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LAB CHRONICLE

OrderID:	Q2881	**OrderDate:**	8/15/2025 10:55:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	J32

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2881-01	**RW8-SP100-20250814**	**Water**			**08/14/25**			**08/15/25**
			Metals Group4	6010D		08/19/25	08/20/25	
Q2881-02	**RW8-SP303-20250814**	**Water**			**08/14/25**			**08/15/25**
			Metals Group4	6010D		08/19/25	08/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2881 **Order ID:** Q2881

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-SP100-20250814									
Q2881-01	RW8-SP100-20250814	Water	Iron	566		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20250814									
Q2881-02	RW8-SP303-20250814	Water	Iron	53.5		11.7	40.0	50.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/14/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/15/25
Client Sample ID:	RW8-SP100-20250814	SDG No.:	Q2881
Lab Sample ID:	Q2881-01	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	566		1	11.7	40.0	50.0	ug/L	08/19/25 10:02	08/20/25 16:02	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:	08/14/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/15/25
Client Sample ID:	RW8-SP303-20250814	SDG No.:	Q2881
Lab Sample ID:	Q2881-02	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	53.5		1	11.7	40.0	50.0	ug/L	08/19/25 10:02	08/20/25 16:06	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.:** Q2881

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	3970	4000	99	90 - 110	P	08/20/2025	13:04	LB136898

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2881

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	103	100	103	80 - 120	P	08/20/2025	13:17	LB136898

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2881

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	5020	5000	100	90 - 110	P	08/20/2025	13:47	LB136898
CCV02	Iron	5060	5000	101	90 - 110	P	08/20/2025	14:39	LB136898
CCV03	Iron	4950	5000	99	90 - 110	P	08/20/2025	15:45	LB136898
CCV04	Iron	4980	5000	100	90 - 110	P	08/20/2025	16:35	LB136898
CCV05	Iron	4930	5000	98	90 - 110	P	08/20/2025	17:09	LB136898

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2881

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	95.2	100	95	65 - 135	P	08/20/2025	13:26	LB136898

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2881

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	08/20/2025	13:21	LB136898

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2881

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	08/20/2025	13:51	LB136898
CCB02	Iron	23.4	+/-50	U	80.0	100	P	08/20/2025	14:43	LB136898
CCB03	Iron	23.4	+/-50	U	80.0	100	P	08/20/2025	15:49	LB136898
CCB04	Iron	23.4	+/-50	U	80.0	100	P	08/20/2025	16:39	LB136898
CCB05	Iron	23.4	+/-50	U	80.0	100	P	08/20/2025	17:13	LB136898

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2881

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169303BL		**WATER**		**Batch Number:**		**PB169303**		**Prep Date:**	**08/19/2025**	
	Iron	11.7	<25	U	40.0	50.0	P	08/20/2025	15:53	LB136898

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2881

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	08/20/2025	13:30	LB136898
ICSAB01	Iron	101000	99300	102	84400	114500	08/20/2025	13:34	LB136898

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2881

contract: TETR06 **lab code:** ACE

matrix: Water **sample id:** Q2881-02 **client id:** RW8-SP303-20250814MS

Percent Solids for Sample: NA **Spiked ID:** Q2881-02MS **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	1450		53.5		1500	93		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2881

contract: TETR06 **lab code:** ACE

matrix: Water **sample id:** Q2881-02 **client id:** RW8-SP303-20250814MSD

Percent Solids for Sample: NA **Spiked ID:** Q2881-02MSD **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	1420		53.5		1500	91		P

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Metals
- 5b -

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2881

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.:** Q2881

Contract: TETR06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2881-02 **Client ID:** RW8-SP303-20250814DUP

Percent Solids for Sample: NA **Duplicate ID** Q2881-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	53.5		62.9		16		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.:** Q2881

Contract: TETR06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2881-02MS **Client ID:** RW8-SP303-20250814MSD

Percent Solids for Sample: NA **Duplicate ID** Q2881-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1450		1420		2		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.:** Q2881

Contract: TETR06 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169303BS							
Iron	ug/L	1500	1520		101	87 - 115	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250814L

Lab Name: Alliance **Contract:** TETR06

Lab Code: ACE **Lb No.:** lb136898 **Lab Sample ID :** Q2881-02L **SDG No.:** Q2881

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	53.5		63.4	J	18		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.: Q2881

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.: Q2881

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.:** Q2881

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.:** Q2881

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.:** Q2881

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.:** Q2881

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:	**PB169303**						
PB169303BL	PB169303BL	MB	WATER	08/19/2025	50.0	25.0	
PB169303BS	PB169303BS	LCS	WATER	08/19/2025	50.0	25.0	
Q2881-01	RW8-SP100-20250814	SAM	WATER	08/19/2025	50.0	25.0	
Q2881-02	RW8-SP303-20250814	SAM	WATER	08/19/2025	50.0	25.0	
Q2881-02DUP	RW8-SP303-20250814DUP	DUP	WATER	08/19/2025	50.0	25.0	
Q2881-02MS	RW8-SP303-20250814MS	MS	WATER	08/19/2025	50.0	25.0	
Q2881-02MSD	RW8-SP303-20250814MSD	MSD	WATER	08/19/2025	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.:** Q2881

Instrument id number: **Method:** **Run number:** LB136898

Start date: 08/20/2025 **End date:** 08/20/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1238	Fe
S1	S1	1	1243	Fe
S2	S2	1	1247	Fe
S3	S3	1	1251	Fe
S4	S4	1	1255	Fe
S5	S5	1	1259	Fe
ICV01	ICV01	1	1304	Fe
LLICV01	LLICV01	1	1317	Fe
ICB01	ICB01	1	1321	Fe
CRI01	CRI01	1	1326	Fe
ICSA01	ICSA01	1	1330	Fe
ICSAB01	ICSAB01	1	1334	Fe
CCV01	CCV01	1	1347	Fe
CCB01	CCB01	1	1351	Fe
CCV02	CCV02	1	1439	Fe
CCB02	CCB02	1	1443	Fe
CCV03	CCV03	1	1545	Fe
CCB03	CCB03	1	1549	Fe
PB169303BL	PB169303BL	1	1553	Fe
PB169303BS	PB169303BS	1	1558	Fe
Q2881-01	RW8-SP100-20250814	1	1602	Fe
Q2881-02	RW8-SP303-20250814	1	1606	Fe
Q2881-02DUP	RW8-SP303-20250814DUP	1	1610	Fe
Q2881-02L	RW8-SP303-20250814L	5	1614	Fe
Q2881-02MS	RW8-SP303-20250814MS	1	1619	Fe
Q2881-02MSD	RW8-SP303-20250814MSD	1	1623	Fe
CCV04	CCV04	1	1635	Fe
CCB04	CCB04	1	1639	Fe
CCV05	CCV05	1	1709	Fe
CCB05	CCB05	1	1713	Fe