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LAB CHRONICLE

OrderID:	Q2937	**OrderDate:**	8/22/2025 9:37:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	J31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2937-01	**RW8-SP100-20250821**	**Water**			**08/21/25**			**08/22/25**
			Metals Group4	6010D		08/25/25	08/26/25	
Q2937-02	**RW8-SP303-20250821**	**Water**			**08/21/25**			**08/22/25**
			Metals Group4	6010D		08/25/25	08/26/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2937 **Order ID:** Q2937

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW8-SP100-20250821									
Q2937-01	RW8-SP100-20250821	Water	Iron	5190		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20250821									
Q2937-02	RW8-SP303-20250821	Water	Iron	1240		11.7	40.0	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/22/25
Client Sample ID:	RW8-SP100-20250821	SDG No.:	Q2937
Lab Sample ID:	Q2937-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	5190		1	11.7	40.0	50.0	ug/L	08/25/25 10:10	08/26/25 13:51	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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

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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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/22/25
Client Sample ID:	RW8-SP303-20250821	SDG No.:	Q2937
Lab Sample ID:	Q2937-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	1240		1	11.7	40.0	50.0	ug/L	08/25/25 10:10	08/26/25 13:56	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group4				

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

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

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Iron	3960	4000	99	90 - 110	P	08/26/2025	11:14	LB136973

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Iron	97.1	100	97	80 - 120	P	08/26/2025	11:20	LB136973

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Iron	5040	5000	101	90 - 110	P	08/26/2025	11:50	LB136973
CCV02	Iron	5260	5000	105	90 - 110	P	08/26/2025	12:41	LB136973
CCV03	Iron	5080	5000	102	90 - 110	P	08/26/2025	13:30	LB136973
CCV04	Iron	5230	5000	105	90 - 110	P	08/26/2025	14:20	LB136973

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Iron	96.8	100	97	65 - 135	P	08/26/2025	11:29	LB136973

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Iron	23.4	+/-50	U	80.0	100	P	08/26/2025	11:24	LB136973

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Iron	23.4	+/-50	U	80.0	100	P	08/26/2025	11:54	LB136973
CCB02	Iron	23.4	+/-50	U	80.0	100	P	08/26/2025	12:45	LB136973
CCB03	Iron	23.4	+/-50	U	80.0	100	P	08/26/2025	13:35	LB136973
CCB04	Iron	23.4	+/-50	U	80.0	100	P	08/26/2025	14:24	LB136973

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169379BL		**WATER**		**Batch Number:**		**PB169379**		**Prep Date:**	**08/25/2025**	
	Iron	11.7	<25	U	40.0	50.0	P	08/26/2025	12:54	LB136973

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Iron	99200	101000	98	85600	116500	08/26/2025	11:33	LB136973
ICSAB01	Iron	100000	99300	101	84400	114500	08/26/2025	11:37	LB136973

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2937

contract: TETR06 **lab code:** ACE

matrix: Water **sample id:** Q2937-02 **client id:** RW8-SP303-20250821MS

Percent Solids for Sample: NA **Spiked ID:** Q2937-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	2620		1240		1500	92		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2937

contract: TETR06 **lab code:** ACE

matrix: Water **sample id:** Q2937-02 **client id:** RW8-SP303-20250821MSD

Percent Solids for Sample: NA **Spiked ID:** Q2937-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	2730		1240		1500	99		P

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Metals
- 5b -

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Matrix: **Level:** LOW **Client ID:**

Sample ID: **Spiked ID:**

Analyte	Units	Acceptance Limit %R	C	Sample Result	C	Spike Added	% Recovery	Qual	M

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2937-02 **Client ID:** RW8-SP303-20250821DUP

Percent Solids for Sample: NA **Duplicate ID** Q2937-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1240		1240		0		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2937-02MS **Client ID:** RW8-SP303-20250821MSD

Percent Solids for Sample: NA **Duplicate ID** Q2937-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	2620		2730		4		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169379BS							
Iron	ug/L	1500	1410		94	87 - 115	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250821L

Lab Name: Alliance **Contract:** TETR06

Lab Code: ACE **Lb No.:** lb136973 **Lab Sample ID :** Q2937-02L **SDG No.:** Q2937

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Iron	1240		1390		12		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2937

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2937

Contract: TETR06 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB169379**						
PB169379BL	PB169379BL	MB	WATER	08/25/2025	50.0	25.0	
PB169379BS	PB169379BS	LCS	WATER	08/25/2025	50.0	25.0	
Q2937-01	RW8-SP100-20250821	SAM	WATER	08/25/2025	50.0	25.0	
Q2937-02	RW8-SP303-20250821	SAM	WATER	08/25/2025	50.0	25.0	
Q2937-02DUP	RW8-SP303-20250821DUP	DUP	WATER	08/25/2025	50.0	25.0	
Q2937-02MS	RW8-SP303-20250821MS	MS	WATER	08/25/2025	50.0	25.0	
Q2937-02MSD	RW8-SP303-20250821MSD	MSD	WATER	08/25/2025	50.0	25.0	

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metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: ACE **Sdg no.:** Q2937

Instrument id number: **Method:** **Run number:** LB136973

Start date: 08/26/2025 **End date:** 08/26/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1049	Fe
S1	S1	1	1053	Fe
S2	S2	1	1058	Fe
S3	S3	1	1102	Fe
S4	S4	1	1106	Fe
S5	S5	1	1110	Fe
ICV01	ICV01	1	1114	Fe
LLICV01	LLICV01	1	1120	Fe
ICB01	ICB01	1	1124	Fe
CRI01	CRI01	1	1129	Fe
ICSA01	ICSA01	1	1133	Fe
ICSAB01	ICSAB01	1	1137	Fe
CCV01	CCV01	1	1150	Fe
CCB01	CCB01	1	1154	Fe
CCV02	CCV02	1	1241	Fe
CCB02	CCB02	1	1245	Fe
PB169379BL	PB169379BL	1	1254	Fe
PB169379BS	PB169379BS	1	1258	Fe
CCV03	CCV03	1	1330	Fe
CCB03	CCB03	1	1335	Fe
Q2937-01	RW8-SP100-20250821	1	1351	Fe
Q2937-02	RW8-SP303-20250821	1	1356	Fe
Q2937-02DUP	RW8-SP303-20250821DUP	1	1400	Fe
Q2937-02L	RW8-SP303-20250821L	5	1404	Fe
Q2937-02MS	RW8-SP303-20250821MS	1	1408	Fe
Q2937-02MSD	RW8-SP303-20250821MSD	1	1412	Fe
CCV04	CCV04	1	1420	Fe
CCB04	CCB04	1	1424	Fe