

LAB CHRONICLE

OrderID:	Q3690	OrderDate:	11/20/2025 9:59:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	A11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3690-01	RW8-SP100-20251118	Water			11/18/25			11/20/25
			Metals Group4	6010D		11/20/25	11/21/25	
Q3690-02	RW8-SP303-20251118	Water			11/18/25			11/20/25
			Metals Group4	6010D		11/20/25	11/21/25	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.:	Q3690	Order ID:	Q3690
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-SP100-20251118									
Q3690-01	RW8-SP100-20251118	Water	Iron	718		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20251118									
Q3690-02	RW8-SP303-20251118	Water	Iron	101		11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	11/20/25
Client Sample ID:	RW8-SP100-20251118	SDG No.:	Q3690
Lab Sample ID:	Q3690-01	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	718	1	11.7	40.0	50.0		ug/L	11/20/25 10:35	11/21/25 16:11	6010D	M3010A

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/18/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	11/20/25
Client Sample ID:	RW8-SP303-20251118	SDG No.:	Q3690
Lab Sample ID:	Q3690-02	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	101		1	11.7	40.0	50.0	ug/L	11/20/25 10:35	11/21/25 16:15	6010D	M3010A

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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	3840	4000	96	90 - 110	P	11/21/2025	13:00	LB138017

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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	101	100	101	80 - 120	P	11/21/2025	13:09	LB138017

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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	11/21/2025	13:44	LB138017
CCV02	Iron	4800	5000	96	90 - 110	P	11/21/2025	14:48	LB138017
CCV03	Iron	4870	5000	98	90 - 110	P	11/21/2025	15:38	LB138017
CCV04	Iron	4860	5000	97	90 - 110	P	11/21/2025	16:28	LB138017
CCV05	Iron	4860	5000	97	90 - 110	P	11/21/2025	17:50	LB138017
CCV06	Iron	4950	5000	99	90 - 110	P	11/21/2025	18:41	LB138017
CCV07	Iron	4950	5000	99	90 - 110	P	11/21/2025	19:31	LB138017



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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	97.1	100	97	65 - 135	P	11/21/2025	13:17	LB138017



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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

Tetra Tech NUS, Inc.

SDG No.:

Q3690

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	11/21/2025	13:13	LB138017

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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	11/21/2025	13:48	LB138017
CCB02	Iron	23.4	+/-50	U	80.0	100	P	11/21/2025	14:52	LB138017
CCB03	Iron	23.4	+/-50	U	80.0	100	P	11/21/2025	15:42	LB138017
CCB04	Iron	23.4	+/-50	U	80.0	100	P	11/21/2025	16:32	LB138017
CCB05	Iron	23.4	+/-50	U	80.0	100	P	11/21/2025	17:55	LB138017
CCB06	Iron	23.4	+/-50	U	80.0	100	P	11/21/2025	18:45	LB138017
CCB07	Iron	23.4	+/-50	U	80.0	100	P	11/21/2025	19:35	LB138017

Metals
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PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170663BL		WATER		Batch Number:		PB170663		Prep Date:	11/20/2025	
	Iron	11.7	<25	U	40.0	50.0	P	11/21/2025	14:01	LB138017

Metals

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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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	95400	101000	94	85600	116500	11/21/2025	13:22	LB138017
ICSAB01	Iron	92700	99300	93	84400	114500	11/21/2025	13:26	LB138017



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	Q3690
contract:	TETR06			lab code:	ACE
matrix:	Water	sample id:	Q3687-01	client id:	N43502MS
Percent Solids for Sample:	NA	Spiked ID:	Q3687-01MS	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	11800		10700		1500	73		P

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	Q3690
contract:	TETR06			lab code:	ACE
matrix:	Water	sample id:	Q3687-01	client id:	N43502MSD
Percent Solids for Sample:	NA	Spiked ID:	Q3687-01MSD	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	12300		10700		1500	109		P

Metals
- 5b -

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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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.....

A
B
C
D
E
F
G
H

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3690</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3687-01</u>	Client ID:	<u>N43502DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3687-01DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	10700		10900		2		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3690</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3687-01MS</u>	Client ID:	<u>N43502MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3687-01MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	11800		12300		4		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170663BS Iron	ug/L	1500	1550		103	87 - 115	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

N43502L

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

Lb No.: lb138017

Lab Sample ID : Q3687-01L

SDG No.: Q3690

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Iron	10700	10800	1		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

Contract: TETR06

Lab Code: ACE

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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

Metals

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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

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: PB170663							
PB170663BL	PB170663BL	MB	WATER	11/20/2025	50.0	25.0	
PB170663BS	PB170663BS	LCS	WATER	11/20/2025	50.0	25.0	
Q3687-01DUP	N43502DUP	DUP	WATER	11/20/2025	50.0	25.0	
Q3687-01MS	N43502MS	MS	WATER	11/20/2025	50.0	25.0	
Q3687-01MSD	N43502MSD	MSD	WATER	11/20/2025	50.0	25.0	
Q3690-01	RW8-SP100-20251118	SAM	WATER	11/20/2025	50.0	25.0	
Q3690-02	RW8-SP303-20251118	SAM	WATER	11/20/2025	50.0	25.0	

metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q3690

Instrument id number: _____

Method: _____

Run number: LB138017

Start date: 11/21/2025

End date: 11/21/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1213	Fe
S1	S1	1	1217	Fe
S2	S2	1	1222	Fe
S3	S3	1	1226	Fe
S4	S4	1	1230	Fe
S5	S5	1	1234	Fe
ICV01	ICV01	1	1300	Fe
LLICV01	LLICV01	1	1309	Fe
ICB01	ICB01	1	1313	Fe
CRI01	CRI01	1	1317	Fe
ICSA01	ICSA01	1	1322	Fe
ICSAB01	ICSAB01	1	1326	Fe
CCV01	CCV01	1	1344	Fe
CCB01	CCB01	1	1348	Fe
PB170663BL	PB170663BL	1	1401	Fe
PB170663BS	PB170663BS	1	1405	Fe
CCV02	CCV02	1	1448	Fe
CCB02	CCB02	1	1452	Fe
CCV03	CCV03	1	1538	Fe
CCB03	CCB03	1	1542	Fe
Q3687-01DUP	N43502DUP	1	1551	Fe
Q3687-01L	N43502L	5	1555	Fe
Q3687-01MS	N43502MS	1	1559	Fe
Q3687-01MSD	N43502MSD	1	1603	Fe
Q3690-01	RW8-SP100-20251118	1	1611	Fe
Q3690-02	RW8-SP303-20251118	1	1615	Fe
CCV04	CCV04	1	1628	Fe
CCB04	CCB04	1	1632	Fe
CCV05	CCV05	1	1750	Fe
CCB05	CCB05	1	1755	Fe
CCV06	CCV06	1	1841	Fe
CCB06	CCB06	1	1845	Fe
CCV07	CCV07	1	1931	Fe
CCB07	CCB07	1	1935	Fe