

LAB CHRONICLE

OrderID:	Q2745	OrderDate:	8/1/2025 10:26:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage - CTO WE13 1132341 WR6
Contact:	Ernie Wu	Location:	O41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2745-01	RW8-SP100-2025073 1	Water			07/31/25			08/01/25
			Metals Group4	6010D		08/04/25	08/04/25	
Q2745-02	RW8-SP303-2025073 1	Water			07/31/25			08/01/25
			Metals Group4	6010D		08/04/25	08/04/25	



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

SDG No.:	Q2745	Order ID:	Q2745
Client:	Tetra Tech NUS, Inc.	Project ID:	NWIRP Bethpage - CTO WE13 1132341 W

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW8-SP303-20250731								
Q2745-02	RW8-SP303-20250731	Water	Iron	42.8	J	11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/31/25
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	08/01/25
Client Sample ID:	RW8-SP100-20250731	SDG No.:	Q2745
Lab Sample ID:	Q2745-01	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	40.0	UN	1	11.7	40.0	50.0	ug/L	08/04/25 10:10	08/04/25 17:08	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/31/25
Project:	NWIRP Bethpage - CTO WE13 1132341 WR6	Date Received:	08/01/25
Client Sample ID:	RW8-SP303-20250731	SDG No.:	Q2745
Lab Sample ID:	Q2745-02	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	42.8	JN	1	11.7	40.0	50.0	ug/L	08/04/25 10:10	08/04/25 17:12	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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	3980	4000	100	90 - 110	P	08/04/2025	11:41	LB136697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	102	100	102	80 - 120	P	08/04/2025	11:45	LB136697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	4860	5000	97	90 - 110	P	08/04/2025	12:25	LB136697
CCV02	Iron	4930	5000	99	90 - 110	P	08/04/2025	13:37	LB136697
CCV03	Iron	4990	5000	100	90 - 110	P	08/04/2025	14:43	LB136697
CCV04	Iron	4900	5000	98	90 - 110	P	08/04/2025	15:48	LB136697
CCV05	Iron	5040	5000	101	90 - 110	P	08/04/2025	16:51	LB136697
CCV06	Iron	5210	5000	104	90 - 110	P	08/04/2025	17:41	LB136697
CCV07	Iron	5150	5000	103	90 - 110	P	08/04/2025	17:58	LB136697

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	4000	4000	100	90 - 110	P	08/06/2025	11:55	LB136729

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	108	100	108	80 - 120	P	08/06/2025	12:09	LB136729

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	4990	5000	100	90 - 110	P	08/06/2025	12:47	LB136729
CCV02	Iron	4940	5000	99	90 - 110	P	08/06/2025	13:37	LB136729
CCV03	Iron	5270	5000	106	90 - 110	P	08/06/2025	14:49	LB136729



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	111	100	111	65 - 135	P	08/04/2025	11:57	LB136697
CRI01	Iron	97.9	100	98	65 - 135	P	08/06/2025	12:26	LB136729



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	08/04/2025	11:52	LB136697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	08/04/2025	12:29	LB136697
CCB02	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	13:41	LB136697
CCB03	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	14:54	LB136697
CCB04	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	15:53	LB136697
CCB05	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	16:55	LB136697
CCB06	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	17:45	LB136697
CCB07	Iron	23.4	+/-50	U	80.0	100	P	08/04/2025	18:02	LB136697

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	08/06/2025	12:21	LB136729

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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	08/06/2025	12:52	LB136729
CCB02	Iron	23.4	+/-50	U	80.0	100	P	08/06/2025	13:52	LB136729
CCB03	Iron	23.4	+/-50	U	80.0	100	P	08/06/2025	14:53	LB136729

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169098BL		WATER		Batch Number:		PB169098		Prep Date:	08/04/2025	
	Iron	11.7	<25	U	40.0	50.0	P	08/06/2025	12:57	LB136729

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>Tetra Tech NUS, Inc.</u>	SDG No.: <u>Q2745</u>
Contract: <u>TETR06</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	98400	101000	97	85600	116500	08/04/2025	12:01	LB136697
ICSAB01	Iron	101000	99300	102	84400	114500	08/04/2025	12:05	LB136697
ICSA01	Iron	102000	101000	101	85600	116500	08/06/2025	12:31	LB136729
ICSAB01	Iron	101000	99300	102	84400	114500	08/06/2025	12:35	LB136729



METAL QC DATA



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metals
- 5a -
MATRIX SPIKE SUMMARY

client:

Tetra Tech NUS, Inc.

contract:

TETR06

matrix:

Water

level:

low

sdg no.:

Q2745

lab code:

ACE

sample id:

Q2756-01

client id:

71725MS

Percent Solids for Sample:

NA

Spiked ID:

Q2756-01MS

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	6750		5880		1500	58	N	P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	Q2745
contract:	TETR06			lab code:	ACE
matrix:	Water	sample id:	Q2756-01	client id:	71725MSD
Percent Solids for Sample:	NA	Spiked ID:	Q2756-01MSD	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	7070		5880		1500	79	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Matrix: Water

Sample ID: Q2756-01

SDG No.: Q2745

Lab Code: ACE

Client ID: 71725A

Level: LOW

Spiked ID: Q2756-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Iron	ug/L	87 - 115	7270		5880		1500	93		P

A
B
C
D
E
F
G
H

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2745</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2756-01</u>	Client ID:	<u>71725DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2756-01DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	5880		5820		1		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2745</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2756-01MS</u>	Client ID:	<u>71725MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2756-01MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	6750		7070		5		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169098BS Iron	ug/L	1500	1550		103	87 - 115	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

71725L

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

Lb No.: lb136729

Lab Sample ID : Q2756-01L

SDG No.: Q2745

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	5880	5280	10		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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:				
		Al	Ca	Fe	Mg	Ag
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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:				
		Na	Ni	Pb	Sb	Se
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2745

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.: Q2745

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: PB169098							
PB169098BL	PB169098BL	MB	WATER	08/04/2025	50.0	25.0	
PB169098BS	PB169098BS	LCS	WATER	08/04/2025	50.0	25.0	
Q2745-01	RW8-SP100-20250731	SAM	WATER	08/04/2025	50.0	25.0	
Q2745-02	RW8-SP303-20250731	SAM	WATER	08/04/2025	50.0	25.0	
Q2756-01DUP	71725DUP	DUP	WATER	08/04/2025	50.0	25.0	
Q2756-01MS	71725MS	MS	WATER	08/04/2025	50.0	25.0	
Q2756-01MSD	71725MSD	MSD	WATER	08/04/2025	50.0	25.0	

metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2745

Instrument id number: _____

Method: _____

Run number: LB136697

Start date: 08/04/2025

End date: 08/04/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1115	Fe
S1	S1	1	1120	Fe
S2	S2	1	1124	Fe
S3	S3	1	1128	Fe
S4	S4	1	1132	Fe
S5	S5	1	1136	Fe
ICV01	ICV01	1	1141	Fe
LLICV01	LLICV01	1	1145	Fe
ICB01	ICB01	1	1152	Fe
CRI01	CRI01	1	1157	Fe
ICSA01	ICSA01	1	1201	Fe
ICSAB01	ICSAB01	1	1205	Fe
CCV01	CCV01	1	1225	Fe
CCB01	CCB01	1	1229	Fe
CCV02	CCV02	1	1337	Fe
CCB02	CCB02	1	1341	Fe
CCV03	CCV03	1	1443	Fe
CCB03	CCB03	1	1454	Fe
CCV04	CCV04	1	1548	Fe
CCB04	CCB04	1	1553	Fe
CCV05	CCV05	1	1651	Fe
CCB05	CCB05	1	1655	Fe
Q2745-01	RW8-SP100-20250731	1	1708	Fe
Q2745-02	RW8-SP303-20250731	1	1712	Fe
CCV06	CCV06	1	1741	Fe
CCB06	CCB06	1	1745	Fe
CCV07	CCV07	1	1758	Fe
CCB07	CCB07	1	1802	Fe

metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2745

Instrument id number: _____

Method: _____

Run number: LB136729

Start date: 08/06/2025

End date: 08/06/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1130	Fe
S1	S1	1	1135	Fe
S2	S2	1	1139	Fe
S3	S3	1	1143	Fe
S4	S4	1	1147	Fe
S5	S5	1	1151	Fe
ICV01	ICV01	1	1155	Fe
LLICV01	LLICV01	1	1209	Fe
ICB01	ICB01	1	1221	Fe
CRI01	CRI01	1	1226	Fe
ICSA01	ICSA01	1	1231	Fe
ICSAB01	ICSAB01	1	1235	Fe
CCV01	CCV01	1	1247	Fe
CCB01	CCB01	1	1252	Fe
PB169098BL	PB169098BL	1	1257	Fe
PB169098BS	PB169098BS	1	1301	Fe
Q2756-01DUP	71725DUP	1	1314	Fe
Q2756-01L	71725L	5	1318	Fe
Q2756-01MS	71725MS	1	1322	Fe
Q2756-01MSD	71725MSD	1	1329	Fe
Q2756-01A	71725A	1	1333	Fe
CCV02	CCV02	1	1337	Fe
CCB02	CCB02	1	1352	Fe
CCV03	CCV03	1	1449	Fe
CCB03	CCB03	1	1453	Fe