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LAB CHRONICLE

OrderID:	Q2439	**OrderDate:**	6/27/2025 11:04:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	A33

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2439-01	**RW8-SP100-20250626**	**Water**			**06/26/25**			**06/27/25**
			Metals Group4	6010D		06/30/25	07/01/25	
Q2439-02	**RW8-SP303-20250626**	**Water**			**06/26/25**			**06/27/25**
			Metals Group4	6010D		06/30/25	07/01/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2439 **Order ID:** Q2439

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-SP100-20250626									
Q2439-01	RW8-SP100-20250626	Water	Iron	824		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20250626									
Q2439-02	RW8-SP303-20250626	Water	Iron	89.4		11.7	40.0	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/27/25
Client Sample ID:	RW8-SP100-20250626	SDG No.:	Q2439
Lab Sample ID:	Q2439-01	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	824		1	11.7	40.0	50.0	ug/L	06/30/25 10:05	07/01/25 20:56	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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/27/25
Client Sample ID:	RW8-SP303-20250626	SDG No.:	Q2439
Lab Sample ID:	Q2439-02	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	89.4		1	11.7	40.0	50.0	ug/L	06/30/25 10:05	07/01/25 21:00	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.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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	3700	4000	93	90 - 110	P	07/01/2025	16:17	LB136345

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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	107	100	107	80 - 120	P	07/01/2025	16:31	LB136345

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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	5170	5000	103	90 - 110	P	07/01/2025	17:07	LB136345
CCV02	Iron	4920	5000	98	90 - 110	P	07/01/2025	18:37	LB136345
CCV03	Iron	4790	5000	96	90 - 110	P	07/01/2025	19:33	LB136345
CCV04	Iron	4960	5000	99	90 - 110	P	07/01/2025	20:43	LB136345
CCV05	Iron	4750	5000	95	90 - 110	P	07/01/2025	21:26	LB136345
CCV06	Iron	4770	5000	96	90 - 110	P	07/01/2025	21:45	LB136345

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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	104	100	104	65 - 135	P	07/01/2025	16:41	LB136345

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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	07/01/2025	16:37	LB136345

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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	07/01/2025	17:12	LB136345
CCB02	Iron	23.4	+/-50	U	80.0	100	P	07/01/2025	18:41	LB136345
CCB03	Iron	23.4	+/-50	U	80.0	100	P	07/01/2025	19:37	LB136345
CCB04	Iron	23.4	+/-50	U	80.0	100	P	07/01/2025	20:47	LB136345
CCB05	Iron	23.4	+/-50	U	80.0	100	P	07/01/2025	21:31	LB136345
CCB06	Iron	23.4	+/-50	U	80.0	100	P	07/01/2025	21:49	LB136345

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Instrument: P5

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168661BL		**WATER**		**Batch Number:**		**PB168661**		**Prep Date:**	**06/30/2025**	
	Iron	11.7	<25	U	40.0	50.0	P	07/01/2025	21:41	LB136345

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

ICS Source: EPA **Instrument ID:** P5

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	91600	100000	92	85600	116500	07/01/2025	16:50	LB136345
ICSAB01	Iron	94600	99000	96	84400	114500	07/01/2025	16:54	LB136345

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2439

contract: TETR06 **lab code:** CHEM **case no.:** Q2439 **sas no.:** Q2439

matrix: Water **sample id:** Q2439-02 **client id:** RW8-SP303-20250626MS

Percent Solids for Sample: NA **Spiked ID:** Q2439-02MS **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	1690		89.4		1500	107		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2439

contract: TETR06 **lab code:** CHEM **case no.:** Q2439 **sas no.:** Q2439

matrix: Water **sample id:** Q2439-02 **client id:** RW8-SP303-20250626MSD

Percent Solids for Sample: NA **Spiked ID:** Q2439-02MSD **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	1560		89.4		1500	98		P

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Metals
- 5b -

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

Matrix: Water **Sample ID:** Q2439-02 **Client ID:** RW8-SP303-20250626DUP

Percent Solids for Sample: NA **Duplicate ID** Q2439-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	89.4		84.8		5		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.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

Matrix: Water **Sample ID:** Q2439-02MS **Client ID:** RW8-SP303-20250626MSD

Percent Solids for Sample: NA **Duplicate ID** Q2439-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1690		1560		8		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.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168661BS							
Iron	ug/L	1500	1650		110	87 - 115	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250626L

Lab Name: Chemtech Consulting Group **Contract:** TETR06

Lab Code: CHEM **Lb No.:** lb136345 **Lab Sample ID :** Q2439-02L **SDG No.:** Q2439

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	89.4		88.5	J	1		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.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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	0.0000000

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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	0.0000000	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.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2439 **SAS No.:** Q2439

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.:** Q2439

Contract: TETR06 **Lab Code:** CHEM **Method:**

Case No.: Q2439 **SAS No.:** Q2439

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB168661**						
PB168661BL	PB168661BL	MB	WATER	06/30/2025	50.0	25.0	
PB168661BS	PB168661BS	LCS	WATER	06/30/2025	50.0	25.0	
Q2439-01	RW8-SP100-20250626	SAM	WATER	06/30/2025	50.0	25.0	
Q2439-02	RW8-SP303-20250626	SAM	WATER	06/30/2025	50.0	25.0	
Q2439-02DUP	RW8-SP303-20250626DUP	DUP	WATER	06/30/2025	50.0	25.0	
Q2439-02MS	RW8-SP303-20250626MS	MS	WATER	06/30/2025	50.0	25.0	
Q2439-02MSD	RW8-SP303-20250626MSD	MSD	WATER	06/30/2025	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: CHEM **Case no.:** Q2439 **Sas no.:** Q2439 **Sdg no.:** Q2439

Instrument id number: **Method:** **Run number:** LB136345

Start date: 07/01/2025 **End date:** 07/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1528	Fe
S1	S1	1	1533	Fe
S2	S2	1	1537	Fe
S3	S3	1	1542	Fe
S4	S4	1	1546	Fe
S5	S5	1	1550	Fe
ICV01	ICV01	1	1617	Fe
LLICV01	LLICV01	1	1631	Fe
ICB01	ICB01	1	1637	Fe
CRI01	CRI01	1	1641	Fe
ICSA01	ICSA01	1	1650	Fe
ICSAB01	ICSAB01	1	1654	Fe
CCV01	CCV01	1	1707	Fe
CCB01	CCB01	1	1712	Fe
PB168661BS	PB168661BS	1	1811	Fe
CCV02	CCV02	1	1837	Fe
CCB02	CCB02	1	1841	Fe
CCV03	CCV03	1	1933	Fe
CCB03	CCB03	1	1937	Fe
CCV04	CCV04	1	2043	Fe
CCB04	CCB04	1	2047	Fe
Q2439-01	RW8-SP100-20250626	1	2056	Fe
Q2439-02	RW8-SP303-20250626	1	2100	Fe
Q2439-02DUP	RW8-SP303-20250626DUP	1	2105	Fe
Q2439-02L	RW8-SP303-20250626L	5	2109	Fe
Q2439-02MS	RW8-SP303-20250626MS	1	2113	Fe
Q2439-02MSD	RW8-SP303-20250626MSD	1	2118	Fe
CCV05	CCV05	1	2126	Fe
CCB05	CCB05	1	2131	Fe
PB168661BL	PB168661BL	1	2141	Fe
CCV06	CCV06	1	2145	Fe
CCB06	CCB06	1	2149	Fe