

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 OR	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 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
Н	Sample Analysis Out Of Hold Time



LAB CHRONICLE

OrderID: Q2646

Client: Environmental Restoration, LLC

Contact: Steve Motta

OrderDate: 7/18/2025 11:47:00 AM

Project: North Arlington, NJ

Location: O11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2646-01	FRAC TANK	Water			07/18/25			07/18/25
					09:30			
			Flash Point	1010B			07/21/25	
							14:10	
			pН	9040C			07/21/25	
			·				09:44	
			TSS	SM2540 D			07/23/25	
							09:30	



SAMPLE DATA



Lab Sample ID:

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

Fax: 908 789 8922

Q2646-01

Report of Analysis

Client: Environmental Restoration, LLC Date Collected: 07/18/25 09:30

Project: North Arlington, NJ Date Received: 07/18/25

Client Sample ID: FRAC TANK SDG No.: Q2646

% Solid: 0

Water

Matrix:

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		07/21/25 14:10	1010B
pН	4.66	Н	1	0	0	pН		07/21/25 09:44	9040C
TSS	562		1	1.00	4.00	mg/L		07/23/25 09:30	SM 2540 D-20

Other method reference for flash point: Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

U = Not Detected

Comments:

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: Environmental Restoration, LLC SDG No.: Q2646

Project: North Arlington, NJ RunNo.: LB136549

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV	рН	7.01	7	100	90-110	07/21/2025
Sample ID:	CCV1	рН	2.01	2.00	101	90-110	07/21/2025
Sample ID:	CCV2	рН	12.02	12.00	100	90-110	07/21/2025





Initial and Continuing Calibration Verification

Client: Environmental Restoration, LLC SDG No.: Q2646

Project: North Arlington, NJ RunNo.: LB136561

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Flash Point	ICV	o F	82.4	81	102	78-84	07/21/2025





Preparation Blank Summary

Client: Environmental Restoration, LLC SDG No.: Q2646

Project: North Arlington, NJ

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB136573BL mg/L	1	2.0000	J	1	4	07/23/2025



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

Fax: 908 789 8922

Duplicate Sample Summary

Client: Environmental Restoration, LLC SDG No.: Q2646

Project: North Arlington, NJ Sample ID: Q2640-01

Client ID: ELMORA-WATERDUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
рН	рН	+/-20	8.83		8.84		1	0.11		07/21/2025
Flash Point	o F	+/-2	>212.0		>212.0		1	0		07/21/2025



 $284 \; Sheffield \; Street, \; Mountainside, \; New \; Jersey \; 07092, \; Phone: \; 908 \; 789 \; 8900, \\$

Fax: 908 789 8922

Duplicate Sample Summary

Client: Environmental Restoration, LLC SDG No.: Q2646

Project: North Arlington, NJ Sample ID: Q2646-01

Client ID: FRAC TANKDUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
TSS	mg/L	+/-5	562		559		1	0.54		07/23/2025	





Laboratory Control Sample Summary

Client: Environmental Restoration, LLC SDG No.: Q2646

Project: North Arlington, NJ Run No.: LB136573

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136573BS								_
TSS		mg/L	550	533		97	1	90-110	07/23/2025



RAW DATA

 $\mathbf{pH} \ \mathbf{Meter} \ \mathbf{ID} \ : \ \mathbf{WC} \ \mathbf{PH} \ \mathbf{METER-1}$



Analytical Summary Report

Analysis Method: 9040C Analyst By : jignesh

Parameter: pH Supervisor Review By : Iwona

Run Number: LB136549 Slope : 98.6

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.05].

True Value of CCV2 = 12.00 Control Limits[+/- 0.05].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	07/21/2025	09:05
2	CAL2	1	Water	NA	NA	20.2	7.00	07/21/2025	09:06
3	CAL3	1	Water	NA	NA	20.3	10.02	07/21/2025	09:10
4	ICV	1	Water	NA	NA	20.2	7.01	07/21/2025	09:11
5	CCV1	1	Water	NA	NA	20.2	2.01	07/21/2025	09:15
6	Q2640-01	1	Water	NA	NA	22.1	8.83	07/21/2025	09:30
7	Q2640-01DUP	1	Water	NA	NA	22.2	8.84	07/21/2025	09:33
8	Q2646-01	1	Water	NA	NA	20.7	4.66	07/21/2025	09:44
9	CCV2	1	Water	NA	NA	20.2	12.02	07/21/2025	09:45

Reviewed By:Iwona On:7/21/2025 11:07:54 AM Inst Id :WC PH METER-1

WORKLIST(Hardcopy Internal Chain)

Date: 07-21-2025 08:46:52

Collect Date Method

07/18/2025 9040C 07/18/2025 9040C

JR-136549

Department: Wet-Chemistry

WorkList ID: 190841

PH Q2640

WorkList Name:

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

ELMORA-WATER

Q2640-01 Q2646-01

FRAC TANK

141 9

PSEG03

Cool 4 deg C Cool 4 deg C

H 펍

Water Water

ENVI60

Date/Time (1/21/12)

Raw Sample Relinquished by: Raw Sample Received by:

13:00

Page 1 of 1

Date/Time OHANAS 091, 00

Raw Sample Relinquished by: Raw Sample Received by:



Analytical Summary Report

Analysis Method: 1010B Reviewed By: rubina

Parameter: Flash Point Supervisor Review By: Iwona

Run Number: LB136561 Ambient Barometric Pressure (mmHg): 760.00

Thermometer ID: Flash Point Barometric Scale ID: 0511064

Reagent/Standard	Lot/Log #
p-xylene (ICV)	W3194

Seq	LabID	True Value °F	DL	Initial Sample °C	Celsius °C	Result °F	Final Result °F	Anal Date	Anal Time
1	ICV	81	1	8	28.00	82.4	82.4	07/21/2025	12:40
2	Q2640-01		1	14	100.00	>212.0	>212.0	07/21/2025	13:10
3	Q2640-01DUP		1	14	100.00	>212.0	>212.0	07/21/2025	13:40
4	Q2646-01		1	16	100.00	>212.0	>212.0	07/21/2025	14:10

Result = (Celsius * 1.8) + 32

Final Result = Result + (760 - Ambient Barometric Pressure) * 0.06

WORKLIST (Hardcopy Internal Chain)

19598197

Department: Wet-Chemistry

Customer

Date: 07-21-2025 09:07:03 Raw Sample

Collect Date Method

07/18/2025 1010B 07/18/2025 1010B

011

ENVI60

Cool 4 deg C Cool 4 deg C

Flash Point Flash Point

Water Water

ELMORA-WATER

Q2640-01 Q2646-01

FRAC TANK

PSEG03

Storage Location **D41**

Preservative

WorkList ID: 190844

Test

Matrix

Customer Sample

Sample

fp-7-21

WorkList Name:

Raw Sample Relinquished by:

Date/Time 07/31/2025 Raw Sample Received by:

Raw Sample Relinquished by: Raw Sample Received by:

Date/Time 07/21/2025



TEMP2 IN:

TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

ANALYST: jignesh

Date: 07/22/2025

Run Number: LB136573

BalanceID: WC SC-6

OvenID: WC OVEN-1

FilterID: 17416528

103 °C 07/22/2025 15:00 TEMP1 OUT: 103 °c 07/22/2025 16:00 TEMP1 IN:

> 104 °C 07/22/2025 16:30 TEMP2 OUT: 103 °C 07/22/2025 17:30

104 °C 07/23/2025 09:30 TEMP3 OUT: 103 °C 07/23/2025 11:15 TEMP3 IN:

103 °C 07/23/2025 12:00 TEMP4 OUT: 104 °C 07/23/2025 13:35 TEMP4 IN: ThermometerID: WET OVEN#1

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB136573BL	LB136573BL	1.3562	1.3562	100	1.3563	1.3563	1.3563	0.0001	1
2	LB136573BS	LB136573BS	1.4877	1.4877	100	1.5410	1.5410	1.5410	0.0533	533
3	Q2644-01	RW8-SP100-20250717	1.4851	1.4851	450	1.4854	1.4854	1.4854	0.0003	0.7
4	Q2644-02	RW8-SP303-20250717	1.4803	1.4803	350	1.4806	1.4806	1.4806	0.0003	0.9
5	Q2646-01	FRAC TANK	1.4848	1.4848	100	1.5410	1.5410	1.5410	0.0562	562
6	Q2646-01DUP	FRAC TANKDUP	1.4670	1.4670	100	1.5229	1.5229	1.5229	0.0559	559
7	Q2669-01	001 WILLETS PT BLVD (JUNE)	1.4894	1.4894	300	1.5140	1.5140	1.5140	0.0246	82
8	Q2669-02	002 35th Ave (JUNE)	1.4695	1.4695	300	1.4955	1.4955	1.4955	0.0260	86.7

Sample Volume (ml)

Final Empty Dish Weight (g)

Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)

Weight (g)

Weight (g) =C - B

D Result mg/L =1000 1000 Α

WORKLIST(Hardcopy Internal Chain)

tss q2669 WorkList Name:

WorkList ID: 190886

Department: Wet-Chemistry

UP 136573

		WOLKLIST	WOINCIST ID : 190886	Department: Wet-Chemistry	Wet-Chemistry		Date: 07-23-2025 07-41-52	0025 07:41:52
								20.14.10 020.
Sample	Customer Sample	Matrix Test	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	e Method
Q2644-01 B D	Q2644-01 B B RW8-SP100-20250217	Minte	6					
		water	188	Cool 4 deg C	TETR06	033	07/17/2002	07/17/202E SM2E40 F
QZ644-02 B, B	Q2644-02 B, P. RW8-SP303-20250717	Water	881				202111202	O SINIZO40 D
7 20 21200				Cool 4 deg C	TETR06	033	07/17/202	07/17/2025 SM2540 D
(IO-04075	FRAC TANK	Water	TSS	0 277 7 1000				O CLOSING O
O2660 04 O				Cool 4 deg C	ENVI60	011	07/18/202	07/18/2025 SM2540 D
7 10-6002	UU1 WILLETS PT BLVD (JUNE) Water	Water	TSS	Cool 4 dos 0				
O 20 098CO	4 1140 000			O San + Iooo	I ULL01	033	07/21/202	07/21/2025 SM2540 D
V 20-00-00	Unc 35th Ave (JUNE)	Water	TSS	0 - 1 - 0				
				Cool 4 deg C	TULL01	033	07/21/202	07/21/2025 SM2540 D

Date/Time 07/12/25

Raw Sample Received by:

Reviewed By:Iwona On:7/23/2025 11:03:13 AM Inst Id :WC SC-3 LB :LB136573

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Received by:

Date/Time 04/2/16 08:00



Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136549

Review By	jign	esh	Review On	7/21/2025 9:59:03 AM
Supervise By	lwo	na	Supervise On	7/21/2025 11:07:54 AM
SubDirectory	LB1	36549	Test	рН
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		W3178,W3093,W3191,V	W3217,W3161,W3200	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	07/21/25 09:05		jignesh	ОК
2	CAL2	CAL2	CAL	07/21/25 09:06		jignesh	ОК
3	CAL3	CAL3	CAL	07/21/25 09:10		jignesh	ОК
4	ICV	ICV	ICV	07/21/25 09:11		jignesh	ОК
5	CCV1	CCV1	CCV	07/21/25 09:15		jignesh	ОК
6	Q2640-01	ELMORA-WATER	SAM	07/21/25 09:30		jignesh	ОК
7	Q2640-01DUP	ELMORA-WATERDU	DUP	07/21/25 09:33		jignesh	ОК
8	Q2646-01	FRAC TANK	SAM	07/21/25 09:44		jignesh	ОК
9	CCV2	CCV2	CCV	07/21/25 09:45		jignesh	ОК



Instrument ID: IGN-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136561

Review By	rubi	ina	Review On	7/21/2025 3:15:40 PM
Supervise By	lwo	na	Supervise On	7/21/2025 3:15:56 PM
SubDirectory	LB1	136561	Test	Flash Point
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		W3194		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	ICV	ICV	ICV	07/21/25 12:40		rubina	ок
2	Q2640-01	ELMORA-WATER	SAM	07/21/25 13:10		rubina	ОК
3	Q2640-01DUP	ELMORA-WATERDU	DUP	07/21/25 13:40		rubina	ОК
4	Q2646-01	FRAC TANK	SAM	07/21/25 14:10		rubina	ОК



Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB136573

Review By	jign	nesh	Review On	7/23/2025 10:17:52 AM
Supervise By	lwo	ona	Supervise On	7/23/2025 11:03:13 AM
SubDirectory	LB	136573	Test	TSS
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136573BL	LB136573BL	MB	07/23/25 09:30		jignesh	ОК
2	LB136573BS	LB136573BS	LCS	07/23/25 09:30	55 MG W3186 + 100 ML W3112	jignesh	ОК
3	Q2644-01	RW8-SP100-2025071	SAM	07/23/25 09:30		jignesh	ОК
4	Q2644-02	RW8-SP303-2025071	SAM	07/23/25 09:30		jignesh	ОК
5	Q2646-01	FRAC TANK	SAM	07/23/25 09:30		jignesh	ОК
6	Q2646-01DUP	FRAC TANKDUP	DUP	07/23/25 09:30		jignesh	ОК
7	Q2669-01	001 WILLETS PT BLV	SAM	07/23/25 09:30		jignesh	ОК
8	Q2669-02	002 35th Ave (JUNE)	SAM	07/23/25 09:30		jignesh	ОК



Order ID:

Test:

Q2646

Flash Point,pH,TSS

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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Prepbatch ID : Sequence ID/Qc Batch ID: LB136549,LB136561,LB136573,
Standard ID :
Chemical ID: W3093,W3161,W3178,W3191,W3194,W3200,W3217,



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / Iwona	12/09/2024 / Iwona	W3161
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191
	475ML					
Supplier		Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier PCI Scientific Supply, Inc.	475ML	Lot #	-			
PCI Scientific	ItemCode / ItemName TCX0014-500ML /		Date	Opened By 06/30/2025 /	Received By 03/19/2025 /	Lot #



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	2504D34	03/31/2027	07/02/2025 / jignesh	06/26/2025 / lwona	W3217



RICCA CHEMICAL COMPANY

1490 Lammers Pike Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis Onlong Concession Co

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4401F99

Product Number: 1551

Manufacture Date: JAN 08, 2024

Expiration Date: DEC 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ± 0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05 .

5 10 15 20 25 30 35 40 45 50 pН 7.12 7.09 7.06 7.04 7.02 7.00 6.99 6.98 6.98 6.97 6.97

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Sodium Phosphate Dibasic	7558-79-4	ACS	
Potassium Dihydrogen Phosphate	7778-77-0	ACS	
Preservative	Proprietary	II II Ta' .	
Yellow Dye	Proprietary		
Sodium Hydroxide	1310-73-2		

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

Specification	Reference	
Commercial Buffer Solutions	ASTM (D 1293 B)	
Buffer A	ASTM (D 5464)	
Buffer A	ASTM (D 5128)	

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months
		V (V)

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

faul Drandon

Paul Brandon (01/08/2024)

Production Manager

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

This product was tested in an ISO 17025 Accredited Laboratory

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

Version: 1.3 Lot Number: 4401F99 Product Number: 1551 Page 2 of 2

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 2411E26 Product Number: 1493

Manufacture Date: NOV 11, 2024

Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

25 30 35 40 45 50 1.93 1.98 1.98 2.00 2.01 2.03 2.03 2.04 2.04 pН

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

	*		
Appearance	Colorless liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	1.994	0.02	185i, 186-I-g, 186-II-g

Specification

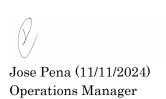
Result

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months

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

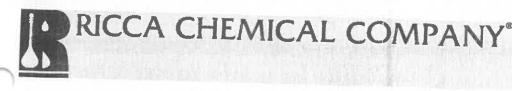
Version: 1.3 Lot Number: 2411E26 Product Number: 1493 Page 1 of 2



This product was tested in an ISO 17025 Accredited Laboratory

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

Version: 1.3 Lot Number: 2411E26 Product Number: 1493 Page 2 of 2



1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

93178

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 2411A93

Product Number: 1501

Manufacture Date: NOV 04, 2024

Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST Traceable pH value is certified to ± 0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05 .

5 10 15 20 25 30 35 45 pH 50 4.00 4.00 4.00 4.00 4.004.00 4.01 4.024.03 4.04 4.06

Name	CAS#	Grade	A DESCRIPTION OF THE PERSON
Water	7732-18-5	ACS/ASTM/USP/	EP
Potassium Acid Phthalate	877-24-7	Buffer	
Preservative Red Dye	Proprietary	Commercial	
neu bye	Proprietary	Purified	THE STATE OF THE S
Test	Specification	Result	
Appearance	Red liquid	Passed	*Not a partiful 1
l'est	Certified Value		*Not a certified val
pH at 25°C (Method: SQCP027, SQCP033)	4.008	Uncertainty	NIST SRM#
Specification	4.008	0.02	185i, 186-I-g, 186-II-g
Specification	Day	THE PARTY ASSESSMENT	

Specification	
Commonaid D. CC. G. L.	Reference
Ruffer R	ASTM (D 1293 B) ASTM (D 5464)
Buffer B	ASTM (D 5464) ASTM (D 5128)
DH measurements were and	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are 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	CO. Yew to day
1501-16		Shelf Life (Unopened Container)
1501-2.5	500 mL natural poly	24 months
1501-5	10 L Cubitainer®	24 months
Recommended Storage: 15°C	20 L Cubitainer®	24 months



RICCA CHEMICAL COMPANY 33191

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com

1-888-GO-RICCA customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: 2410F80

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ± 0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05 .

20 25 30 pН 35 10.31 10.23 40 50 10.17 10.11 10.05 10.00 9.95 9.91 9.87 9.81

Name	CAS#		
Water		Grade	
Sodium Carbonate	7732-18-5	ACS/ASTM/USP/EP	
Sodium Ricarhamat	497-19-8	ACS	
Sodium Hydroxide	144-55-8	ACS	
Preservative	1310-73-2	Reagent	
Blue Dyo	Proprietary		
Cest	Proprietary	11-12-2 11 AT 1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Service and a service
Pest			El Mariana III

Appearance	Specification	Result	
Test	Blue liquid	Passed	*Not a certified value
	Certified Value	Uncertainty	
pH at 25°C (Method: SQCP027, SQCP033) Specification	10.009	0.00	186-I-g, 186-II-g, 191d

Specification	0.02	186-I-g, 186-II-g, 191d
Commorain D. Co. C. J.	Reference	
Buffer C	ASTM (D 1293 B)	
Buffer C	ASTM (D 54CA)	0 × 20 1 0 30 00 1000
pH measurements were performed in our Pocomoke City, MD laboratory us		
cortified the delivery was common and the cortified the co	adou ICO TEO	**************************************

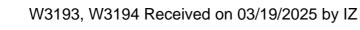
pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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

Part Number		and production and testing
1601-1	Size / Package Type	Shelf Life (Time Lo
1601-16	4 L natural poly 500 mL natural poly	Shelf Life (Unopened Container) 18 months
1601-16 1601-1CT	500 mL natural poly 4 L Cubitainer®	18 months
2.0	4 L Cubitainer® 10 L Cubitainer®	18 months
	1 L natural poly	18 months
	1 L natural poly 20 L Cubitainer®	18 months
ersion: 1.3	Lot Number: 2410F80	18 months

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2





Certificate of Analysis

03/19/2025(JST)

TOKYO CHEMICAL INDUSTRY CO.,LTD.
T-PLUS Nihonbashi-Kodemmacho
16-12 Nihonbashi-kodemmacho, Chuo-ku, Tokyo 103-0001, Japan

Chemical Name: p-Xylene		
Product Number: X0014 CAS RN: 106-42-3	Lot: C6PEN	

Tests	Results	Specifications				
Appearance	Colorless clear liquid	Colorless to Almost colorless clear liquid				
Purity(GC)	99.7 %	min. 99.0 %				

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.

The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

Customer Service:

TCI AMERICA

Tel: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 E-mail: Sales-US@TCIchemicals.com

Takuya Nishioka

Quality Assurance Department Manager

Tahun Mikich

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C

Lot Number: 2504F20 Product Number: 1615

Manufacture Date: APR 08, 2025

Expiration Date: SEP 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

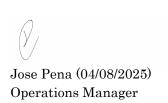
Test	Specification	nesuit	
Appearance	Colorless liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)			-

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-5	20 L Cubitainer®	18 months

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

Version: 1.3 Lot Number: 2504F20 Product Number: 1615 Page 1 of 2



This product was tested in an ISO 17025 Accredited Laboratory

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

Version: 1.3 Lot Number: 2504F20 Product Number: 1615 Page 2 of 2

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 2504D34 Product Number: 1551

Manufacture Date: APR 03, 2025

Expiration Date: MAR 2027

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ±0.05.

15 20 30 35 45 50 рH 7.12 7.09 7.06 7.04 7.02 7.00 6.99 6.98 6.98 6.97 6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

	Test	Specification	\mathbf{Result}	
•	Appearance	Yellow liquid	Passed	*Not a certified value.
	Test	Certified Value	Uncertainty	NIST SRM#

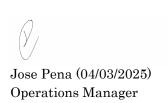
Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. 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)
1551-2.5	10 L Cubitainer®	24 months
1551-20	20 x 20 mL pack	24 months
1551-32	1 L natural poly	24 months
1551-5	20 L Cubitainer®	24 months

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

Version: 1.3 Lot Number: 2504D34 Product Number: 1551 Page 1 of 2



This product was tested in an ISO 17025 Accredited Laboratory

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

Version: 1.3 Lot Number: 2504D34 Product Number: 1551 Page 2 of 2



SHIPPING DOCUMENTS



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

ALLIANCE PROJECT NO.

QUOTE NO.

2 2646

coc Number 2047597

	CLIENT INFORMATION			CLIENT	PROJECT IN	IFORMA	TION		Tat				CLIEN	T BILLI	NG INF	ORMATION	
COMPANY:	REPORTTO BE SENT TO:	PROJEC	CT NAM	ME:G8	REEN	TOF	AIS			BILLT	ГО: 😘					PO#: ८	2217
ADDRESS: 627 COURT ST PROJE				1221	7 LOCA	TION:	J.A.	2414	4101	ADDF	RESS:	-27	Con	JET	5	τ	
				GER:	STEVE	M	AITO									EUY	13901 ZIP:
ATTENTION: STEVE MOTTA e-mail:			5.1	W OTTY	LD E	كرلار	, c	om		ATTE	NTION:	31	EUE				6037026
PHONE: 3146037026 FAX: PHONE:					FA	X::						130		ANA	ALYSIS	-800	
DATA TURNAROUND INFORMATION FAX (RUSH)			1 (Results 2 (Results	s Only)	Level 4 (QC NJ Reduce NYS ASP A Other	+ Full F d 🗀 US	Raw Data	a) LP	t 2	HERE PRES	SERVA	AV 6	147 1241	7 36 7 00 8		NETALL CO	MMENTS
ALLIANCE SAMPLE	PROJECT	SAMPLE	SAMPL TYPE	COLI	MPLE LECTION	OF BOTTLES	V			PRE	SERVA	IIVES				← Specif	fy Preservatives D-NaOH
ID	SAMPLE IDENTIFICATION	MATRIX	GRAB	DATE	TIME	# 0F B	1	2	3	4	5	6	7	8	9	B-HN03 C-H2SO4	E-ICE F-OTHER
1.	FRACTANK	ua	Y.	7118	0930	1	V									HZS	04
2. 2	FRACTONE		Y		1	2		V									
3. 3	FRACTANK		Y			1			V	1							
4. 4	FRACTANK		У			t				V							
5. 5	FRAC PANK		X			1					~						
6. C	FRAC TANK		X			1						V					
7. 8	FRACTANK		Х			2							V			HCL	
8. 9	FRAC TANK		X			2								V			
9. 10	FRACTAUL	4	X	-	1										V		
10.		A	X	V	V												
RELINQUISHED B RELINQUISHED B 2. RELINQUISHED B	Y SAMPLER: DATE/TIME: RECEIVED BY: 2. Y SAMPLER: DATE/TIME: QUE RECEIVED BY:	UMENTED 7	IOI 1-18	8 Condi	tions of bottles	or coolers	_	t: D CC	OMPLIANT		COMPLIA	NT, LIC				Shipmer	°C
11/	7-12-25 3.			Page	e of	1.									-	☐ 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			

QA Control Code: A2070148



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

Fax: 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID: Q2646

ENVI60

Order Date: 7/18/2025 11:47:00 AM

Project Mgr:

Client Name: Environmental Restoration,

Project Name: North Arlington, NJ

Report Type: NJ Reduced

Client Contact: Steve Motta

Receive DateTime: 7/18/2025 2:00:00 PM

EDD Type: Excel NJ

Invoice Name: Environmental Restoration, Purchase Order:

Hard Copy Date:

Invoice Contact: Steve Motta

Date Signoff:

LAB ID	CLIENT ID	MATRIX SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2646-01	FRAC TANK	Water 07/18/2025	09:30					
				VOC-TCLVOA-10		8260D	10 Bus. Davs	

Relinguished By

13:00 Dg #5

Storage Area: VOA Refridgerator Room