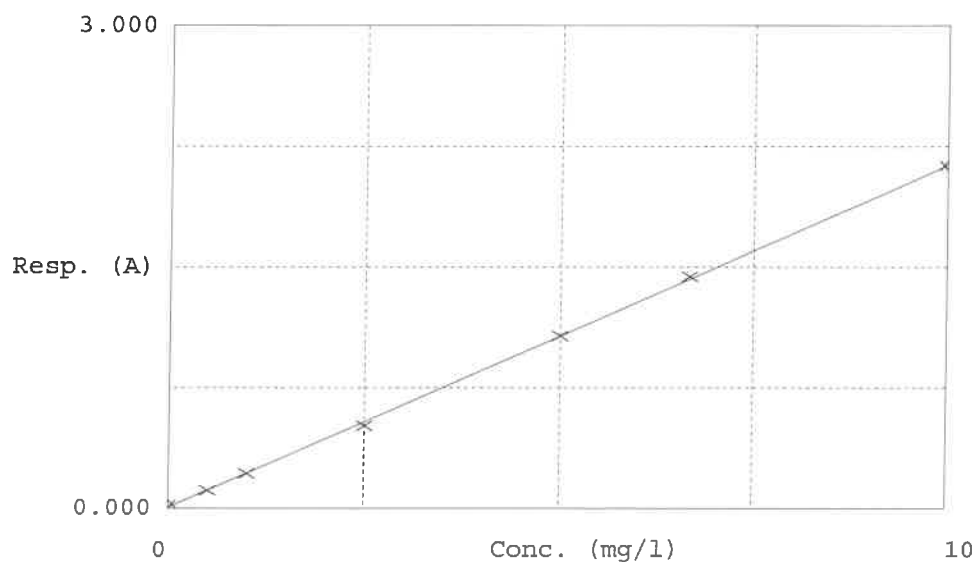
Test TKN-NH3

Accepted 5/22/2025 14:59

Factor 4.7
Bias 0.007

Coeff. of det. 0.999701

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.023	0.0741	0.0000	-0.7
2	TKN-10	0.113	0.4966	0.5000	-0.9
3	TKN-10	0.218	0.9907	1.0000	-4.7
4	TKN-10	0.514	2.3828	2.5000	0.1
5	TKN-10	1.072	5.0032	5.0000	0.6
6	TKN-10	1.441	6.7380	6.6667	-0.2
7	TKN-10	2.131	9.9812	10.0000	

05/22/2025
RM

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	1084.3801			TOC	
CCV1	1051.4855			TOC	
CCV1	1034.8352			TOC	
CCV1.....	1063.1420...	..	...	TOC	..
CCB1	22.6353			TOC	
CCB1	6.6415			TOC	
CCB1.....	6.0630...	..	...	TOC	..
CCB1	5.8934			TOC	
LB135894BLS	4.8388			TOC	
LB135894BLS.....	9.8704...	..	...	TOC	..
LB135894BLS	5.8710			TOC	
LB135894BLS	5.7624			TOC	
LB135894BSS.....	1088.7030...	..	...	TOC	..
LB135894BSS	1065.7424			TOC	
LB135894BSS	1076.9069			TOC	
LB135894BSS.....	1042.4614...	..	...	TOC	..
Q2085-01	4702.9326			TOC	
Q2085-01	4274.2817			TOC	
Q2085-01.....	4372.7705...	..	...	TOC	..
Q2085-01	4119.1055			TOC	
Q2085-02	1805.3890			TOC	
Q2085-02.....	1273.9659...	..	...	TOC	..
Q2085-02	1385.5287			TOC	
Q2085-02	1822.0641			TOC	
Q2085-03.....	1599.5083...	..	...	TOC	..
Q2085-03	1182.1036			TOC	
Q2085-03	1525.4865			TOC	
Q2085-03.....	1143.2596...	..	...	TOC	..
Q2085-07	4703.0273			TOC	
Q2085-07	4529.7939			TOC	
Q2085-07.....	4826.3081...	..	...	TOC	..
Q2085-07	5253.1182			TOC	
Q2085-08	3958.8787			TOC	
Q2085-08.....	4259.8457...	..	...	TOC	..
Q2085-08	3554.8438			TOC	
Q2085-08	3341.8418			TOC	
Q2085-08MS.....	4627.3184...	..	...	TOC	..
Q2085-08MS	5397.7915			TOC	
Q2085-08MS	3854.2935			TOC	
Q2085-08MS.....	5503.7495...	..	...	TOC	..
Q2085-08MSD	4236.2896			TOC	
Q2085-08MSD	4915.2344			TOC	
Q2085-08MSD.....	4998.0806...	..	...	TOC	..
Q2085-08MSD	4510.0669			TOC	
CCV2	1038.2305			TOC	
CCV2.....	1078.7506...	..	...	TOC	..
CCV2	1057.0803			TOC	
CCV2	1031.4121			TOC	
CCB2.....	8.8998...	..	...	TOC	..
CCB2	12.6418			TOC	
CCB2	13.7439			TOC	
CCB2.....	14.0520...	..	...	TOC	..

Method ID		Sample Type	Vial Timestamp		Message
Boat Sampler		Sample	2025/05/23	08:48	
Boat Sampler		Sample	2025/05/23	08:51	
Boat Sampler		Sample	2025/05/23	08:57	
Boat Sampler	...	Sample	..	..2025/05/23 09:02	..
Boat Sampler		Sample	2025/05/23	09:10	
Boat Sampler		Sample	2025/05/23	09:13	Low Sample Detected
Boat Sampler	...	Sample	..	..2025/05/23 09:16	..Low Sample Detected
Boat Sampler		Sample	2025/05/23	09:23	Low Sample Detected
Boat Sampler		Sample	2025/05/23	09:28	Low Sample Detected
Boat Sampler	...	Sample	..	..2025/05/23 09:31	..Low Sample Detected
Boat Sampler		Sample	2025/05/23	09:34	Low Sample Detected
Boat Sampler		Sample	2025/05/23	09:38	Low Sample Detected
Boat Sampler	...	Sample	..	..2025/05/23 09:41	..
Boat Sampler		Sample	2025/05/23	09:44	
Boat Sampler		Sample	2025/05/23	09:46	
Boat Sampler	...	Sample	..	..2025/05/23 09:49	..
Boat Sampler		Sample	2025/05/23	09:54	
Boat Sampler		Sample	2025/05/23	09:56	
Boat Sampler	...	Sample	..	..2025/05/23 09:59	..
Boat Sampler		Sample	2025/05/23	10:01	
Boat Sampler		Sample	2025/05/23	10:04	
Boat Sampler	...	Sample	..	..2025/05/23 10:06	..
Boat Sampler		Sample	2025/05/23	10:08	
Boat Sampler		Sample	2025/05/23	10:11	
Boat Sampler	...	Sample	..	..2025/05/23 10:15	..
Boat Sampler		Sample	2025/05/23	10:20	
Boat Sampler		Sample	2025/05/23	10:22	
Boat Sampler	...	Sample	..	..2025/05/23 10:25	..
Boat Sampler		Sample	2025/05/23	10:59	
Boat Sampler		Sample	2025/05/23	11:02	
Boat Sampler	...	Sample	..	..2025/05/23 11:06	..
Boat Sampler		Sample	2025/05/23	11:11	
Boat Sampler		Sample	2025/05/23	11:18	
Boat Sampler	...	Sample	..	..2025/05/23 11:24	..
Boat Sampler		Sample	2025/05/23	11:31	
Boat Sampler		Sample	2025/05/23	11:33	
Boat Sampler	...	Sample	..	..2025/05/23 11:37	..
Boat Sampler		Sample	2025/05/23	11:52	
Boat Sampler		Sample	2025/05/23	11:55	
Boat Sampler	...	Sample	..	..2025/05/23 12:00	..
Boat Sampler		Sample	2025/05/23	12:06	
Boat Sampler		Sample	2025/05/23	12:09	
Boat Sampler	...	Sample	..	..2025/05/23 12:12	..
Boat Sampler		Sample	2025/05/23	12:14	
Boat Sampler		Sample	2025/05/23	12:27	
Boat Sampler	...	Sample	..	..2025/05/23 12:30	..
Boat Sampler		Sample	2025/05/23	12:33	
Boat Sampler		Sample	2025/05/23	12:37	
Boat Sampler	...	Sample	..	..2025/05/23 12:44	..Low Sample Detected
Boat Sampler		Sample	2025/05/23	12:49	
Boat Sampler		Sample	2025/05/23	12:52	
Boat Sampler	...	Sample	..	..2025/05/23 12:55	..

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1084.3801	43.3752	3270195	-1.590	-0.598	81

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1051.4855	42.0594	3170994	-1.563	-0.564	79

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1034.8352	41.3934	3120781	2.353	3.328	49

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1063.1420	42.5257	3206147	2.678	3.673	51

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	22.6353	0.9054	68262	-1.902	-0.907	42

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.6415	0.2657	20029	-2.022	-2.056	120

Last Message: Low Sample Detected

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 05230913
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 09:16
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.0630	0.2425	18284	-2.057	-2.083	120

Last Message: Low Sample Detected

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 05230920
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 09:23
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.8934	0.2357	17773	-1.977	-2.115	120

Last Message: Low Sample Detected

Sample ID: LB135894BLS Mode: TOC
Method: Boat Sampler Filename: 05230925
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 09:28
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.8388	0.1936	14592	-2.101	-2.142	120

Last Message: Low Sample Detected

Sample ID: LB135894BLS Mode: TOC
Method: Boat Sampler Filename: 05230928
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 09:31
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.8704	0.3948	29766	-2.121	-2.169	120

Last Message: Low Sample Detected

Sample ID: LB135894BLS Mode: TOC
Method: Boat Sampler Filename: 05230931
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 09:34
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.8710	0.2348	17705	-2.165	-2.239	120

Last Message: Low Sample Detected

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.7624	0.2305	17378	-2.242	-2.253	120

Last Message: Low Sample Detected
=====

Sample ID: LB135894BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 05230939
Timestamp: 2025/05/23 09:41
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1088.7030	43.5481	3283232	-2.300	-1.303	82

Sample ID: LB135894BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 05230942
Timestamp: 2025/05/23 09:44
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1065.7424	42.6297	3213989	-2.086	-1.087	77

Sample ID: LB135894BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 05230944
Timestamp: 2025/05/23 09:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1076.9069	43.0763	3247657	-2.037	-1.040	80

Sample ID: LB135894BSS
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 05230947
Timestamp: 2025/05/23 09:49
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1042.4614	41.6985	3143780	-2.032	-1.038	75

Sample ID: Q2085-01
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ
Mode: TOC
Filename: 05230952
Timestamp: 2025/05/23 09:54
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4702.9326	39.5046	2978380	2.064	3.046	65

Sample ID: Q2085-01 Mode: TOC
Method: Boat Sampler Filename: 05230955
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 09:56
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4274.2817	32.9120	2481338	3.440	4.381	58

Sample ID: Q2085-01 Mode: TOC
Method: Boat Sampler Filename: 05230957
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 09:59
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4372.7705	37.1686	2802255	-0.796	0.192	64

Sample ID: Q2085-01 Mode: TOC
Method: Boat Sampler Filename: 05231000
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 10:01
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4119.1055	34.6005	2608641	1.281	2.269	56

Sample ID: Q2085-02 Mode: TOC
Method: Boat Sampler Filename: 05231003
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 10:04
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1805.3890	13.3599	1007244	0.530	1.506	53

Sample ID: Q2085-02 Mode: TOC
Method: Boat Sampler Filename: 05231005
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 10:06
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1273.9659	10.5739	797201	2.797	3.781	50

Sample ID: Q2085-02 Mode: TOC
Method: Boat Sampler Filename: 05231007
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 10:08
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1385.5287	10.5300	793892	6.008	6.984	45

Sample ID: Q2085-02 Mode: TOC

Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Filename: 05231009
Timestamp: 2025/05/23 10:11
Sample Type: Sample

Reviewed By:Iwona
On:5/27/2025 2:14:31
PM
Inst Id :Appolo-9000
LB :LB135894

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1822.0641	13.6655	1030284	0.243	1.241	53

Sample ID: Q2085-03
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 05231014
Timestamp: 2025/05/23 10:15
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1599.5083	12.7961	964736	0.054	1.042	53

Sample ID: Q2085-03
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 05231018
Timestamp: 2025/05/23 10:20
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1182.1036	11.5846	873401	-0.250	0.748	48

Sample ID: Q2085-03
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 05231020
Timestamp: 2025/05/23 10:22
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1525.4865	14.3396	1081106	-0.294	0.682	56

Sample ID: Q2085-03
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 05231023
Timestamp: 2025/05/23 10:25
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1143.2596	9.3747	706791	2.328	3.296	54

Sample ID: Q2085-07
Method: Boat Sampler
Cal. Curve: TOC S0IL
Operator ID: NF IZ

Mode: TOC
Filename: 05231057
Timestamp: 2025/05/23 10:59
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4703.0273	39.5054	2978440	0.199	1.199	63

Sample ID: Q2085-07
Method: Boat Sampler
Cal. Curve: TOC S0IL

Mode: TOC
Filename: 05231100
Timestamp: 2025/05/23 11:02

Operator ID: NF IZ

Sample Type: Sample

Reviewed By:Iwona
On:5/27/2025 2:14:31
PM
Inst Id :Appolo-9000
LB :LB135894

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4529.7939	33.0675	2493064	-2.076	-1.079	77

Sample ID: Q2085-07
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05231103
Timestamp: 2025/05/23 11:06
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4826.3081	36.1973	2729031	-2.387	-1.393	83

Sample ID: Q2085-07
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05231109
Timestamp: 2025/05/23 11:11
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5253.1182	40.9743	3089185	-2.420	-1.425	88

Sample ID: Q2085-08
Mode: TOC
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Filename: 05231116
Timestamp: 2025/05/23 11:18
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3958.8787	34.0464	2566863	-2.310	-1.314	77

Sample ID: Q2085-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05231123
Timestamp: 2025/05/23 11:24
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4259.8457	30.6709	2312376	-1.549	-0.565	71

Sample ID: Q2085-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05231129
Timestamp: 2025/05/23 11:31
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3554.8438	26.3058	1983281	-0.374	0.619	64

Sample ID: Q2085-08
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 05231132
Timestamp: 2025/05/23 11:33
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3341.8418	27.4031	2066007	3.625	4.569	52

Sample ID: Q2085-08MS Mode: TOC
Method: Boat Sampler Filename: 05231135
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 11:37
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4627.3184	39.7949	3000267	3.023	3.997	54

Sample ID: Q2085-08MS Mode: TOC
Method: Boat Sampler Filename: 05231150
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 11:52
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5397.7915	41.5630	3133567	-2.679	-1.683	82

Sample ID: Q2085-08MS Mode: TOC
Method: Boat Sampler Filename: 05231153
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 11:55
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3854.2935	30.4489	2295641	4.867	5.826	52

Sample ID: Q2085-08MS Mode: TOC
Method: Boat Sampler Filename: 05231159
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:00
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5503.7495	41.2781	3112089	-1.989	-0.989	76

Sample ID: Q2085-08MSD Mode: TOC
Method: Boat Sampler Filename: 05231205
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:06
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4236.2896	37.7030	2842548	6.051	7.047	53

Sample ID: Q2085-08MSD Mode: TOC
Method: Boat Sampler Filename: 05231207
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:09
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning	Ending	Integration
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				Baseline	Baseline	Time
1	4915.2344	39.3219	2964602	4.539	5.507	56
=====						

Sample ID: Q2085-08MSD Mode: TOC
Method: Boat Sampler Filename: 05231210
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:12
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4998.0806	38.9850	2939206	0.218	1.215	58
=====						

Sample ID: Q2085-08MSD Mode: TOC
Method: Boat Sampler Filename: 05231213
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:14
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4510.0669	32.9235	2482207	9.361	10.327	41
=====						

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 05231225
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:27
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1038.2305	41.5292	3131020	-2.592	-1.593	69
=====						

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 05231228
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:30
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1078.7506	43.1500	3253218	-2.717	-1.721	83
=====						

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 05231231
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:33
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1057.0803	42.2832	3187866	-2.498	-1.502	76
=====						

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 05231235
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:37
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1031.4121	41.2565	3110458	-2.691	-1.691	81

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 05231241
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:44
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.8998	0.3560	26839	-2.830	-2.820	120

Last Message: Low Sample Detected

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 05231248
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:49
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.6418	0.5057	38124	-2.826	-1.832	38

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 05231251
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:52
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.7439	0.5498	41448	-2.818	-1.825	37

Sample ID: CCB2 Mode: TOC
Method: Boat Sampler Filename: 05231254
Cal. Curve: TOC SOIL Timestamp: 2025/05/23 12:55
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.0520	0.5621	42377	-2.840	-1.847	37

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	14955	8646	57.81	TOC	
250mg/l	841606	148828	17.68	TOC	
500mg/l	1649173	101330	6.14	TOC	
1000mg/l.....	3114148...	128870..	4.14...	TOC	..
2000mg/l	6084076	53153	0.87	TOC	
ICV	1008.1160			TOC	
ICV.....	1026.3085...	..	...	TOC	..
ICV	1034.6257			TOC	
ICV	1033.1101			TOC	
ICB.....	7.8958...	..	...	TOC	..
ICB	7.5463			TOC	
ICB	12.5615			TOC	
ICB.....	13.3053...	..	...	TOC	..

Method ID	Sample Type	Vial Timestamp		Message
Boat Sampler	TOC Standard	2025/03/14	08:33	Low Sample Detected
Boat Sampler	TOC Standard	2025/03/14	08:43	
Boat Sampler	TOC Standard	2025/03/14	08:52	
Boat Sampler	...TOC Standard	..	..2025/03/14 09:02	..
Boat Sampler	TOC Standard	2025/03/14	09:13	
Boat Sampler	Sample	2025/03/14	09:32	
Boat Sampler	...Sample	..	..2025/03/14 09:34	..
Boat Sampler	Sample	2025/03/14	09:37	
Boat Sampler	Sample	2025/03/14	09:39	
Boat Sampler	...Sample	..	..2025/03/14 09:43	..Low Sample Detected
Boat Sampler	Sample	2025/03/14	09:47	Low Sample Detected
Boat Sampler	Sample	2025/03/14	09:50	
Boat Sampler	...Sample	..	..2025/03/14 09:54	..Low Sample Detected

```
<<<Statistics>>>      Mean:   3114148      Std Dev:   128870      RSD: 4.14
```

Sample ID: 2000mg/l Mode: TOC
Method: Boat Sampler Filename: 03140903
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:13
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			6076768	-2.111	-1.112	111
2			6011750	-1.590	-0.594	85
3			6120679	-1.745	-0.748	92
4			6127106	-1.924	-0.925	95

<<<Statistics>>> Mean: 6084076 Std Dev: 53153 RSD: 0.87

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140930
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:32
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1008.1160	40.3246	3040203	-2.708	-1.710	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140932
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:34
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1026.3085	41.0523	3095067	-2.463	-1.465	74

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140935
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:37
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1034.6257	41.3850	3120149	-2.458	-1.467	72

Sample ID: ICV Mode: TOC
Method: Boat Sampler Filename: 03140937
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:39
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1033.1101	41.3244	3115579	-2.438	-1.439	73

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140941
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.8958	0.3158	23812	-2.583	-2.673	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140944
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.5463	0.3019	22758	-2.639	-2.694	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140949
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:50
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.5615	0.5025	37882	-2.737	-1.746	36

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140951
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:54
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.3053	0.5322	40125	-2.721	-2.705	120

Last Message: Low Sample Detected
=====

1. Curve ID: TOC SOIL
eated: 2025/03/14 09:14
libration Factor (m): 7.539e+04
Intercept (b): 78996
squared: 0.99960

Standard ID	Y	X Expected	Measured	Message	Date & Time
	Raw Data	ug C	ug C		
BLANK	14955	0.000	-0.849	—	2025/03/14 08:33
250mg/l	841606	10.000	10.115	7.5	2025/03/14 08:43
500mg/l	1649173	20.000	20.827	4.1	2025/03/14 08:52
1000mg/l	3114148	40.000	40.258	0.6	2025/03/14 09:02
2000mg/l	6084076	80.000	79.650	-0.4	2025/03/14 09:13

12
3/20/25

12
3/20/25

Analytical Summary Report

Analysis Method: 365.3
Parameter: Phosphorus, Total
Run Number: LB135933

ANALYST: Iwona
SUPERVISOR REVIEW BY: Sohil
BALANCE ID: WC SC-7

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP113224
calibration std. phosphate 0.5 ppm	WP113223
calibration std. phosphate 0.3 ppm	WP113222
calibration std. phosphate 0.1 ppm	WP113221
calibration std. phosphate 0.05 ppm	WP113220
calibration std. 0 ppm	WP113219
phosphate CCV std.	WP113225
5N sulfuric acid	WP112831
Combined reagent	WP113245
Phenolphthalein indicator	WP111415
Sodium hydroxide, 1N	WP111323
Phosphate LOQ std, 0.05PPM	WP113229
Phosphate ICV-LCS Std	WP113226
Phosphate LOD-MDL Std 0.025ppm	WP113228

Intercept: -0.0021 Slope: 0.6505 Regression: 0.99976

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.003		05/28/2025	15:30
2	CAL2	0.05	1	50	50	0.033	0.054	8	05/28/2025	15:30
3	CAL3	0.10	1	50	50	0.067	0.106	6	05/28/2025	15:31
4	CAL4	0.30	1	50	50	0.183	0.285	-5	05/28/2025	15:31
5	CAL5	0.50	1	50	50	0.321	0.497	-0.6	05/28/2025	15:32
6	CAL6	1.00	1	50	50	0.652	1.006	0.6	05/28/2025	15:32

Analytical Summary Report

Analysis Method: 365.3

ANALYST: Iwona

Parameter: Phosphorus, Total

SUPERVISOR REVIEW BY: Sohil

Run Number: LB135933

BALANCE ID: WC SC-7

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.328	0.507	05/28/2025	15:33
2	ICB		1	50	50	0.002	0.006	05/28/2025	15:33
3	CCV1	0.50	1	50	50	0.324	0.501	05/28/2025	15:34
4	CCB1		1	50	50	0.000	0.003	05/28/2025	15:34
5	RL Check	0.05	1	50	50	0.032	0.052	05/28/2025	15:35
6	PB168183BL		1	1.00	50	0.003	0.008	05/28/2025	15:35
7	PB168183BS	0.50	1	1.00	50	0.320	0.495	05/28/2025	15:36
8	Q1872-07		1	1.00	50	2.112	3.250	05/28/2025	15:36
9	Q2085-01		1	1.01	50	0.618	0.953	05/28/2025	15:37
10	Q2085-01DUP		1	1.01	50	0.614	0.947	05/28/2025	15:37
11	Q2085-01MS	0.50	1	1.02	50	0.745	1.149	05/28/2025	15:38
12	Q2085-01MSD	0.50	1	1.02	50	0.749	1.155	05/28/2025	15:38
13	Q2085-02		1	1.02	50	0.570	0.879	05/28/2025	15:39
14	Q2085-03		1	1.02	50	0.380	0.587	05/28/2025	15:39
15	Q2085-07		1	1.01	50	0.354	0.547	05/28/2025	15:40
16	CCV2	0.50	1	50	50	0.326	0.504	05/28/2025	15:40
17	CCB2		1	50	50	0.003	0.008	05/28/2025	15:41
18	Q2085-08		1	1.02	50	0.546	0.843	05/28/2025	15:41
19	Q2126-01		1	1.04	50	0.035	0.057	05/28/2025	15:42
20	Q2126-02		1	1.01	50	0.019	0.032	05/28/2025	15:42
21	Q1872-07		100	1.00	50	0.315	0.487	05/28/2025	15:43
22	Q2085-01MS	0.50	2	1.02	50	0.466	0.720	05/28/2025	15:43
23	Q2085-01MSD	0.50	2	1.02	50	0.465	0.718	05/28/2025	15:44
24	CCV3	0.50	1	50	50	0.318	0.492	05/28/2025	15:44
25	CCB3		1	50	50	0.002	0.006	05/28/2025	15:45

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	986.8301			TOC	
CCV1	1010.2773			TOC	
CCV1	1018.8155			TOC	
CCV1.....	1022.3622...	..	...	TOC	..
CCB1	3.2146			TOC	
CCB1	2.1771			TOC	
CCB1.....	3.7166...	..	...	TOC	..
CCB1	10.6001			TOC	
LB136025BLS	3.9930			TOC	
LB136025BLS.....	2.0748...	..	...	TOC	..
LB136025BLS	3.6377			TOC	
LB136025BLS	8.9315			TOC	
LB136025BSS.....	976.4116...	..	...	TOC	..
LB136025BSS	1000.4054			TOC	
LB136025BSS	1001.0943			TOC	
LB136025BSS.....	1008.7712...	..	...	TOC	..
Q2085-04	6518.7212			TOC	
Q2085-04	6072.2485			TOC	
Q2085-04.....	5626.7466...	..	...	TOC	..
Q2085-04	7316.9180			TOC	
CCV2	974.5081			TOC	
CCV2.....	1010.9082...	..	...	TOC	..
CCV2	1017.9647			TOC	
CCV2	1022.1957			TOC	
CCB2.....	4.0473...	..	...	TOC	..
CCB2	2.7844			TOC	
CCB2	13.7652			TOC	
CCB2.....	3.4074...	..	...	TOC	..

Method ID	Sample Type	Vial Timestamp		Message
Boat Sampler	Sample	2025/06/06	08:15	
Boat Sampler	Sample	2025/06/06	08:18	
Boat Sampler	Sample	2025/06/06	08:20	
Boat Sampler	...Sample	..	..2025/06/06 08:22	..
Boat Sampler	Sample	2025/06/06	08:29	Low Sample Detected
Boat Sampler	Sample	2025/06/06	08:38	Low Sample Detected
Boat Sampler	...Sample	..	..2025/06/06 08:41	..Low Sample Detected
Boat Sampler	Sample	2025/06/06	08:43	
Boat Sampler	Sample	2025/06/06	08:47	Low Sample Detected
Boat Sampler	...Sample	..	..2025/06/06 08:50	..Low Sample Detected
Boat Sampler	Sample	2025/06/06	08:53	Low Sample Detected
Boat Sampler	Sample	2025/06/06	08:56	Low Sample Detected
Boat Sampler	...Sample	..	..2025/06/06 08:59	..
Boat Sampler	Sample	2025/06/06	09:01	
Boat Sampler	Sample	2025/06/06	09:03	
Boat Sampler	...Sample	..	..2025/06/06 09:05	..
Boat Sampler	Sample	2025/06/06	09:09	
Boat Sampler	Sample	2025/06/06	09:14	
Boat Sampler	...Sample	..	..2025/06/06 09:17	..
Boat Sampler	Sample	2025/06/06	09:19	
Boat Sampler	Sample	2025/06/06	09:29	
Boat Sampler	...Sample	..	..2025/06/06 09:32	..
Boat Sampler	Sample	2025/06/06	09:34	
Boat Sampler	Sample	2025/06/06	09:36	
Boat Sampler	...Sample	..	..2025/06/06 09:43	..Low Sample Detected
Boat Sampler	Sample	2025/06/06	09:46	Low Sample Detected
Boat Sampler	Sample	2025/06/06	09:49	Low Sample Detected
Boat Sampler	...Sample	..	..2025/06/06 09:53	..Low Sample Detected

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	986.8301	39.4732	2976011	-1.244	-0.252	76

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1010.2773	40.4111	3046721	-1.113	-0.116	75

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1018.8155	40.7526	3072470	-0.995	0.003	73

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1022.3622	40.8945	3083166	-1.033	-0.033	72

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.2146	0.1286	9694	-1.459	-1.542	120

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.1771	0.0871	6566	-1.540	-1.631	120

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 06060839
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 08:41
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.7166	0.1487	11208	-1.612	-1.644	120

Last Message: Low Sample Detected
=====

Sample ID: CCB1 Mode: TOC
Method: Boat Sampler Filename: 06060842
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 08:43
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.6001	0.4240	31967	-1.657	-0.666	33

=====

Sample ID: LB136025BLS Mode: TOC
Method: Boat Sampler Filename: 06060844
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 08:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.9930	0.1597	12042	-1.690	-1.731	120

Last Message: Low Sample Detected
=====

Sample ID: LB136025BLS Mode: TOC
Method: Boat Sampler Filename: 06060847
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 08:50
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.0748	0.0830	6257	-1.712	-1.737	120

Last Message: Low Sample Detected
=====

Sample ID: LB136025BLS Mode: TOC
Method: Boat Sampler Filename: 06060850
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 08:53
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.6377	0.1455	10970	-1.738	-1.769	120

Last Message: Low Sample Detected
=====

Sample ID: LB136025BLS Mode: TOC
Method: Boat Sampler Filename: 06060853
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 08:56
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	8.9315	0.3573	26935	-1.771	-1.844	120

Last Message: Low Sample Detected
=====

Sample ID: LB136025BSS Mode: TOC
Method: Boat Sampler Filename: 06060857
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 08:59
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	976.4116	39.0565	2944591	-1.797	-0.802	74

Sample ID: LB136025BSS Mode: TOC
Method: Boat Sampler Filename: 06060859
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 09:01
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1000.4054	40.0162	3016950	-1.568	-0.574	72

Sample ID: LB136025BSS Mode: TOC
Method: Boat Sampler Filename: 06060901
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 09:03
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1001.0943	40.0438	3019028	-1.506	-0.512	71

Sample ID: LB136025BSS Mode: TOC
Method: Boat Sampler Filename: 06060904
Ca Timestamp: 2025/06/06 09:05
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1008.7712	40.3508	3042179	-1.479	-0.487	72

Sample ID: Q2085-04 Mode: TOC
Method: Boat Sampler Filename: 06060907
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 09:09
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6518.7212	46.2829	3489417	-1.566	-0.568	80

Sample ID: Q2085-04 Mode: TOC
Method: Boat Sampler Filename: 06060913
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 09:14
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6072.2485	46.1491	3479327	4.609	5.604	51

Sample ID: Q2085-04 Mode: TOC
Method: Boat Sampler Filename: 06060915
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 09:17
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5626.7466	45.0140	3393747	3.036	3.997	55

Sample ID: Q2085-04 Mode: TOC
Method: Boat Sampler Filename: 06060917
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 09:19
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7316.9180	54.1452	4082179	-0.309	0.684	69

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 06060928
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 09:29
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	974.5081	38.9803	2938851	0.780	1.765	66

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 06060930
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 09:32
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1010.9082	40.4363	3048624	-1.503	-0.504	72

Sample ID: CCV2 Mode: TOC
Method: Boat Sampler Filename: 06060932
Cal. Curve: TOC SOIL Timestamp: 2025/06/06 09:34
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1017.9647	40.7186	3069904	-1.565	-0.566	73

Sample ID: CCV2 Mode: TOC

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
BLANK	14955	8646	57.81	TOC	
250mg/l	841606	148828	17.68	TOC	
500mg/l	1649173	101330	6.14	TOC	
1000mg/l.....	3114148...	128870..	4.14...	TOC	..
2000mg/l	6084076	53153	0.87	TOC	
ICV	1008.1160			TOC	
ICV.....	1026.3085...		..	...TOC	..
ICV	1034.6257			TOC	
ICV	1033.1101			TOC	
ICB.....	7.8958...		..	...TOC	..
ICB	7.5463			TOC	
ICB	12.5615			TOC	
ICB.....	13.3053...		..	...TOC	..

Method ID	Sample Type	Vial	Timestamp	Message
Boat Sampler	TOC Standard		2025/03/14 08:33	Low Sample Detected
Boat Sampler	TOC Standard		2025/03/14 08:43	
Boat Sampler	TOC Standard		2025/03/14 08:52	
Boat Sampler	...TOC Standard	..	..2025/03/14 09:02	..
Boat Sampler	TOC Standard		2025/03/14 09:13	
Boat Sampler	Sample		2025/03/14 09:32	
Boat Sampler	...Sample	..	..2025/03/14 09:34	..
Boat Sampler	Sample		2025/03/14 09:37	
Boat Sampler	Sample		2025/03/14 09:39	
Boat Sampler	...Sample	..	..2025/03/14 09:43	..Low Sample Detected
Boat Sampler	Sample		2025/03/14 09:47	Low Sample Detected
Boat Sampler	Sample		2025/03/14 09:50	
Boat Sampler	...Sample	..	..2025/03/14 09:54	..Low Sample Detected

```
<<<Statistics>>>      Mean:   3114148      Std Dev:   128870      RSD: 4.14
```

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			6076768	-2.111	-1.112	111
2			6011750	-1.590	-0.594	85
3			6120679	-1.745	-0.748	92
4			6127106	-1.924	-0.925	95

<<<Statistics>>> Mean: 6084076 Std Dev: 53153 RSD: 0.87

Sample ID: ICV
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 03140930
Timestamp: 2025/03/14 09:32
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1008.1160	40.3246	3040203	-2.708	-1.710	74

Sample ID: ICV
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 03140932
Timestamp: 2025/03/14 09:34
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1026.3085	41.0523	3095067	-2.463	-1.465	74

Sample ID: ICV
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 03140935
Timestamp: 2025/03/14 09:37
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1034.6257	41.3850	3120149	-2.458	-1.467	72

Sample ID: ICV
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 03140937
Timestamp: 2025/03/14 09:39
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1033.1101	41.3244	3115579	-2.438	-1.439	73

Sample ID: ICB
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 03140941
Timestamp: 2025/03/14 09:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.8958	0.3158	23812	-2.583	-2.673	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140944
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:47
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.5463	0.3019	22758	-2.639	-2.694	120

Last Message: Low Sample Detected
=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140949
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:50
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.5615	0.5025	37882	-2.737	-1.746	36

=====

Sample ID: ICB Mode: TOC
Method: Boat Sampler Filename: 03140951
Cal. Curve: TOC SOIL Timestamp: 2025/03/14 09:54
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.3053	0.5322	40125	-2.721	-2.705	120

Last Message: Low Sample Detected
=====

1. Curve ID: TOC SOIL
eated: 2025/03/14 09:14
libration Factor (m): 7.539e+04
Intercept (b): 78996
squared: 0.99960

Standard ID	Y	X Expected	Measured	Message	Date & Time
	Raw Data	ug C	ug C		
BLANK	14955	0.000	-0.849	-	2025/03/14 08:33
250mg/l	841606	10.000	10.115	7.5	2025/03/14 08:43
500mg/l	1649173	20.000	20.827	4.1	2025/03/14 08:52
1000mg/l	3114148	40.000	40.258	0.6	2025/03/14 09:02
2000mg/l	6084076	80.000	79.650	-0.4	2025/03/14 09:13

12
3/20/25

12
3/20/25

Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Filename: 06060934
Timestamp: 2025/06/06 09:36
Sample Type: Sample

Reviewed By:Iwona
On:6/6/2025 1:48:37
PM
Inst Id :Appolo-9000
LB :LB136025

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1022.1957	40.8878	3082664	-1.551	-0.552	73

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 06060940
Timestamp: 2025/06/06 09:43
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.0473	0.1619	12205	-1.862	-1.910	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 06060944
Timestamp: 2025/06/06 09:46
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.7844	0.1114	8397	-1.914	-1.950	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 06060947
Timestamp: 2025/06/06 09:49
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.7652	0.5506	41512	-1.956	-1.974	120

Last Message: Low Sample Detected

Sample ID: CCB2
Method: Boat Sampler
Cal. Curve: TOC SOIL
Operator ID: NF IZ

Mode: TOC
Filename: 06060950
Timestamp: 2025/06/06 09:53
Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.4074	0.1363	10276	-1.964	-2.003	120

Last Message: Low Sample Detected

Analytical Summary Report

Analysis Method: 365.3
Parameter: Phosphorus, Total
Run Number: LB136037

ANALYST: Iwona
SUPERVISOR REVIEW BY: jignesh
BALANCE ID: WC SC-7

Reagent/Standard	Lot/Log #
calibration std. phosphate 1 ppm	WP113339
calibration std. phosphate 0.5 ppm	WP113338
calibration std. phosphate 0.3 ppm	WP113337
calibration std. phosphate 0.1 ppm	WP113336
calibration std. phosphate 0.05 ppm	WP113335
calibration std. 0 ppm	WP113334
phosphate CCV std.	WP113340
5N sulfuric acid	WP112831
Combined reagent	WP113414
Phenolphthalein indicator	WP113378
Sodium hydroxide, 1N	WP111323
Phosphate ICV-LCS Std	WP113341

Intercept: -0.0011 Slope: 0.6527 Regression: 0.999838

Seq	Lab ID	True Value (mg/L)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	%D	AnalDate	AnalTime
1	CAL1	0.00	1	50	50	0.000	0.002		06/06/2025	11:10
2	CAL2	0.05	1	50	50	0.032	0.051	2	06/06/2025	11:10
3	CAL3	0.10	1	50	50	0.067	0.104	4	06/06/2025	11:16
4	CAL4	0.30	1	50	50	0.186	0.287	-4.3	06/06/2025	11:11
5	CAL5	0.50	1	50	50	0.329	0.506	1.2	06/06/2025	11:12
6	CAL6	1.00	1	50	50	0.652	1.001	0.1	06/06/2025	11:12

Analytical Summary Report

Analysis Method: 365.3

ANALYST: Iwona

Parameter: Phosphorus, Total

SUPERVISOR REVIEW BY: jignesh

Run Number: LB136037

BALANCE ID: WC SC-7

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (mL)	Absorbance Reading at 880nm	Result (mg/L)	AnalDate	AnalTime
1	ICV	0.50	1	50	50	0.320	0.492	06/06/2025	11:13
2	ICB		1	50	50	0.001	0.003	06/06/2025	11:13
3	CCV1	0.50	1	50	50	0.328	0.504	06/06/2025	11:14
4	CCB1		1	50	50	0.001	0.003	06/06/2025	11:14
5	RL Check	0.05	1	50	50	0.029	0.046	06/06/2025	11:15
6	PB168315BL		1	1.00	50	0.000	0.002	06/06/2025	11:15
7	PB168315BS	0.50	1	1.00	50	0.325	0.500	06/06/2025	11:16
8	Q2085-04		1	1.04	50	0.289	0.444	06/06/2025	11:16
9	Q2085-04DUP		1	1.01	50	0.286	0.440	06/06/2025	11:17
10	Q2085-04MS	0.50	1	1.05	50	0.605	0.929	06/06/2025	11:17
11	Q2085-04MSD	0.50	1	1.05	50	0.607	0.932	06/06/2025	11:18
12	CCV2	0.50	1	50	50	0.335	0.515	06/06/2025	11:18
13	CCB2		1	50	50	0.000	0.002	06/06/2025	11:19

Page:

Instrument ID : KoneLab

6/6/2025 12:34

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	1.069	0.0	0.219	
ICB1	0.040	0.0	0.030	
CCV1	1.021	0.0	0.210	
CCB1	0.029	0.0	0.028	
RL CHECK	0.123	0.0	0.045	123% (S ₀ -1 S ₀)
PB168326BL	0.029	0.0	0.028	06/06/2025
PB168326BS	1.081	0.0	0.221	R17
Q2126-07	0.110	0.0	0.042	
Q2126-08	0.135	0.0	0.047	
Q2191-01	8.666	0.0	1.615	Test limit high
Q2191-04	8.345	0.0	1.556	Test limit high
Q2203-01	5.488	0.0	1.031	Test limit high
Q2203-01DUP	5.433	0.0	1.021	Test limit high
Q2203-01MS	6.687	0.0	1.251	Test limit high
CCV2	1.072	0.0	0.219	
CCB2	0.040	0.0	0.029	
Q2203-01MSD	6.456	0.0	1.209	Test limit high
Q2203-04	5.232	0.0	0.984	Test limit high
Q2243-01	1.284	0.0	0.258	
RL CHECK.	0.135	0.0	0.047	135% (S ₀ -1 S ₀)
PB168328BL	0.030	0.0	0.028	06/06/2025
PB168328BS	1.078	0.0	0.220	R17
2085-04	0.183	0.0	0.056	
2085-04DUP	0.171	0.0	0.054	
2085-04MS	1.163	0.0	0.236	
2085-04MSD	1.178	0.0	0.239	
CV3	1.059	0.0	0.217	
CB3	0.045	0.0	0.030	
2126-01	0.119	0.0	0.044	
2126-02	0.138	0.0	0.048	
CV4	1.087	0.0	0.222	
CB4	0.036	0.0	0.029	
2191-01DLX10	0.823	0.0	0.174	
2191-04DLX10	0.779	0.0	0.165	
2203-01DLX5	1.062	0.0	0.217	
2203-01DUPDLX5	1.052	0.0	0.215	
2203-04DLX5	1.005	0.0	0.207	
CV5	1.031	0.0	0.212	
CB5	0.034	0.0	0.028	

N	39
Mean	1.655
SD	2.4571
CV%	148.46

Aquakem v. 7.2AQ1

Results from time period:

Fri Jun 06 09:55:54 2025

Fri Jun 06 12:30:24 2025

Sample Id	Sam/Cti	Test short na	Test type	Result	Result uni	Result date and time	Stat
0.0PPM	A	Ammonia-N	P	0.0043	mg/l	6/6/2025 9:55:54	
0.1PPM	A	Ammonia-N	P	0.1045	mg/l	6/6/2025 9:55:55	
0.2PPM	A	Ammonia-N	P	0.1939	mg/l	6/6/2025 9:55:56	
0.4PPM	A	Ammonia-N	P	0.3962	mg/l	6/6/2025 9:55:57	
1.0PPM	A	Ammonia-N	P	1.0043	mg/l	6/6/2025 9:55:58	
1.3PPM	A	Ammonia-N	P	1.3267	mg/l	6/6/2025 9:55:59	
2.0PPM	A	Ammonia-N	P	2.0034	mg/l	6/6/2025 9:56:00	
ICV1	S	Ammonia-N	P	1.0689	mg/l	6/6/2025 11:16:14	
ICB1	S	Ammonia-N	P	0.0401	mg/l	6/6/2025 11:16:16	
CCV1	S	Ammonia-N	P	1.0213	mg/l	6/6/2025 11:16:17	
CCB1	S	Ammonia-N	P	0.0294	mg/l	6/6/2025 11:16:19	
RL CHECK	S	Ammonia-N	P	0.1229	mg/l	6/6/2025 11:16:21	
PB168326BL	S	Ammonia-N	P	0.0295	mg/l	6/6/2025 11:16:23	
PB168326BS	S	Ammonia-N	P	1.0812	mg/l	6/6/2025 11:26:58	
Q2126-07	S	Ammonia-N	P	0.1104	mg/l	6/6/2025 11:26:59	
Q2126-08	S	Ammonia-N	P	0.1345	mg/l	6/6/2025 11:27:01	
Q2191-01	S	Ammonia-N	P	8.6657	mg/l	6/6/2025 11:27:03	
Q2191-04	S	Ammonia-N	P	8.3447	mg/l	6/6/2025 11:27:04	
Q2203-01	S	Ammonia-N	P	5.488	mg/l	6/6/2025 11:27:06	
Q2203-01DUP	S	Ammonia-N	P	5.4332	mg/l	6/6/2025 11:27:07	
Q2203-01MS	S	Ammonia-N	P	6.6871	mg/l	6/6/2025 11:27:08	
CCV2	S	Ammonia-N	P	1.0717	mg/l	6/6/2025 11:37:42	
CCB2	S	Ammonia-N	P	0.0397	mg/l	6/6/2025 11:37:44	
Q2203-01MSD	S	Ammonia-N	P	6.456	mg/l	6/6/2025 11:37:46	
Q2203-04	S	Ammonia-N	P	5.2322	mg/l	6/6/2025 11:37:48	
Q2243-01	S	Ammonia-N	P	1.2835	mg/l	6/6/2025 11:37:49	
RL CHECK.	S	Ammonia-N	P	0.1353	mg/l	6/6/2025 11:37:50	
PB168328BL	S	Ammonia-N	P	0.0295	mg/l	6/6/2025 11:37:52	
PB168328BS	S	Ammonia-N	P	1.0777	mg/l	6/6/2025 11:48:27	
Q2085-04	S	Ammonia-N	P	0.183	mg/l	6/6/2025 11:48:29	
Q2085-04DUP	S	Ammonia-N	P	0.1712	mg/l	6/6/2025 11:48:30	
Q2085-04MS	S	Ammonia-N	P	1.1629	mg/l	6/6/2025 11:48:31	
Q2085-04MSD	S	Ammonia-N	P	1.1782	mg/l	6/6/2025 11:48:32	
CCV3	S	Ammonia-N	P	1.0592	mg/l	6/6/2025 11:48:37	
CCB3	S	Ammonia-N	P	0.0448	mg/l	6/6/2025 11:58:34	
Q2126-01	S	Ammonia-N	P	0.1186	mg/l	6/6/2025 11:58:35	
Q2126-02	S	Ammonia-N	P	0.1384	mg/l	6/6/2025 11:58:38	
CCV4	S	Ammonia-N	P	1.0865	mg/l	6/6/2025 11:58:40	
CCB4	S	Ammonia-N	P	0.0365	mg/l	6/6/2025 11:58:42	

Q2191-01DLX10	S	Ammonia-N P	0.8233 mg/l	6/6/2025 12:25:29
Q2191-04DLX10	S	Ammonia-N P	0.7789 mg/l	6/6/2025 12:25:32
Q2203-01DLX5	S	Ammonia-N P	1.0623 mg/l	6/6/2025 12:25:33
Q2203-01DUPDLX5	S	Ammonia-N P	1.0516 mg/l	6/6/2025 12:25:35
Q2203-04DLX5	S	Ammonia-N P	1.005 mg/l	6/6/2025 12:25:37
CCV5	S	Ammonia-N P	1.0312 mg/l	6/6/2025 12:25:40
CCB5	S	Ammonia-N P	0.0344 mg/l	6/6/2025 12:30:24

Calibration results

Aquakem 7.2AQ1

Page: 1

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

Reviewed by : RM

Instrument ID : Konelab

6/6/2025 10:03

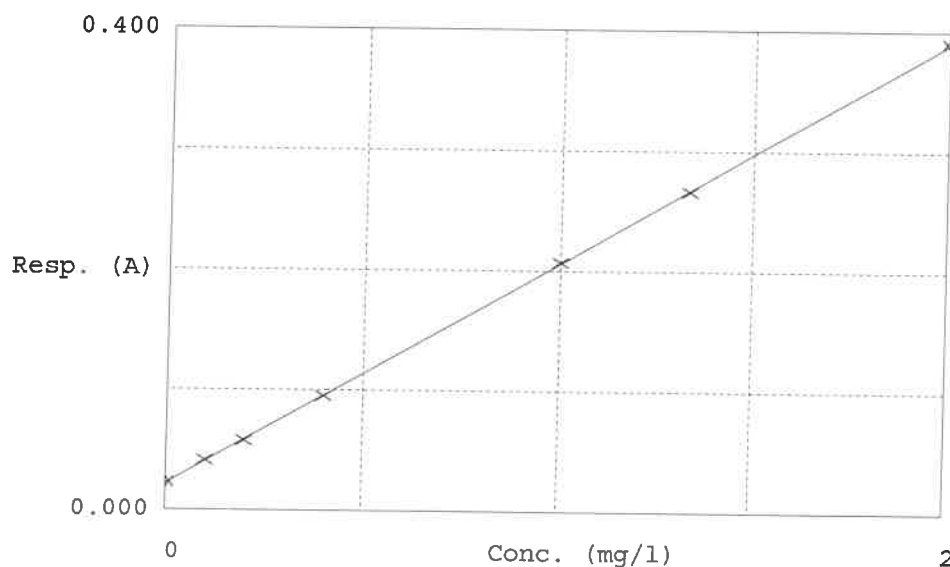
Test Ammonia-N

Accepted 6/6/2025 10:03

Factor 5.44
Bias 0.022

Coeff. of det. 0.999951

Errors



	Calibrator	Response	Calc. con.	Conc.	^{Re} Errors
1	0.00PPM	0.023	0.0043	0.0000	4.5
2	NH3-2PPM	0.041	0.1045	0.1000	-3.1
3	NH3-2PPM	0.058	0.1939	0.2000	-1.0
4	NH3-2PPM	0.095	0.3962	0.4000	0.4
5	NH3-2PPM	0.207	1.0043	1.0000	2.1
6	NH3-2PPM	0.266	1.3267	1.3333	0.2
7	NH3-2PPM	0.390	2.0034	2.0000	

06/06/2025
RM

LB 136043

Test results

Aquakem 7.2AQ1

Page:

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

Reviewed by : 12 Instrument ID : Konelab

6/6/2025 14:49

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	4.723	0.0	1.015	
ICB1	0.150	0.0	0.038	
CCV1	4.696	0.0	1.009	
CCB1	0.160	0.0	0.040	
RL CHECK	0.517	0.0	0.116	
PB168327BL	0.156	0.0	0.039	
PB168327BS	4.840	0.0	1.040	
Q2085-04	7.086	0.0	1.520	
Q2085-04DUP	7.379	0.0	1.583	
Q2085-04MS	11.284	0.0	2.417	Test limit high
Q2085-04MSD	11.873	0.0	2.543	Init abs., Test limit hig
Q2126-01	0.317	0.0	0.074	
Q2126-02	0.549	0.0	0.123	
PB168332BL	0.178	0.0	0.044	
CCV2	4.615	0.0	0.992	
CCB2	0.137	0.0	0.035	
PB168332BS	4.659	0.0	1.001	
Q2126-07	0.315	0.0	0.073	
Q2126-08	0.564	0.0	0.126	
CCV3	4.850	0.0	1.042	
CCB3	0.148	0.0	0.038	

N 21
 Mean 3.295
 SD 3.7449
 CV% 113.66

Aquakem v. 7.2AQ1

Results from time period:

Fri Jun 06 13:02:20 2025

Fri Jun 06 14:46:29 2025

Sample Id	Sam/Ctr/c/	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	TKN-NH3	P	0.1041	mg/l	6/6/2025 13:02:20	
0.5PPM	A	TKN-NH3	P	0.5215	mg/l	6/6/2025 13:02:21	
1.0PPM	A	TKN-NH3	P	0.9814	mg/l	6/6/2025 13:02:22	
2.5PPM	A	TKN-NH3	P	2.4148	mg/l	6/6/2025 13:02:23	
5.0PPM	A	TKN-NH3	P	4.9194	mg/l	6/6/2025 13:02:24	
6.7PPM	A	TKN-NH3	P	6.6559	mg/l	6/6/2025 13:02:25	
10.0PPM	A	TKN-NH3	P	10.0696	mg/l	6/6/2025 13:02:26	
ICV1	S	TKN-NH3	P	4.7228	mg/l	6/6/2025 14:29:05	
ICB1	S	TKN-NH3	P	0.1503	mg/l	6/6/2025 14:29:08	
CCV1	S	TKN-NH3	P	4.6963	mg/l	6/6/2025 14:29:09	
CCB1	S	TKN-NH3	P	0.1598	mg/l	6/6/2025 14:29:11	
RL CHECK	S	TKN-NH3	P	0.5172	mg/l	6/6/2025 14:29:13	
PB168327BL	S	TKN-NH3	P	0.1556	mg/l	6/6/2025 14:29:14	
PB168327BS	S	TKN-NH3	P	4.8397	mg/l	6/6/2025 14:29:15	
Q2085-04	S	TKN-NH3	P	7.0859	mg/l	6/6/2025 14:29:16	
Q2085-04DUP	S	TKN-NH3	P	7.3787	mg/l	6/6/2025 14:39:46	
Q2085-04MS	S	TKN-NH3	P	11.2841	mg/l	6/6/2025 14:39:47	
Q2085-04MSD	S	TKN-NH3	P	11.8728	mg/l	6/6/2025 14:39:48	
Q2126-01	S	TKN-NH3	P	0.3174	mg/l	6/6/2025 14:39:50	
Q2126-02	S	TKN-NH3	P	0.5487	mg/l	6/6/2025 14:39:52	
PB168332BL	S	TKN-NH3	P	0.1778	mg/l	6/6/2025 14:39:53	
CCV2	S	TKN-NH3	P	4.6146	mg/l	6/6/2025 14:39:54	
CCB2	S	TKN-NH3	P	0.1369	mg/l	6/6/2025 14:39:55	
PB168332BS	S	TKN-NH3	P	4.6587	mg/l	6/6/2025 14:39:56	
Q2126-07	S	TKN-NH3	P	0.3148	mg/l	6/6/2025 14:39:57	
Q2126-08	S	TKN-NH3	P	0.5637	mg/l	6/6/2025 14:46:25	
CCV3	S	TKN-NH3	P	4.8495	mg/l	6/6/2025 14:46:27	
CCB3	S	TKN-NH3	P	0.148	mg/l	6/6/2025 14:46:28	

Calibration results

Aquakem 7.2AQ1

Page: 1

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

Reviewed by : 12

Instrument ID : Konelab

6/6/2025 13:06

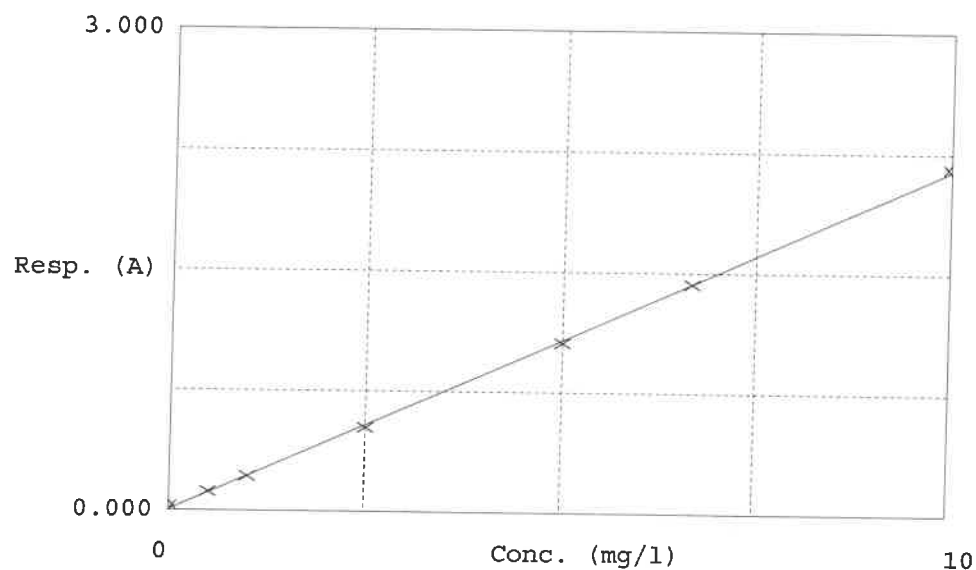
Test TKN-NH3

Accepted 6/6/2025 13:06

Factor 4.68
Bias 0.006

Coeff. of det. 0.999633

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.028	0.1041	0.0000	~
2	TKN-10	0.117	0.5215	0.5000	4.3
3	TKN-10	0.216	0.9814	1.0000	-1.2
4	TKN-10	0.522	2.4148	2.5000	-3.4
5	TKN-10	1.057	4.9194	5.0000	-1.6
6	TKN-10	1.428	6.6559	6.6667	-0.7
7	TKN-10	2.158	10.0696	10.0000	0.7

12
6/6/25

SOP ID : MSM4500-N Org C-TKN-11

SDG No : N/A

Start Digest Date: 05/22/2025 Time : 08:50 Temp : 385 °C

Matrix : SOIL

End Digest Date: 05/22/2025 Time : 10:25 Temp : 380 °C

Pipette ID : WC

Start Distillation Date: 05/22/2025 Time : 12:20 Temp : 150 °C

Balance ID : WC SC-7

End Distillation Date: 05/22/2025 Time : 13:20 Temp : 160 °C

Hood ID : HOOD#2&3

Digestion tube ID : M5595

Block Thermometer ID : Therm#2(2179)

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP113126
TKN CCV STD	50.0ML	WP113127
TKN ICV STD	50.0ML	WP113128
TKN LCS STD	50.0ML	WP113129
MS/MSD SPIKE SOL.	0.25ML	WP112611

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP113135
TKN DISTILLATION BUFFER	10.0ML	WP112903
H2SO4 0.04N	5.0ML	WP112828
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
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

RL CHECK AS PER PB168112, 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
05/22/2025 14:50	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168096BL	PBS096	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168096BS	LCS096	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01DUP	SC-4-SED-051525DUP	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01MS	SC-4-SED-051525MS	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01MSD	SC-4-SED-051525MSD	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01	SC-4-SED-051525	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-02	SC-3-SED-051525	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-03	SC-2-SED-051525	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-07	SC-COMP-SED-051625	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-08	DUPE-1-SC	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tkn-soil-5-21

WorkList ID : 189654

Department : Distillation

Date : 05-21-2025 08:12:31

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2085-01	SC-4-SED-051525	Solid	TKN	Cool 4 deg C	USAR03	L41	05/15/2025	SM4500 N Org
Q2085-02	SC-3-SED-051525	Solid	TKN	Cool 4 deg C	USAR03	L41	05/15/2025	SM4500 N Org
Q2085-03	SC-2-SED-051525	Solid	TKN	Cool 4 deg C	USAR03	L41	05/15/2025	SM4500 N Org
Q2085-07	SC-COMP-SED-051525	Solid	TKN	Cool 4 deg C	USAR03	L41	05/16/2025	SM4500 N Org
Q2085-08	DUPE-1-SC	Solid	TKN	Cool 4 deg C	USAR03	L41	05/16/2025	SM4500 N Org

Date/Time 05/22/2025 08:20
 Raw Sample Received by: RM CWC
 Raw Sample Relinquished by: [Signature]

Date/Time 05/22/2025 14:00
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: RM CWC

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

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : RM

Start Digest Date: 05/21/2025 Time : 10:40 Temp : 150 °C

End Digest Date: 05/21/2025 Time : 11:45 Temp : 158 °C

Inol 3.0ml 05/21/2025 12:00 150°C
05/21/2025 13:00 159°C

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Filter paper ID : N/A

Prep Technician Signature: *RM*

pH Meter ID : N/A

Supervisor Signature: *12*

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP112987
MS/MSD SPIKE SOL.	1.0ML	WP112986
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP112986
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	0.5-2.0ML	WP111318
H2SO4 0.04N	5.0ML	WP112828
pH Paper 0-14	N/A	W3140
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
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
05/21/2025 1310	<i>RM LWO</i>	<i>RM LWO</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168128BL	PBS128	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168128BS	LCS128	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01DUP	SC-4-SED-051525DUP	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01MS	SC-4-SED-051525MS	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01MSD	SC-4-SED-051525MSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01	SC-4-SED-051525	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-02	SC-3-SED-051525	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-03	SC-2-SED-051525	1.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-07	SC-COMP-SED-051625	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-08	DUPE-1-SC	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : ammonia-soil-5-21

WorkList ID : 189657

Department : Distillation

Date : 05-21-2025 08:12:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2085-01	SC-4-SED-051525	Solid	Ammonia	Cool 4 deg C	USAR03	L41	05/15/2025	SM4500-NH3
Q2085-02	SC-3-SED-051525	Solid	Ammonia	Cool 4 deg C	USAR03	L41	05/15/2025	SM4500-NH3
Q2085-03	SC-2-SED-051525	Solid	Ammonia	Cool 4 deg C	USAR03	L41	05/15/2025	SM4500-NH3
Q2085-07	SC-COMP-SED-051525	Solid	Ammonia	Cool 4 deg C	USAR03	L41	05/16/2025	SM4500-NH3
Q2085-08	DUPE-1-SC	Solid	Ammonia	Cool 4 deg C	USAR03	L41	05/16/2025	SM4500-NH3

Date/Time 05/21/25 10:00

Raw Sample Received by: RMW

Raw Sample Relinquished by: RMW

Date/Time 05/21/2025 12:40

Raw Sample Received by: RMW

Raw Sample Relinquished by: RMW

SOP ID : M365.3 & SM4500-P E-18

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Block ID : WC S-2, WC S-1

Weigh By : IZ

Start Digest Date: 05/28/2025 **Time :** 11:45 **Temp :** 95 °C

End Digest Date: 05/28/2025 **Time :** 12:45 **Temp :** 95 °C

1 batch 05/28/2025 13:10 95 °C
05/28/2025 14:10 96 °C

Digestion tube ID : M5595

Block Thermometer ID : WC-Block#1

Filter paper ID : N/A

Prep Technician Signature: 12

pH Meter ID : N/A

Supervisor Signature: 78

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSS	0.5ML	WP112914
MS/MSD SPIKE SOL.	0.5ML	WP112913
PBS003	50.0ML	W3112
LOD	50.0ML	WP113228
LOQ	50.0ML	WP113229

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP112615
AMMONIUM PERSULFATE	0.4GM	W3035
pH Paper 0-14	N/A	W3140
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
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP113219
CAL2	CAL2	50.0ML	WP113220
CAL3	CAL3	50.0ML	WP113221
CAL4	CAL4	50.0ML	WP113222
CAL5	CAL5	50.0ML	WP113223
CAL6	CAL6	50.0ML	WP113224
ICV	ICV	50.0ML	WP113226
ICB	ICB	50.0ML	W3112
CCV	CCV	50.0ML	WP113225
CCB	CCB	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

05/28/25

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168183BL	PBS183	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168183BS	LCS183	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1872-07	HW0425-PT-NUT-SOIL	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01	SC-4-SED-051525	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01DUP	SC-4-SED-051525DUP	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01MS	SC-4-SED-051525MS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-01MSD	SC-4-SED-051525MSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-02	SC-3-SED-051525	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-03	SC-2-SED-051525	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-07	SC-COMP-SED-051625	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-08	DUPE-1-SC	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-02	LOQ-SOIL-02-QT2-2025	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TotalPhos-052825 WorkList ID : 189781 Department : Distillation Date : 05-28-2025 09:26:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-07	HW0425-PT-NUT-SOIL	Solid	Phosphorus, Total	Cool 4 deg C	ALLI03	QA Of	04/21/2025	365.3
Q2085-01	SC-4-SED-051525	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/15/2025	365.3
Q2085-02	SC-3-SED-051525	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/15/2025	365.3
Q2085-03	SC-2-SED-051525	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/15/2025	365.3
Q2085-07	SC-COMP-SED-051625	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/16/2025	365.3
Q2085-08	DUPE-1-SC	Solid	Phosphorus, Total	Cool 4 deg C	USAR03	L41	05/16/2025	365.3
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	Solid	Phosphorus, Total	Cool 4 deg C	ALLI03	QA Of	05/23/2025	365.3
Q2126-02	LOQ-SOIL-02-QT2-2025	Solid	Phosphorus, Total	Cool 4 deg C	ALLI03	QA Of	05/23/2025	365.3

Date/Time 05/28/25 10:30
 Raw Sample Received by: 12(✓)
 Raw Sample Relinquished by: 28(✓)

Date/Time 05/28/25 12:10
 Raw Sample Received by: 28(✓)
 Raw Sample Relinquished by: 12(✓)

SOP ID : M365.3 & SM4500-P E-18

SDG No : N/A

Start Digest Date: 06/06/2025 Time : 09:20 Temp : 95 °C

Matrix : SOIL

End Digest Date: 06/06/2025 Time : 10:20 Temp : 96 °C

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

Digestion tube ID : M5595

Block Thermometer ID : WC-Block#1

Block ID : WC S-2, WC S-1

Filter paper ID : N/A

Prep Technician Signature: 12

Weigh By : IZ

pH Meter ID : N/A

Supervisor Signature: 26

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	0.5ML	WP112914
MS/MSD SPIKE SOL.	0.5ML	WP112913
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
11N H2SO4	1ML	WP112615
AMMONIUM PERSULFATE	0.4GM	W3035
pH Paper 0-14	N/A	W3140
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
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
CAL1	CAL1	50.0ML	WP113334
CAL2	CAL2	50.0ML	WP113335
CAL3	CAL3	50.0ML	WP113336
CAL4	CAL4	50.0ML	WP113337
CAL5	CAL5	50.0ML	WP113338
CAL6	CAL6	50.0ML	WP113339
ICV	ICV	50.0ML	WP113341
ICB	ICB	50.0ML	W3112
CCV	CCV	50.0ML	WP113340
CCB	CCB	50.0ML	W3112

Extraction Conformance/Non-Conformance Comments:

 N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

06/06/25

12

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168315BL	PBS315	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168315BS	LCS315	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04	SC-1-SED-051625	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04DUP	SC-1-SED-051625DUP	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04MS	SC-1-SED-051625MS	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04MSD	SC-1-SED-051625MSD	1.08	50	N/A	N/A	N/A	N/A	N/A	N/A

SOP ID : MSM4500-N Org C-TKN-11

SDG No : N/A

Start Digest Date: 06/06/2025 Time : 08:25 Temp : 385 °C

Matrix : SOIL

End Digest Date: 06/06/2025 Time : 09:55 Temp : 380 °C

Pipette ID : WC

Start Distillation Date: 06/06/2025 Time : 10:20 Temp : 150 °C

Balance ID : WC SC-7

End Distillation Date: 06/06/2025 Time : 11:20 Temp : 160 °C

Hood ID : HOOD#2&3

Digestion tube ID : M5595

Block Thermometer ID : Therm#2(2179)

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature:

Weigh By : RM

pH Meter ID : N/A

Supervisor Signature:

Standard Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP113416
TKN CCV STD	50.0ML	WP113417
TKN ICV STD	50.0ML	WP113418
TKN LCS STD	50.0ML	WP113419
MS/MSD SPIKE SOL.	0.25ML	WP112611

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP113135
TKN DISTILLATION BUFFER	10.0ML	WP112079
H2SO4 0.04N	5.0ML	WP112828
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
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

RL CHECK 10ML FROM WP113417 ,ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP111604.LOD WP113420,LOQ WP113421

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/06/2025 11:35	RM CWC	RM CWC
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168327BL	PBS327	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168327BS	LCS327	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04DUP	SC-1-SED-051625DUP	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04MS	SC-1-SED-051625MS	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04MSD	SC-1-SED-051625MSD	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04	SC-1-SED-051625	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-02	LOQ-SOIL-02-QT2-2025	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A

SOP ID : MSM4500-NH3 B,G-Ammonia-18

SDG No : N/A

Start Digest Date: 06/06/2025 Time : 08:00 Temp : 150 °C

Matrix : SOIL

End Digest Date: 06/06/2025 Time : 09:00 Temp : 158 °C

Pipette ID : WC

Balance ID : WC SC-7

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 : RM

pH Meter ID : N/A

Supervisor Signature: T2

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP112987
MS/MSD SPIKE SOL.	1.0ML	WP112986
PBS003	50.0ML	W3112
LOD	0.8ML	WP113428
LOQ	1.0ML	WP113428

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	0.5-2.0ML	WP111318
H2SO4 0.04N	5.0ML	WP112828
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
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

RL CHECK WP112986 0.1ML,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
06/06/2025 09:10	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB168328BL	PBS328	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB168328BS	LCS328	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04DUP	SC-1-SED-051625DUP	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04MS	SC-1-SED-051625MS	1.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04MSD	SC-1-SED-051625MSD	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2085-04	SC-1-SED-051625	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-01	LOD-MDL-SOIL-03-QT2-2025	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2126-02	LOQ-SOIL-02-QT2-2025	1.03	50	N/A	N/A	N/A	N/A	N/A	N/A

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135882

Review By	rubina	Review On	5/23/2025 10:22:14 AM
Supervise By	Iwona	Supervise On	5/23/2025 11:26:33 AM
SubDirectory	LB135882	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113183		
ICV Standard	WP113185		
CCV Standard	WP113184		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112987		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	05/22/25 10:54		rubina	OK
2	0.1PPM	0.1PPM	CAL2	05/22/25 10:54		rubina	OK
3	0.2PPM	0.2PPM	CAL3	05/22/25 10:54		rubina	OK
4	0.4PPM	0.4PPM	CAL4	05/22/25 10:54		rubina	OK
5	1.0PPM	1.0PPM	CAL5	05/22/25 10:54		rubina	OK
6	1.3PPM	1.3PPM	CAL6	05/22/25 10:54		rubina	OK
7	2.0PPM	2.0PPM	CAL7	05/22/25 10:54		rubina	OK
8	ICV1	ICV1	ICV	05/22/25 11:50		rubina	OK
9	ICB1	ICB1	ICB	05/22/25 11:50		rubina	OK
10	CCV1	CCV1	CCV	05/22/25 11:50		rubina	OK
11	CCB1	CCB1	CCB	05/22/25 11:50		rubina	OK
12	RL	RL	LOQ	05/22/25 11:50		rubina	OK
13	PB168128BL	PB168128BL	MB	05/22/25 11:50		rubina	OK
14	PB168128BS	PB168128BS	LCS	05/22/25 12:00		rubina	OK
15	Q2085-01	SC-4-SED-051525	SAM	05/22/25 12:01		rubina	OK
16	Q2085-01DUP	SC-4-SED-051525DU	DUP	05/22/25 12:01		rubina	OK
17	Q2085-01MS	SC-4-SED-051525MS	MS	05/22/25 12:01		rubina	OK
18	Q2085-01MSD	SC-4-SED-051525MS	MSD	05/22/25 12:01		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135882

Review By	rubina	Review On	5/23/2025 10:22:14 AM
Supervise By	Iwona	Supervise On	5/23/2025 11:26:33 AM
SubDirectory	LB135882	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113183		
ICV Standard	WP113185		
CCV Standard	WP113184		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112987		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

19	Q2085-02	SC-3-SED-051525	SAM	05/22/25 12:01		rubina	OK
20	Q2085-03	SC-2-SED-051525	SAM	05/22/25 12:01		rubina	OK
21	Q2085-07	SC-COMP-SED-0516	SAM	05/22/25 12:01		rubina	OK
22	CCV2	CCV2	CCV	05/22/25 12:01		rubina	OK
23	CCB2	CCB2	CCB	05/22/25 12:01		rubina	OK
24	Q2085-08	DUPE-1-SC	SAM	05/22/25 12:01		rubina	OK
25	PB168122BL	PB168122BL	MB	05/22/25 12:11		rubina	OK
26	PB168122BS	PB168122BS	LCS	05/22/25 12:11		rubina	OK
27	Q2088-01	252820	SAM	05/22/25 12:11		rubina	OK
28	Q2093-14	WATER-COMP	SAM	05/22/25 12:11		rubina	OK
29	Q2093-14DUP	WATER-COMPDUP	DUP	05/22/25 12:11		rubina	OK
30	Q2093-14MS	WATER-COMPMS	MS	05/22/25 12:11		rubina	OK
31	Q2093-14MSD	WATER-COMPMSD	MSD	05/22/25 12:11		rubina	OK
32	Q2102-03	LAW-25-0078	SAM	05/22/25 12:11		rubina	OK
33	CCV3	CCV3	CCV	05/22/25 12:11		rubina	OK
34	CCB3	CCB3	CCB	05/22/25 12:11		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135888

Review By	rubina	Review On	5/23/2025 10:25:36 AM
Supervise By	Iwona	Supervise On	5/23/2025 11:26:41 AM
SubDirectory	LB135888	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113126		
ICV Standard	WP113128		
CCV Standard	WP113127		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113129		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	05/22/25 14:25		rubina	OK
2	0.5PPM	0.5PPM	CAL2	05/22/25 14:25		rubina	OK
3	1.0PPM	1.0PPM	CAL3	05/22/25 14:25		rubina	OK
4	2.5PPM	2.5PPM	CAL4	05/22/25 14:25		rubina	OK
5	5.0PPM	5.0PPM	CAL5	05/22/25 14:25		rubina	OK
6	6.7PPM	6.7PPM	CAL6	05/22/25 14:26		rubina	OK
7	10.0PPM	10.0PPM	CAL7	05/22/25 14:26		rubina	OK
8	ICV1	ICV1	ICV	05/22/25 15:39		rubina	OK
9	ICB1	ICB1	ICB	05/22/25 15:39		rubina	OK
10	CCV1	CCV1	CCV	05/22/25 15:39		rubina	OK
11	CCB1	CCB1	CCB	05/22/25 15:39		rubina	OK
12	RL	RL	LOQ	05/22/25 15:39		rubina	OK
13	PB168112BL	PB168112BL	MB	05/22/25 15:39		rubina	OK
14	PB168112BS	PB168112BS	LCS	05/22/25 15:50		rubina	OK
15	Q2088-01	252820	SAM	05/22/25 15:50		rubina	OK
16	Q2093-14	WATER-COMP	SAM	05/22/25 15:50		rubina	OK
17	Q2093-14DUP	WATER-COMPDUP	DUP	05/22/25 15:50		rubina	OK
18	Q2093-14MS	WATER-COMPMS	MS	05/22/25 15:50		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135888

Review By	rubina	Review On	5/23/2025 10:25:36 AM
Supervise By	Iwona	Supervise On	5/23/2025 11:26:41 AM
SubDirectory	LB135888	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113126		
ICV Standard	WP113128		
CCV Standard	WP113127		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113129		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

19	Q2093-14MSD	WATER-COMPMSD	MSD	05/22/25 15:50		rubina	OK
20	Q2102-03	LAW-25-0078	SAM	05/22/25 15:50		rubina	OK
21	PB168096BL	PB168096BL	MB	05/22/25 15:50		rubina	OK
22	CCV2	CCV2	CCV	05/22/25 16:01		rubina	OK
23	CCB2	CCB2	CCB	05/22/25 16:01		rubina	OK
24	PB168096BS	PB168096BS	LCS	05/22/25 16:01		rubina	OK
25	Q2085-01	SC-4-SED-051525	SAM	05/22/25 16:01		rubina	OK
26	Q2085-01DUP	SC-4-SED-051525DU	DUP	05/22/25 16:01		rubina	OK
27	Q2085-01MS	SC-4-SED-051525MS	MS	05/22/25 16:01		rubina	OK
28	Q2085-01MSD	SC-4-SED-051525MS	MSD	05/22/25 16:01		rubina	OK
29	Q2085-02	SC-3-SED-051525	SAM	05/22/25 16:01		rubina	OK
30	Q2085-03	SC-2-SED-051525	SAM	05/22/25 16:01		rubina	OK
31	Q2085-07	SC-COMP-SED-0516	SAM	05/22/25 16:01		rubina	OK
32	Q2085-08	DUPE-1-SC	SAM	05/22/25 16:01		rubina	OK
33	CCV3	CCV3	CCV	05/22/25 16:01		rubina	OK
34	CCB3	CCB3	CCB	05/22/25 16:05		rubina	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135894

Review By	rubina	Review On	5/27/2025 2:10:13 PM
Supervise By	Iwona	Supervise On	5/27/2025 2:14:31 PM
SubDirectory	LB135894	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP112403,WP112404,WP112405,WP112406,WP112407		
ICV Standard	WP112408		
CCV Standard	WP113210		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113211		
Chk Standard	WP112446		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	03/14/25 08:33		NF IZ	OK
2	250mg/l	250mg/l	CAL2	03/14/25 08:43		NF IZ	OK
3	500mg/l	500mg/l	CAL3	03/14/25 08:52		NF IZ	OK
4	1000mg/l	1000mg/l	CAL4	03/14/25 09:02		NF IZ	OK
5	2000mg/l	2000mg/l	CAL5	03/14/25 09:13		NF IZ	OK
6	ICV1	ICV1	ICV	03/14/25 09:39		NF IZ	OK
7	ICB1	ICB1	ICB	03/14/25 09:54		NF IZ	OK
8	CCV1	CCV1	CCV	05/23/25 09:02		NF IZ	OK
9	CCB1	CCB1	CCB	05/23/25 09:23		NF IZ	OK
10	LB135894BLS	LB135894BLS	MB	05/23/25 09:38		NF IZ	OK
11	LB135894BSS	LB135894BSS	LCS	05/23/25 09:49		NF IZ	OK
12	Q2085-01	SC-4-SED-051525	SAM	05/23/25 10:01		NF IZ	OK
13	Q2085-02	SC-3-SED-051525	SAM	05/23/25 10:11		NF IZ	OK
14	Q2085-03	SC-2-SED-051525	SAM	05/23/25 10:25		NF IZ	OK
15	Q2085-07	SC-COMP-SED-0516	SAM	05/23/25 11:11		NF IZ	OK
16	Q2085-08	DUPE-1-SC	SAM	05/23/25 11:33		NF IZ	OK
17	Q2085-08MS	DUPE-1-SCMS	MS	05/23/25 12:00	sample + 40ul of WP113210	NF IZ	OK
18	Q2085-08MSD	DUPE-1-SCMSD	MSD	05/23/25 12:14	sample + 40ul of WP113210	NF IZ	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135894

Review By	rubina	Review On	5/27/2025 2:10:13 PM
Supervise By	Iwona	Supervise On	5/27/2025 2:14:31 PM
SubDirectory	LB135894	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP112403,WP112404,WP112405,WP112406,WP112407
ICV Standard	WP112408
CCV Standard	WP113210
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP113211
Chk Standard	WP112446

19	CCV2	CCV2	CCV	05/23/25 12:37		NF IZ	OK
20	CCB2	CCB2	CCB	05/23/25 12:55		NF IZ	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135933

Review By	Iwona	Review On	5/29/2025 12:12:10 PM
Supervise By	Sohil	Supervise On	5/29/2025 12:15:21 PM
SubDirectory	LB135933	Test	Phosphorus, Total
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP113224,WP113223,WP113222,WP113221,WP113220,WP113219,WP113225,WP112831,WP113245,WP111415,V		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/28/25 15:30		Iwona	OK
2	CAL2	CAL2	CAL	05/28/25 15:30		Iwona	OK
3	CAL3	CAL3	CAL	05/28/25 15:31		Iwona	OK
4	CAL4	CAL4	CAL	05/28/25 15:31		Iwona	OK
5	CAL5	CAL5	CAL	05/28/25 15:32		Iwona	OK
6	CAL6	CAL6	CAL	05/28/25 15:32		Iwona	OK
7	ICV	ICV	ICV	05/28/25 15:33		Iwona	OK
8	ICB	ICB	ICB	05/28/25 15:33		Iwona	OK
9	CCV1	CCV1	CCV	05/28/25 15:34		Iwona	OK
10	CCB1	CCB1	CCB	05/28/25 15:34		Iwona	OK
11	RL Check	RL Check	SAM	05/28/25 15:35		Iwona	OK
12	PB168183BL	PB168183BL	MB	05/28/25 15:35		Iwona	OK
13	PB168183BS	PB168183BS	LCS	05/28/25 15:36		Iwona	OK
14	Q1872-07	HW0425-PT-NUT-SO	SAM	05/28/25 15:36		Iwona	OK
15	Q2085-01	SC-4-SED-051525	SAM	05/28/25 15:37		Iwona	OK
16	Q2085-01DUP	SC-4-SED-051525DU	DUP	05/28/25 15:37		Iwona	OK
17	Q2085-01MS	SC-4-SED-051525MS	MS	05/28/25 15:38		Iwona	OK
18	Q2085-01MSD	SC-4-SED-051525MS	MSD	05/28/25 15:38		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135933

Review By	Iwona	Review On	5/29/2025 12:12:10 PM
Supervise By	Sohil	Supervise On	5/29/2025 12:15:21 PM
SubDirectory	LB135933	Test	Phosphorus, Total
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP113224,WP113223,WP113222,WP113221,WP113220,WP113219,WP113225,WP112831,WP113245,WP111415,V		

19	Q2085-02	SC-3-SED-051525	SAM	05/28/25 15:39		Iwona	OK
20	Q2085-03	SC-2-SED-051525	SAM	05/28/25 15:39		Iwona	OK
21	Q2085-07	SC-COMP-SED-0516	SAM	05/28/25 15:40		Iwona	OK
22	CCV2	CCV2	CCV	05/28/25 15:40		Iwona	OK
23	CCB2	CCB2	CCB	05/28/25 15:41		Iwona	OK
24	Q2085-08	DUPE-1-SC	SAM	05/28/25 15:41		Iwona	OK
25	Q2126-01	LOD-MDL-SOIL-03-Q	SAM	05/28/25 15:42		Iwona	OK
26	Q2126-02	LOQ-SOIL-02-QT2-20	SAM	05/28/25 15:42		Iwona	OK
27	Q1872-07DL	HW0425-PT-NUT-SO	SAM	05/28/25 15:43		Iwona	OK
28	Q2085-01MS	SC-4-SED-051525MS	MS	05/28/25 15:43		Iwona	OK
29	Q2085-01MSD	SC-4-SED-051525MS	MSD	05/28/25 15:44		Iwona	OK
30	CCV3	CCV3	CCV	05/28/25 15:44		Iwona	OK
31	CCB3	CCB3	CCB	05/28/25 15:45		Iwona	OK

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QC Batch ID # LB136025

Review By	rubina	Review On	6/6/2025 1:32:44 PM
Supervise By	Iwona	Supervise On	6/6/2025 1:48:37 PM
SubDirectory	LB136025	Test	TOC
STD. NAME	STD REF.#		
ICAL Standard	WP112403,WP112404,WP112405,WP112406,WP112407		
ICV Standard	WP112408		
CCV Standard	WP113411		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113412		
Chk Standard	WP112446		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	BLANK	BLANK	CAL1	03/14/25 08:33		NF IZ	OK
2	250mg/l	250mg/l	CAL2	03/14/25 08:43		NF IZ	OK
3	500mg/l	500mg/l	CAL3	03/14/25 08:52		NF IZ	OK
4	1000mg/l	1000mg/l	CAL4	03/14/25 09:02		NF IZ	OK
5	2000mg/l	2000mg/l	CAL5	03/14/25 09:13		NF IZ	OK
6	ICV1	ICV1	ICV	03/14/25 09:39		NF IZ	OK
7	ICB1	ICB1	ICB	03/14/25 09:54		NF IZ	OK
8	CCV1	CCV1	CCV	06/06/25 08:22		NF IZ	OK
9	CCB1	CCB1	CCB	06/06/25 08:43		NF IZ	OK
10	LB136025BLS	LB136025BLS	MB	06/06/25 08:56		NF IZ	OK
11	LB136025BSS	LB136025BSS	LCS	06/06/25 09:05		NF IZ	OK
12	Q2085-04	SC-1-SED-051625	SAM	06/06/25 09:19		NF IZ	OK
13	CCV2	CCV2	CCV	06/06/25 09:36		NF IZ	OK
14	CCB2	CCB2	CCB	06/06/25 09:53		NF IZ	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136037

Review By	Iwona	Review On	6/6/2025 11:38:38 AM
Supervise By	jignesh	Supervise On	6/6/2025 11:54:36 AM
SubDirectory	LB136037	Test	Phosphorus, Total
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP113339,WP113338,WP113337,WP113336,WP113335,WP113334,WP113340,WP112831,WP113414,WP113378,V		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/06/25 11:10		Iwona	OK
2	CAL2	CAL2	CAL	06/06/25 11:10		Iwona	OK
3	CAL4	CAL4	CAL	06/06/25 11:11		Iwona	OK
4	CAL5	CAL5	CAL	06/06/25 11:12		Iwona	OK
5	CAL6	CAL6	CAL	06/06/25 11:12		Iwona	OK
6	ICV	ICV	ICV	06/06/25 11:13		Iwona	OK
7	ICB	ICB	ICB	06/06/25 11:13		Iwona	OK
8	CCV1	CCV1	CCV	06/06/25 11:14		Iwona	OK
9	CCB1	CCB1	CCB	06/06/25 11:14		Iwona	OK
10	RL Check	RL Check	SAM	06/06/25 11:15		Iwona	OK
11	PB168315BL	PB168315BL	MB	06/06/25 11:15		Iwona	OK
12	CAL3	CAL3	CAL	06/06/25 11:16		Iwona	OK
13	PB168315BS	PB168315BS	LCS	06/06/25 11:16		Iwona	OK
14	Q2085-04	SC-1-SED-051625	SAM	06/06/25 11:16		Iwona	OK
15	Q2085-04DUP	SC-1-SED-051625DU	DUP	06/06/25 11:17		Iwona	OK
16	Q2085-04MS	SC-1-SED-051625MS	MS	06/06/25 11:17		Iwona	OK
17	Q2085-04MSD	SC-1-SED-051625MS	MSD	06/06/25 11:18		Iwona	OK
18	CCV2	CCV2	CCV	06/06/25 11:18		Iwona	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136037

Review By	Iwona	Review On	6/6/2025 11:38:38 AM
Supervise By	jignesh	Supervise On	6/6/2025 11:54:36 AM
SubDirectory	LB136037	Test	Phosphorus, Total
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP113339,WP113338,WP113337,WP113336,WP113335,WP113334,WP113340,WP112831,WP113414,WP113378,V		

19	CCB2	CCB2	CCB	06/06/25 11:19		Iwona	OK
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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136039

Review By	rubina	Review On	6/6/2025 1:49:03 PM
Supervise By	Iwona	Supervise On	6/6/2025 1:50:40 PM
SubDirectory	LB136039	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113425		
ICV Standard	WP113427		
CCV Standard	WP113426		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112987		
Chk Standard	WP113429,WP111745,WP111385,WP111660,WP113415,WP113428		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	06/06/25 09:55		rubina	OK
2	0.1PPM	0.1PPM	CAL2	06/06/25 09:55		rubina	OK
3	0.2PPM	0.2PPM	CAL3	06/06/25 09:55		rubina	OK
4	0.4PPM	0.4PPM	CAL4	06/06/25 09:55		rubina	OK
5	1.0PPM	1.0PPM	CAL5	06/06/25 09:55		rubina	OK
6	1.3PPM	1.3PPM	CAL6	06/06/25 09:55		rubina	OK
7	2.0PPM	2.0PPM	CAL7	06/06/25 09:56		rubina	OK
8	ICV1	ICV1	ICV	06/06/25 11:16		rubina	OK
9	ICB1	ICB1	ICB	06/06/25 11:16		rubina	OK
10	CCV1	CCV1	CCV	06/06/25 11:16		rubina	OK
11	CCB1	CCB1	CCB	06/06/25 11:16		rubina	OK
12	RL	RL	SAM	06/06/25 11:16		rubina	OK
13	PB168326BL	PB168326BL	MB	06/06/25 11:16		rubina	OK
14	PB168326BS	PB168326BS	LCS	06/06/25 11:26		rubina	OK
15	Q2126-07	LOD-MDL-WATER-01	SAM	06/06/25 11:26		rubina	OK
16	Q2126-08	LOQ-WATER-02-QT2	LOQ	06/06/25 11:27		rubina	OK
17	Q2191-01	EFFLUENT	SAM	06/06/25 11:27	High	rubina	Dilution
18	Q2191-04	AERATION-1	SAM	06/06/25 11:27	High	rubina	Dilution

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136039

Review By	rubina	Review On	6/6/2025 1:49:03 PM
Supervise By	Iwona	Supervise On	6/6/2025 1:50:40 PM
SubDirectory	LB136039	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113425		
ICV Standard	WP113427		
CCV Standard	WP113426		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112987		
Chk Standard	WP113429,WP111745,WP111385,WP111660,WP113415,WP113428		

19	Q2203-01	001-WILLETS-PT-BL	SAM	06/06/25 11:27	High	rubina	Dilution
20	Q2203-01DUP	001-WILLETS-PT-BL	DUP	06/06/25 11:27	High	rubina	Dilution
21	Q2203-01MS	001-WILLETS-PT-BL	MS	06/06/25 11:27		rubina	OK
22	CCV2	CCV2	CCV	06/06/25 11:37		rubina	OK
23	CCB2	CCB2	CCB	06/06/25 11:37		rubina	OK
24	Q2203-01MSD	001-WILLETS-PT-BL	MSD	06/06/25 11:37		rubina	OK
25	Q2203-04	002-35TH-AVE(JUNE	SAM	06/06/25 11:37	High	rubina	Dilution
26	Q2243-01	WATER-TREATMENT	SAM	06/06/25 11:37		rubina	OK
27	RL	RL	SAM	06/06/25 11:37		rubina	OK
28	PB168328BL	PB168328BL	MB	06/06/25 11:37		rubina	OK
29	PB168328BS	PB168328BS	LCS	06/06/25 11:48		rubina	OK
30	Q2085-04	SC-1-SED-051625	SAM	06/06/25 11:48		rubina	OK
31	Q2085-04DUP	SC-1-SED-051625DU	DUP	06/06/25 11:48		rubina	OK
32	Q2085-04MS	SC-1-SED-051625MS	MS	06/06/25 11:48		rubina	OK
33	Q2085-04MSD	SC-1-SED-051625MS	MSD	06/06/25 11:48		rubina	OK
34	CCV3	CCV3	CCV	06/06/25 11:48		rubina	OK
35	CCB3	CCB3	CCB	06/06/25 11:58		rubina	OK
36	Q2126-01	LOD-MDL-SOIL-03-Q	SAM	06/06/25 11:58		rubina	OK
37	Q2126-02	LOQ-SOIL-02-QT2-20	LOQ	06/06/25 11:58		rubina	OK
38	CCV4	CCV4	CCV	06/06/25 11:58		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136039

Review By	rubina	Review On	6/6/2025 1:49:03 PM
Supervise By	Iwona	Supervise On	6/6/2025 1:50:40 PM
SubDirectory	LB136039	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP113425		
ICV Standard	WP113427		
CCV Standard	WP113426		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112987		
Chk Standard	WP113429,WP111745,WP111385,WP111660,WP113415,WP113428		

39	CCB4	CCB4	CCB	06/06/25 11:58		rubina	OK
40	Q2191-01DL	EFFLUENTDL	SAM	06/06/25 12:25	Report 10X	rubina	Confirms
41	Q2191-04DL	AERATION-1DL	SAM	06/06/25 12:25	Report 10X	rubina	Confirms
42	Q2203-01DL	001-WILLETS-PT-BL	SAM	06/06/25 12:25	Report 5X	rubina	Confirms
43	Q2203-01DUPDL	001-WILLETS-PT-BL	DUP	06/06/25 12:25	Report 5X	rubina	Confirms
44	Q2203-04DL	002-35TH-AVE(JUNE	SAM	06/06/25 12:25	Report 5X	rubina	Confirms
45	CCV5	CCV5	CCV	06/06/25 12:25		rubina	OK
46	CCB5	CCB5	CCB	06/06/25 12:30		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136043

Review By	rubina	Review On	6/6/2025 3:26:20 PM
Supervise By	Iwona	Supervise On	6/6/2025 3:26:55 PM
SubDirectory	LB136043	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113416		
ICV Standard	WP113418		
CCV Standard	WP113417		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113419		
Chk Standard	WP113429,WP111745,WP111385,WP111660,WP113420,WP113421		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	06/06/25 13:02		Iwona	OK
2	0.5PPM	0.5PPM	CAL2	06/06/25 13:02		Iwona	OK
3	1.0PPM	1.0PPM	CAL3	06/06/25 13:02		Iwona	OK
4	2.5PPM	2.5PPM	CAL4	06/06/25 13:02		Iwona	OK
5	5.0PPM	5.0PPM	CAL5	06/06/25 13:02		Iwona	OK
6	6.7PPM	6.7PPM	CAL6	06/06/25 13:02		Iwona	OK
7	10.0PPM	10.0PPM	CAL7	06/06/25 13:02		Iwona	OK
8	ICV1	ICV1	ICV	06/06/25 14:29		Iwona	OK
9	ICB1	ICB1	ICB	06/06/25 14:29		Iwona	OK
10	CCV1	CCV1	CCV	06/06/25 14:29		Iwona	OK
11	CCB1	CCB1	CCB	06/06/25 14:29		Iwona	OK
12	RL	RL	SAM	06/06/25 14:29		Iwona	OK
13	PB168327BL	PB168327BL	MB	06/06/25 14:29		Iwona	OK
14	PB168327BS	PB168327BS	LCS	06/06/25 14:29		Iwona	OK
15	Q2085-04	SC-1-SED-051625	SAM	06/06/25 14:29		Iwona	OK
16	Q2085-04DUP	SC-1-SED-051625DUP	DUP	06/06/25 14:39		Iwona	OK
17	Q2085-04MS	SC-1-SED-051625MS	MS	06/06/25 14:39		Iwona	OK
18	Q2085-04MSD	SC-1-SED-051625MSD	MSD	06/06/25 14:39		Iwona	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB136043

Review By	rubina	Review On	6/6/2025 3:26:20 PM
Supervise By	Iwona	Supervise On	6/6/2025 3:26:55 PM
SubDirectory	LB136043	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP113416		
ICV Standard	WP113418		
CCV Standard	WP113417		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113419		
Chk Standard	WP113429,WP111745,WP111385,WP111660,WP113420,WP113421		

19	Q2126-01	LOD-MDL-SOIL-03-Q	SAM	06/06/25 14:39		Iwona	OK
20	Q2126-02	LOQ-SOIL-02-QT2-20	LOQ	06/06/25 14:39		Iwona	OK
21	PB168332BL	PB168332BL	MB	06/06/25 14:39		Iwona	OK
22	CCV2	CCV2	CCV	06/06/25 14:39		Iwona	OK
23	CCB2	CCB2	CCB	06/06/25 14:39		Iwona	OK
24	PB168332BS	PB168332BS	LCS	06/06/25 14:39		Iwona	OK
25	Q2126-07	LOD-MDL-WATER-01	SAM	06/06/25 14:39		Iwona	OK
26	Q2126-08	LOQ-WATER-02-QT2	LOQ	06/06/25 14:46		Iwona	OK
27	CCV3	CCV3	CCV	06/06/25 14:46		Iwona	OK
28	CCB3	CCB3	CCB	06/06/25 14:46		Iwona	OK

Prep Standard - Chemical Standard Summary

Order ID : Q2085
Test : Ammonia,Percent Solids,Phosphorus, Total,TKN,TOC
Prepbatch ID : PB168096,PB168128,PB168183,
Sequence ID/Qc Batch ID: LB135882,LB135888,LB135894,LB135933,

Standard ID :
WP111317,WP111318,WP111323,WP111325,WP111385,WP111415,WP111436,WP111437,WP111660,WP111745,WP112403,WP112404,WP112405,WP112406,WP112407,WP112408,WP112446,WP112611,WP112612,WP112615,WP112828,WP112831,WP112897,WP112903,WP112913,WP112914,WP112986,WP112987,WP113112,WP113113,WP113126,WP113127,WP113128,WP113129,WP113135,WP113183,WP113184,WP113185,WP113210,WP113211,WP113219,WP113220,WP113221,WP113222,WP113223,WP113224,WP113225,WP113226,WP113227,WP113228,WP113229,WP113244,WP113245,

Chemical ID :
M6041,W2306,W2650,W2664,W2666,W2700,W2784,W2788,W2858,W2860,W2983,W3035,W3074,W3112,W3113,W3132,W3140,W3168,W3169,W3174,W3195,W3196,W3198,W3199,W3206,



<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_SCALE_7 (WC SC-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u>	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 (WCS-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_SCALE_8 (WC	None	Iwona Zarych 01/09/2025

FROM	4.00000gram of W3113 + 96.00000ml of W3112 = Final Quantity: 100.000 ml	SC-7)
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<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	WETCHEM_SCALE_5 (WC	None	Iwona Zarych 01/09/2025

FROM	TO	SC-5)
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_SCALE_8 (WCS-7)	None	Iwona Zarych 01/13/2025
<u>FROM</u> 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>
1213	Phenolphthalein indicator	WP111415	01/15/2025	06/04/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 01/16/2025
<u>FROM</u> 0.10000gram of W2650 + 50.00000ml of W2788 + 50.00000ml of W3112 = Final Quantity: 100.000 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>
2051	TOC STOCK STD-SS, 4000PPM	WP111437	01/15/2025	06/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WC)	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/16/2025
<u>FROM</u>	5.00000ml of W2860 + 8.51200gram of W2784 + 990.00000ml 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>
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>
304	TOC CAL 0.00ppm	WP112403	03/14/2025	03/21/2025	Niha Farheen Shaik	None	None	Iwona Zarych
								03/20/2025

FROM 100.00000ml 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>
712	TOC SOIL cal 250ppm	WP112404	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3	Iwona Zarych
							(WC)	03/20/2025

FROM 15.00000ml of W3112 + 1.00000ml of WP111436 = Final Quantity: 16.000 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>
710	TOC SOIL cal 500ppm	WP112405	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 03/20/2025
<u>FROM</u> 14.00000ml of W3112 + 2.00000ml of WP111436 = Final Quantity: 16.000 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>
3544	TOC SOIL Cal- CCV 1000PPM	WP112406	03/14/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025
<u>FROM</u> 15.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 20.000 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>
713	TOC SOIL cal 2000ppm	WP112407	03/14/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 5.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 10.000 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>
2819	TOC ICV-LCSS, 1000PPM	WP112408	03/14/2025	03/21/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 03/20/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111437 = Final Quantity: 20.000 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>
613	Phosphoric acid reagent	WP112446	03/25/2025	09/25/2025	Niha Farheen Shaik	None	None	Iwona Zarych
								03/26/2025

FROM 150.00000ml of W3112 + 50.00000ml of W2860 = Final Quantity: 200.000 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>
153	Ammonia Stock Std. (1000 ppm)	WP112611	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych
								04/07/2025

FROM 3.81900gram of W3196 + 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	WP112612	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 04/07/2025
<u>FROM</u>	3.81900gram of W3195 + 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>
1211	11 N sulfuric acid	WP112615	04/03/2025	10/07/2025	Niha Farheen Shaik	None	None	Iwona Zarych 04/07/2025
<u>FROM</u> 306.00000ml of M6041 + 694.00000ml 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>
1597	0.04 N H2SO4	WP112828	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/25/2025

FROM 1.00000ml of M6041 + 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>
126	5N sulfuric acid	WP112831	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych 04/25/2025

FROM 140.00000ml of M6041 + 860.00000ml 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>
740	sodium nitroferricyanide for ammonia	WP112897	04/30/2025	05/30/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 05/01/2025
<u>FROM</u> 0.05000gram of W2666 + 99.95000ml 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>
190	HEX CHROME PHOSPHATE BUFFER	WP112903	05/01/2025	11/01/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 05/01/2025
<u>FROM</u> 0.84500L of W3112 + 68.04000gram of W3206 + 87.09000gram of W3168 = 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>
115	Phosphate Stock Std. (50 ppm)	WP112913	05/01/2025	11/01/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/06/2025
<u>FROM</u> 0.11000gram of W3198 + 500.00000ml of W3112 = Final Quantity: 500.000 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>
2790	Phosphate Stock std, 50PPM-SS	WP112914	05/01/2025	11/01/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh
FROM 0.11000gram of W3206 + 500.00000ml of W3112 = Final Quantity: 500.000 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	WP112986	05/07/2025	06/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 05/07/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP112611 = 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>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP112987	05/07/2025	06/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 05/07/2025
<u>FROM</u> 95.00000ml of W3112 + 5.00000ml of WP112612 = 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>
648	Ammonium molybdate solution	WP113112	05/16/2025	11/16/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCS-5)	None	Jignesh Parikh 05/16/2025
<u>FROM</u> 20.00000gram of W2664 + 480.00000ml of W3112 = Final Quantity: 500.000 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>
588	Potassium Antimonyl Tartrate	WP113113	05/16/2025	11/16/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/16/2025
<u>FROM</u>	1.37150gram of W2306 + 500.00000ml of W3112 = Final Quantity: 500.000 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>
295	TKN Calibration Std (10 ppm)	WP113126	05/19/2025	05/26/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 49.50000ml of W3112 + 0.50000ml of WP112611 = 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>
297	TKN CCV STD 5 ppm	WP113127	05/19/2025	05/26/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 05/20/2025
<u>FROM</u> 49.75000ml of W3112 + 0.25000ml of WP112611 = Final Quantity: 50.000 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>
296	TKN ICV STD 5 ppm	WP113128	05/19/2025	05/26/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/20/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP112612 = 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>
298	TKN LCS STD 5 ppm	WP113129	05/19/2025	05/26/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/20/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP112612 = 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>
275	Ammonia Calibration Std. (2 ppm)	WP113183	05/22/2025	05/23/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 05/22/2025
<u>FROM</u> 48.00000ml of W3112 + 2.00000ml of WP112986 = Final Quantity: 50.000 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>
285	Ammonia CCV Std. (1 ppm)	WP113184	05/22/2025	05/23/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 05/22/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP112986 = 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)	WP113185	05/22/2025	05/23/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Jignesh Parikh 05/22/2025
FROM 49.00000ml of W3112 + 1.00000ml of WP112987 = Final Quantity: 50.000 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>
3544	TOC SOIL Cal- CCV 1000PPM	WP113210	05/23/2025	05/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/28/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 20.000 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>
2819	TOC ICV-LCSS, 1000PPM	WP113211	05/23/2025	05/30/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/28/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111437 = Final Quantity: 20.000 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>
122	calibration std. 0 ppm	WP113219	05/28/2025	05/29/2025	Rubina Mughal	None	None	Iwona Zarych
								05/28/2025

FROM 100.00000ml 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>
121	calibration std. phosphate 0.05 ppm	WP113220	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_FIPETTE_3	Iwona Zarych
							(WC)	05/28/2025

FROM 99.90000ml of W3112 + 0.10000ml of WP112913 = 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>
120	calibration std. phosphate 0.1 ppm	WP113221	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.80000ml of W3112 + 0.20000ml of WP112913 = 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>
119	calibration std. phosphate 0.3 ppm	WP113222	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.40000ml of W3112 + 0.60000ml of WP112913 = 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>
118	calibration std. phosphate 0.5 ppm	WP113223	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP112913 = 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>
117	calibration std. phosphate 1 ppm	WP113224	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 98.00000ml of W3112 + 2.00000ml of WP112913 = 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>
124	phosphate CCV std.	WP113225	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP112913 = 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>
3805	Phosphate ICV-LCS Std	WP113226	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025
FROM 99.00000ml of W3112 + 1.00000ml of WP112914 = 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>
3907	Phosphate MDL-LOD-LOQ spike solution, 5ppm	WP113227	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 05/28/2025
<u>FROM</u>	9.00000ml of W3112 + 1.00000ml of WP112913 = Final Quantity: 10.000 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>
3814	Phosphate LOD-MDL Std 0.025ppm	WP113228	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 05/28/2025
<u>FROM</u> 99.50000ml of W3112 + 0.50000ml of WP113227 = 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>
3730	Phosphatase LOQ std, 0.05PPM	WP113229	05/28/2025	05/29/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/28/2025

FROM 99.00000ml of W3112 + 1.00000ml of WP113227 = 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>
590	Ascorbic Acid	WP113244	05/28/2025	05/29/2025	Iwona Zarych	WETCHEM_S CALE_5 (WC SC-5)	None	Jignesh Parikh 05/28/2025

FROM 0.52800gram of W3074 + 30.00000ml of W3112 = Final Quantity: 30.000 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>
658	Combined reagent	WP113245	05/28/2025	05/29/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/28/2025
<u>FROM</u>	15.00000ml of WP113112 + 30.00000ml of WP113244 + 5.00000ml of WP113113 + 50.00000ml of WP112831 = Final Quantity: 100.000 ml							

CHEMICAL RECEIPT LOG BOOK

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	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A1561-500GM / POTASSIUM ANTIMONY TARTRATE TRIHYDRATE, 500G	2GH0057	12/11/2027	12/11/2017 / apatel	12/11/2017 / apatel	W2306

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2870-1 / PHENOLPHTHALEIN, INDICATOR F/TITRATION, 500G	0000235350	06/04/2025	01/31/2020 / AMANDEEP	01/20/2020 / apatel	W2650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J07716-1 / Ammonium Molybdate 500G	0000234410	02/11/2026	02/10/2020 / AMANDEEP	01/31/2020 / apatel	W2664

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC16721-3 / Isopropanol, 99%	C20F23007	06/23/2025	12/30/2020 / apatel	12/30/2020 / apatel	W2788

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 #
PCI Scientific Supply, Inc.	J0260-3 / Phosphoric Acid, 2.5 L	0000278313	01/31/2026	07/12/2021 / apatel	07/12/2021 / apatel	W2860

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3278-5 / Potassium Sulfate, 2.5 Kgs	SLCM9788	11/21/2027	11/21/2022 / lwona	11/21/2022 / lwona	W2983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	BDH0214-500G / Ammonium Persulfate Crystal, 500g	MKCR9319	06/30/2028	03/05/2024 / lwona	06/06/2023 / lwona	W3035

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0938-7 / Ascorbic Acid, 500 gms	MKCS4627	09/30/2025	01/16/2024 / lwona	01/16/2024 / lwona	W3074

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.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	10D0142	09/17/2029	09/17/2024 / lwona	09/17/2024 / lwona	W3140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	24H0856239	04/19/2028	01/03/2025 / lwona	01/03/2025 / lwona	W3168

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / lwona	01/03/2025 / lwona	W3169

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 #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	24L0356561	08/31/2027	03/19/2025 / lwona	03/19/2025 / lwona	W3195

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	MKCV1009	09/30/2026	03/19/2025 / lwona	03/19/2025 / lwona	W3196

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYST, ACS, 500G	MKCV6723	10/31/2028	04/11/2025 / lwona	04/11/2025 / lwona	W3198

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	0330-500G / Cupric Sulfate Pentahydrate	24H0956271	05/31/2027	04/11/2025 / lwona	04/11/2025 / lwona	W3199

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G	MKCX1379	01/31/2029	04/29/2025 / lwona	04/29/2025 / lwona	W3206



CERTIFICATE OF ANALYSIS

Printed: 12/8/2017

Page 1 of 1

Customer No : 30017
Order Number : 3008126
Catalog : A1561

Customer : PCI SCIENTIFIC
Delivery # : 58495347
Potassium Antimony Tartrate Trihydrate,
Reagent, ACS

Customer PO : 6035343

Lot : 2GH0057

Chemical Formula : $C_8H_4K_2O_{12}Sb_2 \cdot 3H_2O$
CAS# : 28300-74-5

Formula Weight : 667.87

W2306
received
12/11/17
AB

Test

Limit
Min. Max.

Results

ASSAY ($C_8H_4K_2O_{12}Sb_2 \cdot 3HO$)	99.0 - 103.0 %	101.0 %
TITRATABLE ACID OR BASE	-- 0.020 meq/g	<0.020 meq/g
LOSS ON DRYING	-- 2.7 %	<2.7 %
ARSENIC (As)	-- 0.015 %	<0.015 %
APPEARANCE		WHITE POWDER
DATE OF MANUFACTURE		29-DEC-2015

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

Read and understand label and MSDS/SDS before handling any chemical. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. The customer must ensure to provide its users adequate hazardous material training and appropriate protective gears before handling our chemicals.

Certificate of Analysis Results Certified By:

Ammonium Molybdate, 4-Hydrate, Crystal
BAKER ANALYZED® A.C.S. Reagent

(ammonium heptamolybdate, tetrahydrate)



Material No.: 0716-01
Batch No.: 0000234410
Manufactured Date: 2019/02/13
Retest Date: 2026/02/11
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (as MoO ₃)	81.0 – 83.0 %	81.4
ACS – Insoluble Matter	<= 0.005 %	< 0.001
Chloride (Cl)	<= 0.002 %	< 0.002
Nitrate (NO ₃)	Passes Test	PT
Arsenate, Phosphate and Silicate (as SiO ₂)	<= 0.001 %	< 0.001
ACS – Phosphate (PO ₄)	<= 5 ppm	< 5
Sulfate (SO ₄)	<= 0.02 %	< 0.02
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Magnesium (Mg)	<= 0.005 %	< 0.001
Potassium (K)	<= 0.01 %	< 0.01
Sodium (Na)	<= 0.01 %	<0.001

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

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

James Ethier
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

Phenolphthalein, Powder
BAKER ANALYZED® A.C.S. Reagent



Material No.: 2870-01
Batch No.: 0000235350
Manufactured Date: 2018/06/06
Retest Date: 2025/06/04
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
ACS – Clarity of Solution	Passes Test	PT
Visual Transition Interval – pH...8.0 (Colorless)	Passes Test	PT
Visual Transition Interval – pH...10.0 (Red)	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: CN
Packaging Site: Paris 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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Phosphoric Acid
BAKER ANALYZED® A.C.S. Reagent

(orthophosphoric acid)



Material No.: 0260-03
Batch No.: 0000278313
Manufactured Date: 2021/02/01
Retest Date: 2026/01/31
Revision No: 2

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (H ₃ PO ₄) (by acidimetry)	85.0 – 87.0 %	85.8
Calcium (Ca)	<= 0.002 %	< 0.001
Color (APHA)	<= 10	5
Insoluble Matter	<= 0.001 %	< 0.001
ACS – Magnesium (Mg)	<= 0.002 %	< 0.002
Sulfate (SO ₄)	<= 12 ppm	< 4
Volatile Acids (as CH ₃ COOH)	<= 0.001 %	0.001
Reducing Substances	Passes Test	PT
Chloride (Cl)	<= 3 ppm	< 1
Nitrate (NO ₃)	<= 5 ppm	< 2
Trace Impurities – Antimony (Sb)	<= 20.000 ppm	0.007
Trace Impurities – Arsenic (As)	<= 0.500 ppm	< 0.001
Trace Impurities – Iron (Fe)	<= 10.000 ppm	< 1.000
Heavy Metals (as Pb)	<= 8 ppm	< 3
Trace Impurities – Manganese (Mn)	<= 0.500 ppm	0.005
Trace Impurities – Potassium (K)	<= 40.000 ppm	< 0.001
Trace Impurities – Sodium (Na)	<= 200.000 ppm	0.082

For Laboratory, Research or Manufacturing Use

Exceeds A.C.S. Specifications

Meets Reagent Specifications for testing USP/NF monographs

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

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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CERTIFICATE OF ANALYSIS

Product Name ISOPROPYL ALCOHOL, 99%
Grade Meets ACS/USP/NF Monographs
Catalog # 231000099, zp231000099
Lot # C20F23007
Date of Manufacture: 06/23/20 **W2788 Received on 12/30/2020 by AP**
Recommended Retest Date: Five Years from Date of Manufacture

TEST	MONO GRAPH	SPECIFICATION	RESULT
Assay (corrected for water)	USP	99.0% min	99.92%
Assay (corrected for water)	ACS	99.5% min	
Solubility in water	ACS ⁺	To Pass Test	Pass
Appearance	ACS ⁺	Clear, colorless liquid	Pass
Color, APHA	ACS	10 max	1
Limit of Nonvolatile Residue	USP ⁺	NMT 2.5 mg (0.005%)	0.1 mg
Residue after Evaporation	ACS ⁺	0.001% max	< 0.001%
Specific Gravity	USP	0.783 - 0.787 @25°C	0.783
Identification A - Infrared Absorption	USP	To Pass Test	Pass
Identification B	USP	To Pass Test	Pass
Refractive Index @ 20°C	USP	1.376-1.378	1.377
Acidity	USP ⁺	NMT 0.70 ml of 0.020N NaOH is required	0.30 mL
Titration Acid or Base	ACS ⁺	0.0001 meq/g max	0.0001 meq/g
Carbonyl Compounds	ACS	Propionaldehyde 0.002% max	< 0.002%
		Acetone 0.002% max	None Detected
Limit of Volatile Impurities	USP	Diethyl Ether NMT 0.1%	< 0.1%
		Acetone NMT 0.1%	None Detected
		Diisopropyl Ether NMT 0.1%	< 0.1%
		n-Propyl Alcohol NMT 0.1%	< 0.1%
		2-Butanol NMT 0.1%	< 0.1%
		Total NMT 1.0%	< 0.1%
Water, wt%	ACS	NMT 0.2%	0.05%
Water Determination	USP	NMT 0.5%	

⁺This test is performed quarterly

Certification and Compliance Statements

This lot of Isopropyl Alcohol complies with all of the current requirements listed in the United States Pharmacopeia, American Chemical Society monographs and the National Formulary.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Isopropyl Alcohol. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in IPA. Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467>.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

Approved by: D. Simoncelli, Quality Control Chemist

Date of Approval: 06/23/2020



~~112778~~ W2983
Rec. 11/21/22 12

Product Name:

Certificate of Analysis**Potassium sulfate - ReagentPlus® , ≥99.0%**

Product Number: P0772
Batch Number: SLCM9788
Brand: SIGALD
CAS Number: 7778-80-5
MDL Number: MFCD00011388
Formula: K₂O₄S
Formula Weight: 174.26 g/mol
Quality Release Date: 03 MAR 2022



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
10 g plus 150 mL, H ₂ O		
Titration with NaOH	≥ 99.0 %	99.2 %



Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri 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.



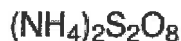
W 3035
rec. 6/6/23 12

Product Name:

Certificate of Analysis

Ammonium persulfate - ACS reagent, $\geq 98.0\%$

Product Number: 248614
Batch Number: MKCR9319
Brand: SIGALD
CAS Number: 7727-54-0
MDL Number: MFCD00003390
Formula Weight: 228.20 g/mol
Quality Release Date: 13 OCT 2022



Test	Specification	Result
Appearance (Color)	White to Off White	White
Appearance (Form)	Powder or Crystals or Granules or Chunks	Crystals
ICP Major Analysis	Confirmed	Confirmed
Confirms Sulfur Component		
Titration by KMNO ₄	$\geq 98.0 \%$	100.0 %
Residue on ignition (Ash)	$\leq 0.05 \%$	$< 0.05 \%$
Insoluble Matter	$\leq 0.005 \%$	0.002 %
c = 10 %; In Water		
Chloride and Chlorate (as Cl)	$\leq 0.001 \%$	$< 0.001 \%$
Iron (Fe)	$\leq 0.001 \%$	$< 0.001 \%$
Heavy Metal	$\leq 0.005 \%$	$< 0.001 \%$
as Lead		
Manganese (Mn)	$\leq 0.5 \text{ ppm}$	$< 0.1 \text{ ppm}$
Titrateable Acid (meq/g)	≤ 0.04	< 0.04
Meets ACS Requirements	Current ACS Specification	Conforms


Larry Coers, Director
Quality Control
Milwaukee, WI US

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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

ThermoFisher
SCIENTIFIC

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	P243	Quality Test / Release Date	06/19/2020
Lot Number	201089		
Description	POTASSIUM HYDROGEN PHTHALATE, ACIDIMETRIC STANDARD, A.C.S.		
Country of Origin	Spain	Suggested Retest Date	Jun/2025
Chemical Origin	Organic - non animal		
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.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	WHITE CRYSTALS
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	100.03
CHLORINE COMPOUNDS	%	<= 0.003	<0.003
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.00
SODIUM (Na)	%	<= 0.005	<0.005
SULFUR COMPOUNDS	%	<= 0.002	<0.002%
TRACEABLE TO NIST	SOD CARBONATE	= LOT 351a	351a
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	84L



Julian Burton - Quality Control Manager – 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.

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

 **avantor™**

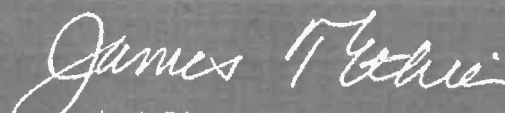


Material No.: 9673-33
Batch No.: 23D2462010

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


Jamie Ethier
Vice President Global Quality

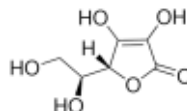
W3074 Rec. on 01/16/24 by IZ

Certificate of Analysis

Product Name:

L-Ascorbic acid - ACS reagent, ≥99%

Product Number: 255564
Batch Number: MKCS4627
Brand: SIAL
CAS Number: 50-81-7
MDL Number: MFCD00064328
Formula: C₆H₈O₆
Formula Weight: 176.12 g/mol
Quality Release Date: 21 NOV 2022
Recommended Retest Date: SEP 2025



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Conforms to Requirements	Powder
Powder, Crystals, Crystalline Powder, Granules and/or Chunks		
Infrared Spectrum	Conforms to Structure	Conforms
Optical Rotation (+); c = 10%; Water	20.5 - 21.5 deg	20.7 deg
Titration by Iodine	≥ 99.0 %	99.4 %
Residue on Ignition	≤ 0.10 %	0.03 %
Iron (Fe)	≤ 0.001 %	< 0.001 %
Heavy Metals by ICP-OES	≤ 0.002 %	0.001 %
Recommended Retest Period 3 Years	-----	-----
Meets ACS Requirements	Current ACS Specification	Conforms

Larry Coers, Director
Quality Control
Milwaukee, WI US

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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.



Material	BDH9266-500G
Material Description	BDH POTASS PHOSPHAT DBSC 500GM
Grade	ACS GRADE
Batch	24H0856239
Reassay Date	04/19/2028
CAS Number	7758-11-4
Molecular Formula	K ₂ HPO ₄
Molecular Mass	174.18
Date of Manufacture	04/19/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Fine white crystalline powder	Fine white crystalline powder
Chloride	<= 0.003 %	0.002 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0005 %
Insolubles	<= 0.01 %	<0.01 %
Iron	<= 0.001 %	<0.001 %
Loss on Drying	<= 1.0 %	<0.5 %
Nitrogen Compounds	<= 0.001 %	<0.001 %
pH (5%, Water) @25C	8.5 - 9.6	8.8
Purity	>= 98.0 %	99.1 %
Sodium	<= 0.05 %	<0.05 %
Sulfate	<= 0.005 %	<0.002 %
CUSTOMER PART # BDH9266-500G		

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. 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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.



Material	BDH9260-500G
Material Description	BDH POTASS HYDRGN PHTHLTE 500G
Grade	ACS GRADE
Batch	24H0956262
Reassay Date	04/28/2026
CAS Number	877-24-7
Molecular Formula	HOCC6H4COOK
Molecular Mass	204.22
Date of Manufacture	04/29/2023
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White crystals.	White crystals.
Assay (dried basis)	99.95 - 100.05 %	99.98 %
Chlorine Compounds	<= 0.003 %	<0.003 %
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm
Insoluble Matter	<= 0.005 %	0.003 %
Iron	<= 5 ppm	<5 ppm
pH (0.05M, Water) @25C	4.00 - 4.02	4.00
Sodium	<= 0.005 %	<0.005 %
Sulfur Compounds	<= 0.002 %	<0.002 %

Internal ID #: 322

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. 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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

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

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

Certificate of Analysis



Material	BDH9208-500G
Material Description	BDH AMMONIUM CHLORIDE ACS 500G
Grade	U S P REAGENT (ACS GRADE)
Batch	24L0356561
Reassay Date	08/31/2027
CAS Number	12125-02-9
Molecular Formula	NH ₄ Cl
Molecular Mass	53.49
Date of Manufacture	08/01/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White granular powder	White granular powder
Calcium	<= 0.001 %	0.001 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0002 %
Insolubles	<= 0.005 %	0.001 %
Iron	<= 0.0002 %	<0.0002 %
Magnesium	<= 0.0005 %	0.0001 %
pH (5%, Water) @25C	4.5 - 5.5	4.8
Phosphate	<= 0.0002 %	<0.0002 %
Purity	>= 99.5 %	99.8 %
Residue on Ignition	<= 0.01 %	0.003 %
Sulfate	<= 0.002 %	<0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

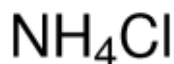
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

W3196 Received on 03/19/2025 by IZ

Certificate of Analysis

Product Name:

Ammonium chloride - ACS reagent, ≥99.5%



Product Number: 213330
Batch Number: MKCV1009
Brand: SIGALD
CAS Number: 12125-02-9
MDL Number: MFCD00011420
Formula: H4ClN
Formula Weight: 53.49 g/mol
Quality Release Date: 23 OCT 2023
Recommended Retest Date: SEP 2026

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Titration by AgNO ₃	≥ 99.5 %	100.2 %
pH	4.5 - 5.5	4.9
@ 25 Deg c (5% Solution)		
Insoluble Matter	≤ 0.005 %	0.001 %
10%, H ₂ O		
Residue on ignition (Ash)	≤ 0.01 %	< 0.01 %
Calcium (Ca)	≤ 0.001 %	< 0.001 %
Magnesium (Mg)	≤ 5 ppm	1 ppm
Heavy Metals	≤ 5 ppm	< 1 ppm
by ICP		
Iron (Fe)	≤ 2 ppm	< 1 ppm
Phosphate (PO ₄)	≤ 2 ppm	< 2 ppm
Sulfate (SO ₄)	≤ 0.002 %	< 0.002 %
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
3 Years		



Larry Coers, Director

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

Product Number: 213330
Batch Number: MKCV1009

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.



W3198 Received on 4/11/2025 by IZ

3050 Spruce Street, Saint Louis, MO 63103, USA

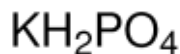
Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCW6723
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 16 OCT 2024
Recommended Retest Date: OCT 2028



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.8 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 Years		



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.





Material: BDH9312-2.5KG
 Material Description: COPPER SULFATE CRYST 2500GM
 Grade: U S P REAGENT (ACS GRADE)

Batch: 24H0956271
 Reassay Date: 05/31/2027
 CAS Number: 7758-99-8
 Molecular Formula: CuSO4.5H2O
 Molecular Mass: 249.68

Date of Manufacture: 05/01/2024
 Storage: Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Blue crystals	Blue crystals
Calcium	<= 0.005 %	0.003 %
Chloride	<= 0.001 %	0.0001 %
Insolubles	<= 0.005 %	0.001 %
Iron	<= 0.003 %	0.001 %
Nickel	<= 0.005 %	0.003 %
Nitrogen Compounds (as N)	<= 0.002 %	0.001 %
Potassium	<= 0.01 %	0.0004 %
Purity	98.0 - 102.0 %	99.7 %
Sodium	<= 0.02 %	0.003 %

Extra Description: Meets Reagent Specifications for testing USP/NF monographs

CUSTOMER PART# BDH9312-2.5KG

Internal ID #: 793

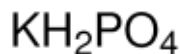
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCX1379
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 27 JAN 2025
Recommended Retest Date: JAN 2029



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.9 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 Years		



Larry Coers, Director
Quality Control
Milwaukee, WI US

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PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 05/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:32
Out Date: 05/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135838

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2078-02	WC-A4-04-C	1	1.15	10.80	11.95	9.4	76.4	
Q2078-06	WC-A4-05-C	2	1.15	10.43	11.58	9.42	79.3	
Q2078-10	WC-A1-06A-C	3	1.16	10.55	11.71	9.26	76.8	
Q2078-14	WC-A1-07A-C	4	1.15	9.99	11.14	9.05	79.1	
Q2078-18	WC-A4-06-C	5	1.13	10.77	11.9	9.68	79.4	
Q2079-02	WC-A2-01-C	6	1.18	10.33	11.51	9.02	75.9	
Q2079-06	WC-A2-02-C	7	1.18	10.18	11.36	9.29	79.7	
Q2079-10	WC-A2-03-C	8	1.16	10.47	11.63	9.53	79.9	
Q2084-01	OR-640-COMP-66	9	1.15	10.74	11.89	9.9	81.5	
Q2084-02	OR-640-VOC-66	10	1.19	9.99	11.18	9.86	86.8	
Q2084-03	OR-640-146	11	1.13	10.56	11.69	10.55	89.2	
Q2084-04	OR-640-147	12	1.15	9.69	10.84	9.86	89.9	
Q2085-01	SC-4-SED-051525	13	1.19	10.24	11.43	8.94	75.7	
Q2085-02	SC-3-SED-051525	14	1.16	9.94	11.1	8.5	73.8	
Q2085-03	SC-2-SED-051525	15	1.17	9.99	11.16	9.09	79.3	
Q2085-04	SC-1-SED-051625	16	1.18	10.21	11.39	8.38	70.5	
Q2085-05	Q2085-04MS	17	1.18	10.21	11.39	8.38	70.5	
Q2085-06	Q2085-04MSD	18	1.18	10.21	11.39	8.38	70.5	
Q2085-07	SC-COMP-SED-051625	19	1.19	10.61	11.8	8.99	73.5	
Q2085-08	DUPE-1-SC	20	1.13	10.31	11.44	8.99	76.2	
Q2087-01	NB-07-05202025	27	1.15	10.38	11.53	10.68	91.8	
Q2087-02	NB-07-05202025-E2	28	1.15	9.53	10.68	10.64	99.6	
Q2087-03	NB-08-05202025	29	1.16	10.46	11.62	11.1	95.0	
Q2087-04	NB-08-05202025-E2	30	1.13	10.07	11.2	10.5	93.0	
Q2092-01	VNJ-202	31	1.15	10.56	11.71	10.45	88.1	
Q2093-01	SOIL-DRUMS	32	1.12	10.22	11.34	5.78	45.6	
Q2094-01	COMP-1	33	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q2094-02	COMP-2	34	1.00	1.00	2.00	2.00	100.0	CONCRETE sample



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 05/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:32
Out Date: 05/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135838

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2094-03	COMP-3	35	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q2094-04	COMP-4	36	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q2094-05	COMP-5	37	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q2095-01	WCS-TP1	21	1.15	10.00	11.15	10.47	93.2	
Q2095-02	WCS-TP1-EPH	22	1.14	10.61	11.75	10.98	92.7	
Q2095-03	WCS-TP1-VOC	23	1.14	10.05	11.19	10.8	96.1	
Q2095-05	WCS-TP2	24	1.19	10.48	11.67	10.57	89.5	
Q2095-06	WCS-TP2-EPH	25	1.13	10.25	11.38	10.5	91.4	
Q2095-07	WCS-TP2-VOC	26	1.19	10.56	11.75	11.22	95.0	
Q2097-01	ETGI-357	38	1.14	9.84	10.98	9.98	89.8	
Q2097-03	RBR200044	39	1.14	10.23	11.37	10.25	89.1	
Q2097-05	RBR251675	40	1.13	10.75	11.88	11.14	93.1	
Q2097-07	VNJ-244	41	1.15	10.55	11.7	10.77	91.2	
Q2097-09	ETGI-290	42	1.17	10.72	11.89	11.8	99.2	
Q2097-11	RT3419	43	1.13	10.65	11.78	11.15	94.1	
Q2097-13	RBR251372	44	1.15	10.70	11.85	11.22	94.1	
Q2097-15	72-12013	45	1.15	10.72	11.87	11.37	95.3	
Q2097-17	RT-3888	46	1.15	10.84	11.99	11.21	92.8	
Q2099-01	OILY-DEBRIS	47	1.13	10.74	11.87	10.44	86.7	

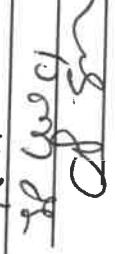
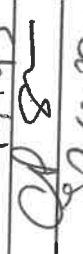
$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

135838

WorkList Name : %1-052025 WorkList ID : 189622 Department : Wet-Chemistry Date : 05-20-2025 08:38:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2078-02	WC-A4-04-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/13/2025	Chemtech -SO
Q2078-06	WC-A4-05-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/13/2025	Chemtech -SO
Q2078-10	WC-A1-06A-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/13/2025	Chemtech -SO
Q2078-14	WC-A1-07A-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/13/2025	Chemtech -SO
Q2078-18	WC-A4-06-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/13/2025	Chemtech -SO
Q2079-02	WC-A2-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	05/14/2025	Chemtech -SO
Q2079-06	WC-A2-02-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	05/13/2025	Chemtech -SO
Q2079-10	WC-A2-03-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	05/13/2025	Chemtech -SO
Q2084-01	OR-640-COMP-66	Solid	Percent Solids	Cool 4 deg C	ENTA05	L31	05/13/2025	Chemtech -SO
Q2084-02	OR-640-VOC-66	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2084-03	OR-640-146	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2084-04	OR-640-147	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2085-01	SC-4-SED-051525	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2085-02	SC-3-SED-051525	Solid	Percent Solids	Cool 4 deg C	USAR03	L41	05/15/2025	Chemtech -SO
Q2085-03	SC-2-SED-051525	Solid	Percent Solids	Cool 4 deg C	USAR03	L41	05/15/2025	Chemtech -SO
Q2085-04	SC-1-SED-051525	Solid	Percent Solids	Cool 4 deg C	USAR03	L41	05/15/2025	Chemtech -SO
Q2085-05	Q2085-04MS	Solid	Percent Solids	Cool 4 deg C	USAR03	L41	05/15/2025	Chemtech -SO
Q2085-06	Q2085-04MSD	Solid	Percent Solids	Cool 4 deg C	USAR03	L41	05/15/2025	Chemtech -SO
Q2085-07	SC-COMP-SED-051525	Solid	Percent Solids	Cool 4 deg C	USAR03	L41	05/16/2025	Chemtech -SO
Q2085-08	DUPE-1-SC	Solid	Percent Solids	Cool 4 deg C	USAR03	L41	05/16/2025	Chemtech -SO
Q2087-01	NB-07-05202025	Solid	Percent Solids	Cool 4 deg C	USAR03	L41	05/16/2025	Chemtech -SO
					PSEG05	L31	05/20/2025	Chemtech -SO

Date/Time 05/20/25 16:10
 Raw Sample Received by: 
 Raw Sample Relinquished by: 
 Date/Time 05/20/25 17:45
 Raw Sample Received by: 
 Raw Sample Relinquished by: 

WORKLIST(Hardcopy Internal Chain)

NB 135838

WorkList Name : %1-052025

WorkList ID : 189622

Department : Wet-Chemistry

Date : 05-20-2025 08:38:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2087-02	NB-07-05202025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/20/2025	Chemtech -SO
Q2087-03	NB-08-05202025	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/20/2025	Chemtech -SO
Q2087-04	NB-08-05202025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/20/2025	Chemtech -SO
Q2092-01	VNJ-202	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2093-01	SOIL-DRUMS	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2094-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2094-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2094-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2094-04	COMP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2094-05	COMP-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2095-01	WCS-TP1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2095-02	WCS-TP1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2095-03	WCS-TP1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2095-05	WCS-TP2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2095-06	WCS-TP2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2095-07	WCS-TP2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2097-01	ETGI-357	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2097-03	RBR200044	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2097-05	RBR251675	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2097-07	VNJ-244	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2097-09	ETGI-290	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO

Date/Time 05/20/25 16:10
 Raw Sample Received by: DR 5m
 Raw Sample Relinquished by: DR 5m

Date/Time 05/20/25

Raw Sample Received by: DR 5m

Raw Sample Relinquished by: DR 5m

WORKLIST(Hardcopy Internal Chain)

UN 135838

WorkList Name : %1-052025 WorkList ID : 189622 Department : Wet-Chemistry Date : 05-20-2025 08:38:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2097-11	RT3419	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2097-13	RBR251372	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2097-15	72-12013	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2097-17	RT-3888	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO
Q2099-01	OILY-DEBRIS	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/20/2025	Chemtech -SO

Date/Time 05/20/25 16:10
 Raw Sample Received by: CP 5M
 Raw Sample Relinquished by: CP 5M

Date/Time 05/20/25 16:45
 Raw Sample Received by: CP 5M
 Raw Sample Relinquished by: SD 602C



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: US Army Corps of Engineers
ADDRESS: 2 Hopkins Plaza
CITY Baltimore STATE: MD ZIP: 21201
ATTENTION: Kendall Rosenberg
PHONE: 443-406-5447 FAX: N/A

CLIENT PROJECT INFORMATION

PROJECT NAME: USACE NAB SEDIMENT 25
PROJECT NO.: _____ LOCATION: Slaughter
MO
PROJECT MANAGER: YAZMEE
e-mail: Kendall.M.Rosenberg@USACE.ARMY.M
PHONE: 443-406-5447 FAX: N/A

CLIENT BILLING INFORMATION

BILL TO: Kendall Rosenberg PO#: _____
ADDRESS: 2 Hopkins Plaza
CITY Baltimore STATE: MD ZIP: 21201
ATTENTION: Kendall Rosenberg PHONE: 443-406-5447

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 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 PDF

1. Percent Solids
2. TKW
3. TOC
4. Metals ILP
5. Metals ILP
6. Metals ILP
7. Ammonia
8. Ammonia
9. Ammonia

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES						COMMENTS	
			COMP	GRAB	DATE	TIME		E	E	E	E	E	E		
1.	SC-4-SED-051525	SED		X	5/15/25	1550	6	1	1	1	1	1	1		
2.	SC-3-SED-051525			X	5/15/25	1621	6	1	1	1	1	1	1		
3.	SC-2-SED-051525			X	5/15/25	1704	6	1	1	1	1	1	1		
4.	SC-1-SED-051625			X	5/16/25	1008	6	1	1	1	1	1	1		
5.	SC-1-SED-MS-051625			X	5/16/25	1008	1	0	0	0	1	0	0		MS
6.	SC-1-SED-MSD-051625			X	5/16/25	1008	1	0	0	0	1	0	0		MSD
7.	SC-COMP-SED-051625		X		5/16/25	1045	6	1	1	1	1	1	1		
8.	DUPE-1-SC		X		—	—	6	1	1	1	1	1	1		
9.															
10.															

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

RELINQUISHED BY SAMPLER: 1. <u>KMR; USACE</u>	DATE/TIME: <u>5/19/25</u>	RECEIVED BY: 1. <u>FedEx</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>4.2</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME: <u>5/20/25</u>	RECEIVED BY: 2. <u>[Signature]</u>	Comments: <u>2 coolers in shipment</u>
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: _____	RECEIVED BY: 3. _____	Page <u>1</u> of <u>1</u>

CLIENT: ☐ Hand Delivered ☐ Other _____

Shipment Complete ☐ YES ☐ NO

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