

## DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME: NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.
661 Andersen Drive
Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID: Q3017

**ATTENTION: Ernie Wu** 





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#### **Cover Page**

**Order ID:** Q3017

**Project ID:** NWIRP Bethpage 112G08005-WE13

**Client:** Tetra Tech NUS, Inc.

Lab Sample Number Client Sample Number

 Q3017-01
 BP-TB-20250903

 Q3017-02
 TT-076-IDWGW-20250903

 Q3017-03
 TT-077-IDWGW-20250903

 Q3017-04
 TT-078-IDWGW-20250903

 Q3017-05
 TT-079-IDWGW-20250903

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 :

By Nimisha Pandya, QA/QC Supervisor at 2:22 pm, Sep 09, 2025

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

9/8/2025

Date:

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#### CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager: Ernie Wu

Order ID # Q3017 Test Name: pH

#### A. Number of Samples and Date of Receipt:

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

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: pH. This data package contains results for pH.

#### C. Analytical Techniques:

The analysis of pH was based on method 9040C.

#### D. QA/ QC Samples:

The Holding Times were met for all samples except for TT-076-IDWGW-20250903 of pH, for TT-077-IDWGW-20250903 of pH, for TT-078-IDWGW-20250903 of pH and for TT-079-IDWGW-20250903 of pH as sample were receive out of holding time.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

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

The Calibration met the requirements.

#### **E.** Additional Comments:

Signature

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

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.

**APPROVED** 

By Nimisha Pandya, QA/QC Supervisor at 2:22 pm, Sep 09, 2025

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#### 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

QA Control # A3040961

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Sample Analysis Out Of Hold Time

#### ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

#### GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3017 MATRIX: Water

METHOD: 9040C

1. Blank Contamination - If yes, list compounds and concentrations in each blank:

2. Sample Duplicate Analysis Met QC Criteria

If not met, list those compounds and their recoveries which fall outside the acceptable range.

3. Digestion Holding Time Met

✓

If not met, list number of days exceeded for each sample:

The Holding Times were met for all samples except for TT-076-IDWGW-20250903 of pH, for TT-077-IDWGW-20250903 of pH, for TT-078-IDWGW-20250903 of pH and for TT-079-IDWGW-20250903 of pH as sample were receive out of holding time.

#### ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

**REVIEWED** 

**QA REVIEW** 

By Sohil Jodhani, QA/QC Director at 9:07 am, Sep 09, 2025

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#### APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: Q3017

	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)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u>✓</u>
Is the chain of custody signed and complete	<u>√</u> <u>√</u> <u>√</u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u>✓</u>
Collect information for each project id from server. Were all requirements followed	<u>✓</u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u>✓</u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u>✓</u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u>✓</u>
Do requested analyses on Chain of Custody agree with the log-in page	<del>✓</del> <del>✓</del> <del>✓</del>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u>✓</u>
Were the samples received within hold time	<u>✓</u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u>✓</u>
Was client requirement followed?	<u>✓</u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI Date: 09/08/2025

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#### LAB CHRONICLE

OrderID: Q3017 OrderDate: 9/4/2025 10:17:00 AM

Client: Tetra Tech NUS, Inc. Project: NWIRP Bethpage 112G08005-WE13

Contact: Ernie Wu Location: J12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3017-02	TT-076-IDWGW-2025	WATER			09/03/25			09/04/25
	0903				11:30			
			pН	9040C			09/05/25	
							08:55	
Q3017-03	TT-077-IDWGW-2025	WATER			09/03/25			09/04/25
<b>Q</b> 5017 05	0903	******			11:40			05,01,25
	3333		рН	9040C	22.10		09/05/25	
			Pi.	30100			09:00	
							03.00	
Q3017-04	TT-078-IDWGW-2025	WATER			09/03/25			09/04/25
	0903				11:50			
			рН	9040C			09/05/25	
							09:10	
Q3017-05	TT-079-IDWGW-2025	WATER			00/02/25			09/04/25
Q3017-03		WAIER			09/03/25 12:00			09/04/25
	0903		mll	00400	12:00		00/05/25	
			рН	9040C			09/05/25	
							09:25	

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# SAMPLE DATA



Fax: 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech NUS, Inc. Date Collected: 09/03/25 11:30

Project: NWIRP Bethpage 112G08005-WE13 Date Received: 09/04/25

Client Sample ID: TT-076-IDWGW-20250903 SDG No.: Q3017

Lab Sample ID: Q3017-02 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pН	7.25	Н	1	0	0	0	рН		09/05/25 08:55	9040C

Comments: pH result reported at temperature 20.6 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

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Fax: 908 789 8922

#### **Report of Analysis**

Client:Tetra Tech NUS, Inc.Date Collected:09/03/25 11:40Project:NWIRP Bethpage 112G08005-WE13Date Received:09/04/25

Client Sample ID: TT-077-IDWGW-20250903 SDG No.: Q3017

Lab Sample ID: Q3017-03 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pН	7.18	Н	1	0	0	0	pН		09/05/25 09:00	9040C

Comments: pH result reported at temperature 20.1 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

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Fax: 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech NUS, Inc. Date Collected: 09/03/25 11:50

 Project:
 NWIRP Bethpage 112G08005-WE13
 Date Received:
 09/04/25

 Client Sample ID:
 TT-078-IDWGW-20250903
 SDG No.:
 Q3017

Lab Sample ID: Q3017-04 Matrix: WATER

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pН	6.83	Н	1	0	0	0	рН		09/05/25 09:10	9040C

Comments: pH result reported at temperature 20.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

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Q3017-05

Lab Sample ID:

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

Matrix:

WATER

#### **Report of Analysis**

Client: Tetra Tech NUS, Inc. Date Collected: 09/03/25 12:00

Project: NWIRP Bethpage 112G08005-WE13 Date Received: 09/04/25

Client Sample ID: TT-079-IDWGW-20250903 SDG No.: Q3017

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pН	6.63	Н	1	0	0	0	рН		09/05/25 09:25	9040C

Comments: pH result reported at temperature 20.3 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

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

OR = Over Range

N =Spiked sample recovery not within control limits

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# QC RESULT SUMMARY

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Fax: 908 789 8922

#### **Initial and Continuing Calibration Verification**

Client: Tetra Tech NUS, Inc. SDG No.: Q3017

Project: NWIRP Bethpage 112G08005-WE13 RunNo.: LB137081

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV	рН	7.01	7	100	90-110	09/05/2025
Sample ID:	CCV1	Нд	2.01	2.00	101	90-110	09/05/2025
Sample ID: pH	CCV2	рН	12.02	12.00	100	90-110	09/05/2025

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#### **Duplicate Sample Summary**

Client: Tetra Tech NUS, Inc. SDG No.: Q3017

Project: NWIRP Bethpage 112G08005-WE13 Sample ID: Q3017-02

Client ID: TT-076-IDWGW-20250903DUP 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	pН	+/-20	7.25		7.27		1	0.28		09/05/2025	

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#### **Duplicate Sample Summary**

Client: Tetra Tech NUS, Inc. SDG No.: Q3017

**Project:** NWIRP Bethpage 112G08005-WE13 **Sample ID:** Q3017-03

Client ID: TT-077-IDWGW-20250903DUP 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	
pН	pН	+/-20	7.18		7.19		1	0.14		09/05/2025	

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#### **Duplicate Sample Summary**

Client: Tetra Tech NUS, Inc. SDG No.: Q3017

Project: NWIRP Bethpage 112G08005-WE13 Sample ID: Q3017-04

Client ID: TT-078-IDWGW-20250903DUP 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	pН	+/-20	6.83		6.86		1	0.44		09/05/2025	

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

Fax: 908 789 8922

#### **Duplicate Sample Summary**

Client: Tetra Tech NUS, Inc. SDG No.: Q3017

Project: NWIRP Bethpage 112G08005-WE13 Sample ID: Q3017-05

Client ID: TT-079-IDWGW-20250903DUP 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	pН	+/-20	6.63		6.65		1	0.3		09/05/2025	

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#### **Duplicate Sample Summary**

Client: Tetra Tech NUS, Inc. SDG No.: Q3017

Project: NWIRP Bethpage 112G08005-WE13 Sample ID: Q3022-01

Client ID: 1413DUP Percent Solids for Spike Sample: 0

		Acceptance	Sample	Conc.	Duplicate	Conc.	Dilution	RPD/	0 1	Analysis	
Analyte	Units	Limit	Result	Qualifier	Result	Qualifier	Factor	AD	Qual	Date	
pН	pН	+/-20	7.43		7.45		1	0.27		09/05/2025	

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## **RAW DATA**

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#### Analytical Summary Report

Analysis Method: 9040C Analyst By: JIGNESH

Parameter: pH Supervisor Review By : Iwona

**Run Number:** LB137081 **Slope :** 99.2

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

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	09/05/2025	08:35
2	CAL2	1	Water	NA	NA	20.2	7.01	09/05/2025	08:36
3	CAL3	1	Water	NA	NA	20.3	10.02	09/05/2025	08:38
4	ICV	1	Water	NA	NA	20.2	7.01	09/05/2025	08:40
5	CCV1	1	Water	NA	NA	20.3	2.01	09/05/2025	08:44
6	Q3017-02	1	Water	NA	NA	20.6	7.25	09/05/2025	08:55
7	Q3017-02DUP	1	Water	NA	NA	20.7	7.27	09/05/2025	08:59
8	Q3017-03	1	Water	NA	NA	20.1	7.18	09/05/2025	09:00
9	Q3017-03DUP	1	Water	NA	NA	20.2	7.19	09/05/2025	09:02
10	Q3017-04	1	Water	NA	NA	20.4	6.83	09/05/2025	09:10
11	Q3017-04DUP	1	Water	NA	NA	20.6	6.86	09/05/2025	09:15
12	Q3017-05	1	Water	NA	NA	20.3	6.63	09/05/2025	09:25
13	Q3017-05DUP	1	Water	NA	NA	20.5	6.65	09/05/2025	09:30
14	Q3022-01	1	Water	NA	NA	23.6	7.43	09/05/2025	09:38
15	Q3022-01DUP	1	Water	NA	NA	23.8	7.45	09/05/2025	09:40
16	CCV2	1	Water	NA	NA	20.3	12.02	09/05/2025	09:42

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Date/Time 09/09/15

Raw Sample Received by:

Reviewed By:Iwona On:9/5/2025 11:20:58 AM Inst Id :WC PH METER-1

Raw Sample Relinquished by:

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Raw Sample Received by:

Raw Sample Relinquished by:



**Instrument ID:** 

WC PH METER-1

#### Daily Analysis Runlog For Sequence/QCBatch ID # LB137081

Review By	JIG	NESH	Review On	9/5/2025 9:14:23 AM
Supervise By	lwo	ona	Supervise On	9/5/2025 11:20:58 AM
SubDirectory	LB	137081	Test	pH
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	

	I		T		T		
Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	09/05/25 08:35		JIGNESH	ОК
2	CAL2	CAL2	CAL	09/05/25 08:36		JIGNESH	ОК
3	CAL3	CAL3	CAL	09/05/25 08:38		JIGNESH	ОК
4	ICV	ICV	ICV	09/05/25 08:40		JIGNESH	ОК
5	CCV1	CCV1	CCV	09/05/25 08:44		JIGNESH	ОК
6	Q3017-02	TT-076-IDWGW-2025	SAM	09/05/25 08:55		JIGNESH	ОК
7	Q3017-02DUP	TT-076-IDWGW-2025	DUP	09/05/25 08:59		JIGNESH	ОК
8	Q3017-03	TT-077-IDWGW-2025	SAM	09/05/25 09:00		JIGNESH	ОК
9	Q3017-03DUP	TT-077-IDWGW-2025	DUP	09/05/25 09:02		JIGNESH	ОК
10	Q3017-04	TT-078-IDWGW-2025	SAM	09/05/25 09:10		JIGNESH	ОК
11	Q3017-04DUP	TT-078-IDWGW-2025	DUP	09/05/25 09:15		JIGNESH	ОК
12	Q3017-05	TT-079-IDWGW-2025	SAM	09/05/25 09:25		JIGNESH	ОК
13	Q3017-05DUP	TT-079-IDWGW-2025	DUP	09/05/25 09:30		JIGNESH	ОК
14	Q3022-01	1413	SAM	09/05/25 09:38		JIGNESH	ОК
15	Q3022-01DUP	1413DUP	DUP	09/05/25 09:40		JIGNESH	ОК
16	CCV2	CCV2	CCV	09/05/25 09:42		JIGNESH	ОК

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#### **Prep Standard - Chemical Standard Summary**

Order ID :	Q3017
Test :	рН
Prepbatch ID :	
Sequence ID/Qc	<b>Batch ID:</b> LB137081,
O. 1 115	
Standard ID :	
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Chemical ID: W3093,W3161,W	v3178,W3191,W3200,W3217,
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#### **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 /	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 475ML	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
RICCA CHEMICAL COMPANY	1615-16 / pH 12.00 Buffer	2504F20	09/30/2026	04/11/2025 / Iwona	04/11/2025 / Iwona	W3200
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 / Iwona	W3217

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

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Buffer, Reference Standard, pH  $7.00 \pm 0.01$  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  $\pm 0.01$  at 25 °C only. All other pH values at their corresponding temperatures are accurate to  $\pm 0.05$ .

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	
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	

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

Version: 1.3 Lot Number: 4401F99 Product Number: 1551 Page 1 of 2

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Paul Brandon

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

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Version: 1.3

Lot Number: 4401F99

Product Number: 1551

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Q3017-GENCHEM

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## Certificate of Analysis

Buffer, Reference Standard, pH  $2.00 \pm 0.01$  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

Test	Specification	$\mathbf{Result}$	
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

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

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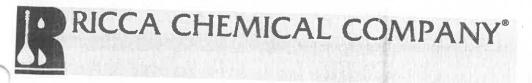
Jose Pena (11/11/2024) Operations Manager

#### This product was tested in an ISO 17025 Accredited Laboratory

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

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Certificate of Analysis

Buffer, Reference Standard, pH  $4.00 \pm 0.01$  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 confirmed in 1001 to 2007, in this product is confirmed in independent testing by a second qualified chemist.

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

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#	Q. I
Water		Grade
######################################	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative Red Dye	Proprietary	Commercial
neu Dye	Proprietary	Purified

Test	Specification	Result	
Appearance	Red liquid	Passed	*Not a certified value
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.008	0.02	185i, 186-I-g, 186-II-g

Specification	A STATE OF THE STA
Commovaid Duff, G. 1	Reference
Buffer R	ASTM (D 1293 B)
Buller R	(D 5704)
pH magazinamanta	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 it is 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 history for each lot manufactured.

Part Number	Size / Package Type	
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

Version: 1.3

Lot Number: 2411A93

Product Number: 1501

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Q3017-GENCHEM



# CCA CHEMICAL COMPANY 33191

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Certificate of Analysis

Buffer, Reference Standard, pH  $10.00 \pm 0.01$  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  $\pm 0.01$  at 25 °C only. All other pH values at their corresponding temperatures are accurate to  $\pm 0.05$ .

20 25 30 pΗ 10.31 10.23 35 40 50 10.1710.11 10.05 10.00 9.95 9.91 9.87 9.81

Name	CAS#	The same of the sa	
Water		Grade	
Sodium Carbonate	7732-18-5	ACS/ASTM/USP/EP	
Sodium Ricarbonato	497-19-8	ACS	
Sodium Hydronia	144-55-8	ACC	
Preservative	1310-73-2	Reagent	
Blue Dye	Proprietary	***************************************	
Side Dye		4141X A	Service and a second

1est			PERSONAL PROPERTY OF THE PARTY
Appearance	Specification	Result	
Test	Blue liquid	Passed	*Not a certified value.
	Certified Value	Uncertainty	
pH at 25°C (Method: SQCP027, SQCP033)	10.009	THE RESERVED TO STREET AND THE	NIST SRM#
C1	10.003	0.02	186-I-g. 186-II-g 101d

Specification	100 1 g, 100°11°g, 191d						
Commercial D. 66 G.	Reference						
Ruffer C	ASTM (D 1293 B)						
Buffer C	ASTM (D 5464)						
pH measurements were performed in our Pocomolo City, MD 1	ACTIVITY FLOOR						

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

	production and testing
Size / Package Type	Shelf Life (Unopened Container)
4 L natural poly	10 47
500 mL natural poly	18 months
10 L Cubitainer®	18 months
1 L natural poly	- Inditions
20 L Cubitainer®	18 months
	4 L natural poly 500 mL natural poly 4 L Cubitainer®

Lot Number: 2410F80

Product Number: 1601

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## Certificate of Analysis

Buffer, Reference Standard, pH  $12.00 \pm 0.01$  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.

°C 15 20 25 30 35 40 pH 12.35 12.17 11.99 11.78 11.62 11.46

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 Result		•
Appearance	Colorless liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.009	0.02	186-I-g, 186-II-g, 191d

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

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Jose Pena (04/08/2025) Operations Manager

#### This product was tested in an ISO 17025 Accredited Laboratory

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

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## Certificate of Analysis

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

Product Number: 1551 Lot Number: 2504D34

Manufacture Date: APR 03, 2025

Expiration Date: MAR 2027

186-I-g, 186-II-g, 191d

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 7.12 7.09 7.06 7.04 7.02 7.00 6.99 6.98 6.98 6.97 6.97 pН

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	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.003	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 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)

pH at 25°C (Method: SQCP027, SQCP033)

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

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Jose Pena (04/03/2025) Operations Manager

#### This product was tested in an ISO 17025 Accredited Laboratory

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

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# SHIPPING DOCUMENTS

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CHAIN OF CUSTODY RECORD www.chemtech.net						Chemtech Project Number: 2 3016 3017													
	CLIENT INFORMATION	PRO	PROJECT INFORMATION				T				BI	LLIN	G IN	ORI	ITAN	ON			
OMPANY: Tetra To	ech	PROJECT NAME: NW	IRP Beth	page			BILL TO: SEE CONTRACT PO#												
DDRESS: 4433 Co	orporation Ln, Suite 300	PROJECT #: 112G080	05-WE1	3	LOCATION	: GW IDW		ADDF	ESS:										
ITY: Virginia Beach	n STATE: VA ZIP: 23462	PROJECT MANAGER:	: Ernie W	/u				CITY:								STAT	ΓE: ZIP:		
TTENTION: Ernie	Wu	E-MAIL: ernie.wu@tetn	atech.co	m				ATTE	NTION	1:						PHO	NE:		
HONE: 757-466-490	71 FAX: 757-461-4148	PHONE: 757-466-4901			FAX: 757-4	61-4148					AN	ALY	SIS						
DATA	TURNAROUND INFORMATION	DATA DE	LIVER	ABLE	INFOR	MATION		] &		S.	3082)								
		☐ RESULTS + QC	□ RESEULTS ONLY □ USEPA CLP □ RESULTS + QC □ New York State ASP "B" □ New Jersey REDUCED □ New York State ASP "A"			New York State ASP "B"			- VI			VOCs (EPA 624) pH Total Metals PCB's (EPA 8082)							
	ED BY CHEMTECH IAROUND TIME IS 10 BUSINESS DAYS	■ New Jersey CLP		<b>a</b> 0	ther			1	2	3	4	5	6	7	8	9			
TANDARD FORM	AROUND TIME IS TO BOOMESO DATO	□ EDD Format								P	RESE	RVA	TIVE	S		COMMENTS			
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMI TYF COWLD		SAM COLLE DATE		# of Bottles	A 1	2	B 3	4	5	6	7	8	9	<ul> <li>Specify Preservative</li> <li>A-HCI B-HNO3</li> <li>C-H2SO4 D-NaOH</li> <li>E-ICE F-Other</li> </ul>		
	BP-TB-20250903	QA		Х	9/3/25	9:00	2	2									Trip Blank		
	TT-076-IDWGW-20250903	AQ		Х	9/3/25	11:30	5	2	1	1	1						DH 1.0		
	TT-077-IDWGW-20250903	AQ		Х	9/3/25	11:40	5	2	1	1	1								
	TT-078-IDWGW-20250903	AQ		Х	9/3/25	11:50	5	2	1	1	1						\ \ \		
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ELINGUISHED BY	3.	LAD DT	Page 1 of 1 SHIPPED VIA: CLIENT: □ Hand Delivered □ Overnight Shipment Cor							Shipment Complete  YES  NO									



#### Laboratory Certification

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

QA Control Code: A2070148 Q3017-GENCHEM

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Fax: 908 789 8922

#### LOGIN REPORT/SAMPLE TRANSFER

Order ID: Q3017

TETR06

Order Date: 9/4/2025 10:17:00 AM

Project Mgr:

Client Name: Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G080

Report Type: Level 4

Client Contact: Ernie Wu

Receive DateTime: 9/4/2025 9:30:00 AM

EDD Type: ADAPT

Invoice Name: Tetra Tech NUS, Inc.

Purchase Order:

Hard Copy Date:

Invoice Contact: Ernie Wu

Date Signoff:

LAB ID	CLIENT ID	MATRIX SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q3017-01	BP-TB-20250903	Water 09/04/202 09/03/202		VOC-TCLVOA-10		624.1	2 Bus. Days		
Q3017-02	TT-076-IDWGW-20250903	Water 09/04/202 09/03/20		VOC-TCLVOA-10		624.1	2 Bus. Days		
Q3017-03	TT-077-IDWGW-20250903	Water 09/04/202		VOC-TCLVOA-10		624.1	2 Bus. Days		
Q3017-04	TT-078-IDWGW-20250903	Water 09/04/202		VOC-TCLVOA-10		624.1	2 Bus. Days		
Q3017-05	TT-079-IDWGW-20250903	Water 09/04/2020 09/03/20		VOC-TCLVOA-10		624.1	2 Bus. Days		

Relinguished By:

Received By:

Date / Time:

Storage Area: VOA Refridgerator Room

Page 1 of 1

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