

LAB CHRONICLE

OrderID:	Q2536	OrderDate:	7/9/2025 10:41:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	O21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2536-01	RW5-SP100-20250708	Water			07/08/25 10:45			07/09/25
			Alkalinity	SM2320 B			07/10/25 13:20	
			Ammonia	SM4500-NH3		07/14/25	07/14/25 12:03	
			Anions Group1	300.0			07/09/25 13:09	
			BOD5	SM5210 B			07/09/25 16:40	
			COD	SM5220 D			07/15/25 12:13	
			Cyanide	9012B		07/10/25	07/11/25 09:54	
			Phosphorus-Total	365.3		07/09/25	07/09/25 14:24	
			Sulfide	9034		07/10/25	07/10/25 13:26	
			TOC	9060A			07/10/25 12:12	
Q2536-01DL	RW5-SP100-20250708DL	WATER			07/08/25 10:45			07/09/25
			Anions Group1	300.0			07/09/25 14:57	
Q2536-02	RW7-SP100-20250708	Water			07/08/25 12:15			07/09/25
			Alkalinity	SM2320 B			07/10/25 13:30	
			Ammonia	SM4500-NH3		07/14/25	07/14/25 12:03	

LAB CHRONICLE

Anions Group1	300.0		07/09/25 13:31
BOD5	SM5210 B		07/09/25 16:40
COD	SM5220 D		07/15/25 12:13
Cyanide	9012B	07/10/25	07/11/25 10:00
Phosphorus-Total	365.3	07/09/25	07/09/25 14:25
Sulfide	9034	07/10/25	07/10/25 13:38
TOC	9060A		07/10/25 13:24

Q2536-03

**RW8-SP100-2025070
8**

Water

**07/08/25
13:05**

07/09/25

Alkalinity	SM2320 B		07/10/25 13:35
Ammonia	SM4500-NH3	07/14/25	07/14/25 12:03
Anions Group1	300.0		07/09/25 13:52
BOD5	SM5210 B		07/09/25 16:40
COD	SM5220 D		07/15/25 12:14
Cyanide	9012B	07/10/25	07/11/25 10:00
Phosphorus-Total	365.3	07/09/25	07/09/25 14:26
Sulfide	9034	07/10/25	07/10/25 13:41
TOC	9060A		07/10/25 13:48

Q2536-03DL

**RW8-SP100-2025070
8DL**

WATER

**07/08/25
13:05**

07/09/25

Anions Group1	300.0		07/09/25 15:19
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SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/08/25 10:45
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/09/25
Client Sample ID:	RW5-SP100-20250708	SDG No.:	Q2536
Lab Sample ID:	Q2536-01	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	4.40		1	1.00	1.00	2.00	mg/L		07/10/25 13:20	SM 2320 B-21
Ammonia as N	0.080	U	1	0.030	0.080	0.10	mg/L	07/14/25 08:45	07/14/25 12:03	SM 4500-NH3 B plus G-21
Chloride	10.4	OR	1	0.19	0.30	0.60	mg/L		07/09/25 13:09	300.0
Sulfate	2.40	J	1	0.46	1.50	3.00	mg/L		07/09/25 13:09	300.0
BOD5	2.00	U	1	0.20	2.00	2.00	mg/L		07/09/25 16:40	SM 5210 B-16
COD	5.00	U	1	1.50	5.00	10.0	mg/L		07/15/25 12:13	SM 5220 D-11
Cyanide	0.0025	U	1	0.00096	0.0025	0.0050	mg/L	07/10/25 15:00	07/11/25 09:54	9012B
Phosphorus, Total	0.013	J	1	0.0050	0.025	0.050	mg/L	07/09/25 11:30	07/09/25 14:24	365.3
Sulfide	0.50	U	1	0.43	0.50	1.00	mg/L	07/10/25 08:40	07/10/25 13:26	9034
TOC	0.54	J	1	0.40	0.50	1.00	mg/L		07/10/25 12:12	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:	Tetra Tech NUS, Inc.	Date Collected:	07/08/25 10:45
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/09/25
Client Sample ID:	RW5-SP100-20250708DL	SDG No.:	Q2536
Lab Sample ID:	Q2536-01DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	10.0	D	5	0.95	1.50	3.00	mg/L		07/09/25 14:57	300.0

Comments: _____

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N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/08/25 12:15
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/09/25
Client Sample ID:	RW7-SP100-20250708	SDG No.:	Q2536
Lab Sample ID:	Q2536-02	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	1.80	J	1	1.00	1.00	2.00	mg/L		07/10/25 13:30	SM 2320 B-21
Ammonia as N	0.080	U	1	0.030	0.080	0.10	mg/L	07/14/25 08:45	07/14/25 12:03	SM 4500-NH3 B plus G-21
Chloride	7.40		1	0.19	0.30	0.60	mg/L		07/09/25 13:31	300.0
Sulfate	1.40	J	1	0.46	1.50	3.00	mg/L		07/09/25 13:31	300.0
BOD5	2.00	U	1	0.20	2.00	2.00	mg/L		07/09/25 16:40	SM 5210 B-16
COD	5.00	U	1	1.50	5.00	10.0	mg/L		07/15/25 12:13	SM 5220 D-11
Cyanide	0.0025	U	1	0.00096	0.0025	0.0050	mg/L	07/10/25 15:00	07/11/25 10:00	9012B
Phosphorus, Total	0.010	J	1	0.0050	0.025	0.050	mg/L	07/09/25 11:30	07/09/25 14:25	365.3
Sulfide	0.50	U	1	0.43	0.50	1.00	mg/L	07/10/25 08:40	07/10/25 13:38	9034
TOC	0.45	J	1	0.40	0.50	1.00	mg/L		07/10/25 13:24	9060A

Comments:

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/08/25 13:05
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/09/25
Client Sample ID:	RW8-SP100-20250708	SDG No.:	Q2536
Lab Sample ID:	Q2536-03	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	1.00	U	1	1.00	1.00	2.00	mg/L		07/10/25 13:35	SM 2320 B-21
Ammonia as N	0.080	U	1	0.030	0.080	0.10	mg/L	07/14/25 08:45	07/14/25 12:03	SM 4500-NH3 B plus G-21
Chloride	11.5	OR	1	0.19	0.30	0.60	mg/L		07/09/25 13:52	300.0
Sulfate	8.70		1	0.46	1.50	3.00	mg/L		07/09/25 13:52	300.0
BOD5	2.00	U	1	0.20	2.00	2.00	mg/L		07/09/25 16:40	SM 5210 B-16
COD	5.00	U	1	1.50	5.00	10.0	mg/L		07/15/25 12:14	SM 5220 D-11
Cyanide	0.0025	U	1	0.00096	0.0025	0.0050	mg/L	07/10/25 15:00	07/11/25 10:00	9012B
Phosphorus, Total	0.010	J	1	0.0050	0.025	0.050	mg/L	07/09/25 11:30	07/09/25 14:26	365.3
Sulfide	0.50	U	1	0.43	0.50	1.00	mg/L	07/10/25 08:40	07/10/25 13:41	9034
TOC	0.45	J	1	0.40	0.50	1.00	mg/L		07/10/25 13:48	9060A

Comments:

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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:	Tetra Tech NUS, Inc.	Date Collected:	07/08/25 13:05
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/09/25
Client Sample ID:	RW8-SP100-20250708DL	SDG No.:	Q2536
Lab Sample ID:	Q2536-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Chloride	11.0	D	5	0.95	1.50	3.00	mg/L		07/09/25 15:19	300.0

Comments:

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MDL = Method Detection Limit

LOD = Limit of Detection

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H = Sample Analysis Out Of Hold Time

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QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136410

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	9.7	10	97	90-110	06/23/2025
Chloride	mg/L	2.9	3	97	90-110	06/23/2025
Fluoride	mg/L	2	2	100	90-110	06/23/2025
Nitrite	mg/L	2.9	3	97	90-110	06/23/2025
Nitrate	mg/L	2.4	2.5	96	90-110	06/23/2025
Sulfate	mg/L	14.3	15	95	90-110	06/23/2025
Orthophosphate as P	mg/L	4.9	5	98	90-110	06/23/2025
Sample ID: CCV1						
Bromide	mg/L	10	10	100	90-110	07/09/2025
Chloride	mg/L	3	3	100	90-110	07/09/2025
Fluoride	mg/L	2	2	100	90-110	07/09/2025
Nitrite	mg/L	3	3	100	90-110	07/09/2025
Nitrate	mg/L	2.5	2.5	100	90-110	07/09/2025
Sulfate	mg/L	14.8	15	99	90-110	07/09/2025
Orthophosphate as P	mg/L	5.1	5	102	90-110	07/09/2025
Sample ID: CCV2						
Bromide	mg/L	10	10	100	90-110	07/09/2025
Chloride	mg/L	3	3	100	90-110	07/09/2025
Fluoride	mg/L	2	2	100	90-110	07/09/2025
Nitrite	mg/L	3	3	100	90-110	07/09/2025
Nitrate	mg/L	2.5	2.5	100	90-110	07/09/2025
Sulfate	mg/L	14.9	15	99	90-110	07/09/2025
Orthophosphate as P	mg/L	5.1	5	102	90-110	07/09/2025

Initial and Continuing Calibration Verification**Client:** Tetra Tech NUS, Inc.**SDG No.:** Q2536**Project:** NWIRP Bethpage 112G08005-WE13**RunNo.:** LB136411

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Phosphorus, Total	mg/L	0.531	0.50	106	90-110	07/09/2025
Sample ID: CCV1 Phosphorus, Total	mg/L	0.490	0.50	98	90-110	07/09/2025
Sample ID: CCV2 Phosphorus, Total	mg/L	0.507	0.50	101	90-110	07/09/2025
Sample ID: CCV3 Phosphorus, Total	mg/L	0.499	0.50	100	90-110	07/09/2025

Initial and Continuing Calibration Verification

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136416

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	10.2	10	102	90-110	07/03/2025
Sample ID: CCV1 TOC	mg/L	9.5	10	95	90-110	07/10/2025
Sample ID: CCV2 TOC	mg/L	10.2	10	102	90-110	07/10/2025
Sample ID: CCV3 TOC	mg/L	10.2	10	102	90-110	07/10/2025

Initial and Continuing Calibration Verification

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136436

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Cyanide	mg/L	0.096	0.099	97	90-110	07/11/2025
Sample ID: CCV1 Cyanide	mg/L	0.24	0.25	96	90-110	07/11/2025
Sample ID: CCV2 Cyanide	mg/L	0.24	0.25	96	90-110	07/11/2025
Sample ID: CCV3 Cyanide	mg/L	0.25	0.25	100	90-110	07/11/2025

Initial and Continuing Calibration Verification

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136459

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	0.99	1	99	90-110	07/14/2025
Sample ID: CCV1 Ammonia as N	mg/L	1	1	100	90-110	07/14/2025
Sample ID: CCV2 Ammonia as N	mg/L	0.98	1	98	90-110	07/14/2025
Sample ID: CCV3 Ammonia as N	mg/L	1	1	100	90-110	07/14/2025
Sample ID: CCV4 Ammonia as N	mg/L	1	1	100	90-110	07/14/2025

Initial and Continuing Calibration Verification

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136477

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV COD	mg/L	50.962	50	102	95-105	05/28/2025
Sample ID: CCV1 COD	mg/L	47.915	50	96	95-105	07/15/2025
Sample ID: CCV2 COD	mg/L	48.931	50	98	95-105	07/15/2025
Sample ID: CCV3 COD	mg/L	49.946	50	100	95-105	07/15/2025

Initial and Continuing Calibration Blank Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136410

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/23/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/23/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/23/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/23/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/23/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/23/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/23/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	07/09/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	07/09/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	07/09/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	07/09/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	07/09/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	07/09/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	07/09/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	07/09/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	07/09/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	07/09/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	07/09/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	07/09/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	07/09/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	07/09/2025

Initial and Continuing Calibration Blank Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136411

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Phosphorus, Total	mg/L	0.007	0.0250	J	0.0045	0.05	07/09/2025
Sample ID: CCB1 Phosphorus, Total	mg/L	0.008	0.0250	J	0.0045	0.05	07/09/2025
Sample ID: CCB2 Phosphorus, Total	mg/L	0.007	0.0250	J	0.0045	0.05	07/09/2025
Sample ID: CCB3 Phosphorus, Total	mg/L	0.008	0.0250	J	0.0045	0.05	07/09/2025

Initial and Continuing Calibration Blank Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136416

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 0.5000	0.5000	U	0.40	1	07/03/2025
Sample ID: CCB1 TOC	mg/L	< 0.5000	0.5000	U	0.40	1	07/10/2025
Sample ID: CCB2 TOC	mg/L	< 0.5000	0.5000	U	0.40	1	07/10/2025
Sample ID: CCB3 TOC	mg/L	< 0.5000	0.5000	U	0.40	1	07/10/2025

Initial and Continuing Calibration Blank Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136436

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/11/2025
Sample ID: CCB1 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/11/2025
Sample ID: CCB2 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/11/2025
Sample ID: CCB3 Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/11/2025

Initial and Continuing Calibration Blank Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136459

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	07/14/2025
Sample ID: CCB1 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/14/2025
Sample ID: CCB2 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/14/2025
Sample ID: CCB3 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/14/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	07/14/2025

Initial and Continuing Calibration Blank Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

RunNo.: LB136477

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB COD	mg/L	< 5.0000	5.0000	U	1.50	10	05/28/2025
Sample ID: CCB1 COD	mg/L	< 5.0000	5.0000	U	1.50	10	07/15/2025
Sample ID: CCB2 COD	mg/L	< 5.0000	5.0000	U	1.50	10	07/15/2025
Sample ID: CCB3 COD	mg/L	< 5.0000	5.0000	U	1.50	10	07/15/2025

Preparation Blank Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB136410BLW						
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	07/09/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	07/09/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	07/09/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	07/09/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	07/09/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	07/09/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	07/09/2025
Sample ID:	LB136413BL						
BOD5	mg/L	< 0.2000	0.2000	U	0.20	2.0	07/09/2025
Sample ID:	LB136416BLW						
TOC	mg/L	< 0.5000	0.5000	U	0.4	1	07/10/2025
Sample ID:	LB136420BL						
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	07/10/2025
Sample ID:	LB136477BL						
COD	mg/L	< 5.0000	5.0000	U	1.5	10.0	07/15/2025
Sample ID:	PB168769BL						
Phosphorus, Total	mg/L	0.005	0.0250	J	0.005	0.05	07/09/2025
Sample ID:	PB168778BL						
Sulfide	mg/L	< 0.5000	0.5000	U	0.43	1.0	07/10/2025
Sample ID:	PB168782BL						
Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	07/11/2025
Sample ID:	PB168835BL						
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.03	0.1	07/14/2025

Matrix Spike Summary

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2536
Project: NWIRP Bethpage 112G08005-WE13 **Sample ID:** Q2470-01
Client ID: SW-1MS **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.66		0.18		0.5	1	95		07/09/2025

Matrix Spike Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2470-01
Client ID:	SW-1MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phosphorus, Total	mg/L	90-110	0.66		0.18		0.5	1	95		07/09/2025

Matrix Spike Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2536-01
Client ID:	RW5-SP100-20250708MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	9.90		0.54	J	10	1	94		07/10/2025
Ammonia as N	mg/L	75-125	0.99		0.030	U	1	1	99		07/14/2025
Sulfide	mg/L	75-125	24.2		0.43	U	25.0	1	97		07/10/2025
Cyanide	mg/L	75-125	0.040		0.00096	U	0.04	1	100		07/11/2025

Matrix Spike Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2536-01
Client ID:	RW5-SP100-20250708MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	75-125	9.90		0.54	J	10	1	94		07/10/2025
Ammonia as N	mg/L	75-125	1.00		0.030	U	1	1	100		07/14/2025
Sulfide	mg/L	75-125	24.3		0.43	U	25.0	1	97		07/10/2025
Cyanide	mg/L	75-125	0.039		0.00096	U	0.04	1	98		07/11/2025

Matrix Spike Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2536-03
Client ID:	RW8-SP100-20250708MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.2	OR	0.37	U	10	1	102		07/09/2025
Chloride	mg/L	80-120	14.3		11.5	OR	3	1	93		07/09/2025
Fluoride	mg/L	80-120	2.00		0.11	U	2	1	100		07/09/2025
Nitrite	mg/L	80-120	3.00		0.074	U	3	1	100		07/09/2025
Nitrate	mg/L	80-120	2.60		0.15	J	2.5	1	98		07/09/2025
Sulfate	mg/L	80-120	23.2		8.70		15	1	97		07/09/2025
Orthophosphate as P	mg/L	80-120	4.60		0.34	U	5	1	92		07/09/2025

Matrix Spike Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2536-03
Client ID:	RW8-SP100-20250708MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	9.90	OR	0.37	U	10	1	99		07/09/2025
Chloride	mg/L	80-120	14.2		11.5	OR	3	1	90		07/09/2025
Fluoride	mg/L	80-120	2.00		0.11	U	2	1	100		07/09/2025
Nitrite	mg/L	80-120	2.90		0.074	U	3	1	97		07/09/2025
Nitrate	mg/L	80-120	2.50		0.15	J	2.5	1	94		07/09/2025
Sulfate	mg/L	80-120	22.7		8.70		15	1	93		07/09/2025
Orthophosphate as P	mg/L	80-120	4.80		0.34	U	5	1	96		07/09/2025

Matrix Spike Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2602-01
Client ID:	FRAC-TANK-266380MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
COD	mg/L	75-125	46.9		1.50	U	50.0	1	94		07/15/2025

Matrix Spike Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2602-01
Client ID:	FRAC-TANK-266380MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
COD	mg/L	75-125	47.9		1.50	U	50.0	1	96		07/15/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2470-01
Client ID:	SW-1DUP	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
Phosphorus, Total	mg/L	+/-20	0.18		0.19		1	1.63		07/09/2025

Duplicate Sample Summary

Client: Tetra Tech NUS, Inc. Project: NWIRP Bethpage 112G08005-WE13 Client ID: SW-1MSD	SDG No.: Q2536 Sample ID: Q2470-01 Percent Solids for Spike Sample: 0
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Phosphorus, Total	mg/L	+/-20	0.66		0.66		1	0.46		07/09/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2536-01
Client ID:	RW5-SP100-20250708DUP	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
Alkalinity	mg/L	+/-20	4.40		4.00		1	9.52		07/10/2025
Sulfide	mg/L	+/-20	0.43	U	0.43	U	1	0		07/10/2025
Cyanide	mg/L	+/-20	0.00096	U	0.00096	U	1	0		07/11/2025
Ammonia as N	mg/L	+/-20	0.030	U	0.030	U	1	0		07/14/2025

Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.	SDG No.: Q2536
Project: NWIRP Bethpage 112G08005-WE13	Sample ID: Q2536-01
Client ID: RW5-SP100-20250708MSD	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
TOC	mg/L	+/-20	9.90		9.90		1	0		07/10/2025
Sulfide	mg/L	+/-20	24.2		24.3		1	0.41		07/10/2025
Cyanide	mg/L	+/-20	0.040		0.039		1	3		07/11/2025
Ammonia as N	mg/L	+/-20	0.99		1.00		1	1		07/14/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2536-03
Client ID:	RW8-SP100-20250708MSD	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
Fluoride	mg/L	+/-20	2.00	OR	2.00	OR	1	0		07/09/2025
Chloride	mg/L	+/-20	14.3		14.2		1	1		07/09/2025
Sulfate	mg/L	+/-20	23.2		22.7		1	2		07/09/2025
Bromide	mg/L	+/-20	10.2		9.90		1	3		07/09/2025
Nitrite	mg/L	+/-20	3.00		2.90		1	3		07/09/2025
Nitrate	mg/L	+/-20	2.60		2.50		1	4		07/09/2025
Orthophosphate as P	mg/L	+/-20	4.60		4.80		1	4		07/09/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2548-02
Client ID:	COMPDUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
BOD5	mg/L	+/-20	682		709		1	3.88		07/09/2025

Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.	SDG No.: Q2536
Project: NWIRP Bethpage 112G08005-WE13	Sample ID: Q2602-01
Client ID: FRAC-TANK-266380DUP	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
COD	mg/L	+/-20	1.50	U	1.50	U	1	0		07/15/2025

Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.	SDG No.: Q2536
Project: NWIRP Bethpage 112G08005-WE13	Sample ID: Q2602-01
Client ID: FRAC-TANK-266380MSD	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
COD	mg/L	+/-20	46.9		47.9		1	2.11		07/15/2025

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2536
Project:	NWIRP Bethpage 112G08005-WE13	Run No.:	LB136410

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136410BSW							
Bromide	mg/L	10	10.1		101	1	90-110	07/09/2025
Chloride	mg/L	3	3.00		100	1	90-110	07/09/2025
Fluoride	mg/L	2	2.00		100	1	90-110	07/09/2025
Nitrite	mg/L	3	3.00		100	1	90-110	07/09/2025
Nitrate	mg/L	2.5	2.50		100	1	90-110	07/09/2025
Sulfate	mg/L	15	14.9		99	1	90-110	07/09/2025
Orthophosphate as P	mg/L	5	5.10		102	1	90-110	07/09/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136413

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136413BS							
BOD5	mg/L	198	212		107	1	84.6-115.4	07/09/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136416

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136416BSW							
TOC	mg/L	10	9.50		95	1	90-110	07/10/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136420

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136420BS							
Alkalinity	mg/L	50	44.2		88	1	80-120	07/10/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136477

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136477BS							
COD	mg/L	50	51.0		102	1	90-110	07/15/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136411

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168769BS							
Phosphorus, Total	mg/L	0.50	0.50		100	1	90-110	07/09/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136421

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168778BS							
Sulfide	mg/L	25	24.0		96	1	80-120	07/10/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136436

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168782BS							
Cyanide	mg/L	0.1	0.097		97	1	85-115	07/11/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2536

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136459

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168835BS							
Ammonia as N	mg/L	1	0.96		96	1	90-110	07/14/2025