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LAB CHRONICLE

OrderID:	Q3142	**OrderDate:**	9/18/2025 4:02:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	J51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3142-01	**RW8-SP100-20250918**	**Water**			**09/18/25**			**09/18/25**
			Metals Group4	6010D		09/22/25	09/24/25	
Q3142-02	**RW8-SP303-20250918**	**Water**			**09/18/25**			**09/18/25**
			Metals Group4	6010D		09/22/25	09/24/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3142 **Order ID:** Q3142

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-SP100-20250918									
Q3142-01	RW8-SP100-20250918	Water	Iron	651		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20250918									
Q3142-02	RW8-SP303-20250918	Water	Iron	49.3	J	11.7	40.0	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	RW8-SP100-20250918	SDG No.:	Q3142
Lab Sample ID:	Q3142-01	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	651		1	11.7	40.0	50.0	ug/L	09/22/25 10:40	09/24/25 15:11	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:	09/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/18/25
Client Sample ID:	RW8-SP303-20250918	SDG No.:	Q3142
Lab Sample ID:	Q3142-02	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	49.3	J	1	11.7	40.0	50.0	ug/L	09/22/25 10:40	09/24/25 15:15	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.:** Q3142

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	09/24/2025	11:34	LB137295

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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	115	100	115	80 - 120	P	09/24/2025	11:44	LB137295

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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	5200	5000	104	90 - 110	P	09/24/2025	12:21	LB137295
CCV02	Iron	5020	5000	100	90 - 110	P	09/24/2025	13:40	LB137295
CCV03	Iron	4740	5000	95	90 - 110	P	09/24/2025	14:42	LB137295
CCV04	Iron	4960	5000	99	90 - 110	P	09/24/2025	15:41	LB137295
CCV05	Iron	4990	5000	100	90 - 110	P	09/24/2025	16:31	LB137295
CCV06	Iron	4900	5000	98	90 - 110	P	09/24/2025	17:33	LB137295
CCV07	Iron	4850	5000	97	90 - 110	P	09/24/2025	18:37	LB137295
CCV08	Iron	4890	5000	98	90 - 110	P	09/24/2025	19:03	LB137295

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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	94.1	100	94	65 - 135	P	09/24/2025	12:00	LB137295

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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	09/24/2025	11:56	LB137295

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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	09/24/2025	12:26	LB137295
CCB02	Iron	23.4	+/-50	U	80.0	100	P	09/24/2025	13:44	LB137295
CCB03	Iron	23.4	+/-50	U	80.0	100	P	09/24/2025	14:46	LB137295
CCB04	Iron	23.4	+/-50	U	80.0	100	P	09/24/2025	15:46	LB137295
CCB05	Iron	23.4	+/-50	U	80.0	100	P	09/24/2025	16:35	LB137295
CCB06	Iron	23.4	+/-50	U	80.0	100	P	09/24/2025	17:37	LB137295
CCB07	Iron	23.4	+/-50	U	80.0	100	P	09/24/2025	18:42	LB137295
CCB08	Iron	23.4	+/-50	U	80.0	100	P	09/24/2025	19:07	LB137295

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169760BL		**WATER**		**Batch Number:**		**PB169760**		**Prep Date:**	**09/22/2025**	
	Iron	11.7	<25	U	40.0	50.0	P	09/24/2025	15:25	LB137295

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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	103000	101000	102	85600	116500	09/24/2025	12:04	LB137295
ICSAB01	Iron	103000	99300	104	84400	114500	09/24/2025	12:08	LB137295

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q3142

contract: TETR06 **lab code:** ACE

matrix: Water **sample id:** Q3151-02 **client id:** 1402MS

Percent Solids for Sample: NA **Spiked ID:** Q3151-02MS **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	1930		510		1500	95		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q3142

contract: TETR06 **lab code:** ACE

matrix: Water **sample id:** Q3151-02 **client id:** 1402MSD

Percent Solids for Sample: NA **Spiked ID:** Q3151-02MSD **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	1860		510		1500	90		P

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Metals
- 5b -

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q3142

Contract: TETR06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3151-02 **Client ID:** 1402DUP

Percent Solids for Sample: NA **Duplicate ID** Q3151-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	510		421		19		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

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q3142

Contract: TETR06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q3151-02MS **Client ID:** 1402MSD

Percent Solids for Sample: NA **Duplicate ID** Q3151-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1930		1860		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.:** Q3142

Contract: TETR06 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169760BS							
Iron	ug/L	1500	1430		95	87 - 115	P

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

1402L

Lab Name: Alliance **Contract:** TETR06

Lab Code: ACE **Lb No.:** lb137295 **Lab Sample ID :** Q3151-02L **SDG No.:** Q3142

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	510		413		19		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3142

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
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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.:** Q3142

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.: Q3142

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
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q3142

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:	**PB169760**						
PB169760BL	PB169760BL	MB	WATER	09/22/2025	50.0	25.0	
PB169760BS	PB169760BS	LCS	WATER	09/22/2025	50.0	25.0	
Q3142-01	RW8-SP100-20250918	SAM	WATER	09/22/2025	50.0	25.0	
Q3142-02	RW8-SP303-20250918	SAM	WATER	09/22/2025	50.0	25.0	
Q3151-02DUP	1402DUP	DUP	WATER	09/22/2025	50.0	25.0	
Q3151-02MS	1402MS	MS	WATER	09/22/2025	50.0	25.0	
Q3151-02MSD	1402MSD	MSD	WATER	09/22/2025	50.0	25.0	

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metals
- 14 -
ANALYSIS RUN LOG

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

Lab code: ACE **Sdg no.:** Q3142

Instrument id number: **Method:** **Run number:** LB137295

Start date: 09/24/2025 **End date:** 09/24/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1054	Fe
S1	S1	1	1058	Fe
S2	S2	1	1103	Fe
S3	S3	1	1107	Fe
S4	S4	1	1110	Fe
S5	S5	1	1115	Fe
ICV01	ICV01	1	1134	Fe
LLICV01	LLICV01	1	1144	Fe
ICB01	ICB01	1	1156	Fe
CRI01	CRI01	1	1200	Fe
ICSA01	ICSA01	1	1204	Fe
ICSAB01	ICSAB01	1	1208	Fe
CCV01	CCV01	1	1221	Fe
CCB01	CCB01	1	1226	Fe
CCV02	CCV02	1	1340	Fe
CCB02	CCB02	1	1344	Fe
CCV03	CCV03	1	1442	Fe
CCB03	CCB03	1	1446	Fe
Q3151-02DUP	1402DUP	1	1450	Fe
Q3151-02L	1402L	5	1455	Fe
Q3151-02MS	1402MS	1	1459	Fe
Q3151-02MSD	1402MSD	1	1503	Fe
Q3142-01	RW8-SP100-20250918	1	1511	Fe
Q3142-02	RW8-SP303-20250918	1	1515	Fe
PB169760BL	PB169760BL	1	1525	Fe
PB169760BS	PB169760BS	1	1533	Fe
CCV04	CCV04	1	1541	Fe
CCB04	CCB04	1	1546	Fe
CCV05	CCV05	1	1631	Fe
CCB05	CCB05	1	1635	Fe
CCV06	CCV06	1	1733	Fe
CCB06	CCB06	1	1737	Fe
CCV07	CCV07	1	1837	Fe
CCB07	CCB07	1	1842	Fe
CCV08	CCV08	1	1903	Fe
CCB08	CCB08	1	1907	Fe