



LAB CHRONICLE

OrderID:	Q3086	OrderDate:	9/12/2025 10:59:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3086-01	RW8-SP100-20250911	Water			09/11/25			09/12/25
			Metals Group4	6010D		09/15/25	09/16/25	
Q3086-02	RW8-SP303-20250911	Water			09/11/25			09/12/25
			Metals Group4	6010D		09/15/25	09/16/25	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.:	Q3086	Order ID:	Q3086
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 : Q3086-01	RW8-SP100-20250911 RW8-SP100-20250911	Water	Iron	662		11.7	40.0	50.0	ug/L
Client ID : Q3086-02	RW8-SP303-20250911 RW8-SP303-20250911	Water	Iron	30.3	J	11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/11/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/12/25
Client Sample ID:	RW8-SP100-20250911	SDG No.:	Q3086
Lab Sample ID:	Q3086-01	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	662		1	11.7	40.0	50.0	ug/L	09/15/25 10:20	09/16/25 12:36	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:	09/11/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/12/25
Client Sample ID:	RW8-SP303-20250911	SDG No.:	Q3086
Lab Sample ID:	Q3086-02	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	30.3	J	1	11.7	40.0	50.0	ug/L	09/15/25 10:20	09/16/25 12:40	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.: Q3086

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	4100	4000	103	90 - 110	P	09/16/2025	11:19	LB137209

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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	97.4	100	97	80 - 120	P	09/16/2025	11:29	LB137209

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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	09/16/2025	11:59	LB137209
CCV02	Iron	4880	5000	98	90 - 110	P	09/16/2025	13:39	LB137209
CCV03	Iron	4940	5000	99	90 - 110	P	09/16/2025	14:40	LB137209
CCV04	Iron	4850	5000	97	90 - 110	P	09/16/2025	15:32	LB137209
CCV05	Iron	5020	5000	100	90 - 110	P	09/16/2025	16:27	LB137209
CCV06	Iron	4950	5000	99	90 - 110	P	09/16/2025	16:48	LB137209



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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	98.2	100	98	65 - 135	P	09/16/2025	11:38	LB137209



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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	09/16/2025	11:33	LB137209

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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	09/16/2025	12:05	LB137209
CCB02	Iron	23.4	+/-50	U	80.0	100	P	09/16/2025	13:43	LB137209
CCB03	Iron	23.4	+/-50	U	80.0	100	P	09/16/2025	14:47	LB137209
CCB04	Iron	23.4	+/-50	U	80.0	100	P	09/16/2025	15:36	LB137209
CCB05	Iron	23.4	+/-50	U	80.0	100	P	09/16/2025	16:31	LB137209
CCB06	Iron	23.4	+/-50	U	80.0	100	P	09/16/2025	16:53	LB137209

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169686BL		WATER		Batch Number:		PB169686		Prep Date:	09/15/2025	
	Iron	11.7	<25	U	40.0	50.0	P	09/16/2025	12:23	LB137209

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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	101000	101000	100	85600	116500	09/16/2025	11:42	LB137209
ICSAB01	Iron	99000	99300	100	84400	114500	09/16/2025	11:46	LB137209



METAL QC DATA



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE SUMMARY

client:

Tetra Tech NUS, Inc.

level:

low

sdg no.:

Q3086

contract:

TETR06

lab code:

ACE

matrix:

Water

sample id:

Q3086-02

client id:

RW8-SP303-20250911MS

Percent Solids for Sample:

NA

Spiked ID:

Q3086-02MS

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	1380		30.3	J	1500	90		P



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:

Tetra Tech NUS, Inc.

contract:

TETR06

matrix:

Water

level:

low

sample id:

Q3086-02

sdg no.:

Q3086

lab code:

ACE

client id:

RW8-SP303-20250911MSD

Percent Solids for Sample:

NA

Spiked ID:

Q3086-02MSD

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	1370		30.3	J	1500	90		P



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Metals
- 5b -

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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
---------	-------	------------------------	---	------------------	---	----------------	---------------	------	---

.....

- 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>Q3086</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3086-02</u>	Client ID:	<u>RW8-SP303-20250911DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3086-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	30.3	J	32.3	J	6		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q3086</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3086-02MS</u>	Client ID:	<u>RW8-SP303-20250911MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3086-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1380		1370		1		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169686BS Iron	ug/L	1500	1470		98	87 - 115	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250911L

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

Lb No.: lb137209

Lab Sample ID : Q3086-02L

SDG No.: Q3086

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
Iron	30.3	J	250	U	100.0		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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.: Q3086

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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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.: Q3086

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

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3086

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: PB169686							
PB169686BL	PB169686BL	MB	WATER	09/15/2025	50.0	25.0	
PB169686BS	PB169686BS	LCS	WATER	09/15/2025	50.0	25.0	
Q3086-01	RW8-SP100-20250911	SAM	WATER	09/15/2025	50.0	25.0	
Q3086-02	RW8-SP303-20250911	SAM	WATER	09/15/2025	50.0	25.0	
Q3086-02DUP	RW8-SP303-20250911DUP	DUP	WATER	09/15/2025	50.0	25.0	
Q3086-02MS	RW8-SP303-20250911MS	MS	WATER	09/15/2025	50.0	25.0	
Q3086-02MSD	RW8-SP303-20250911MSD	MSD	WATER	09/15/2025	50.0	25.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q3086

Instrument id number: _____

Method: _____

Run number: LB137209

Start date: 09/16/2025

End date: 09/16/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1053	Fe
S1	S1	1	1058	Fe
S2	S2	1	1102	Fe
S3	S3	1	1106	Fe
S4	S4	1	1110	Fe
S5	S5	1	1115	Fe
ICV01	ICV01	1	1119	Fe
LLICV01	LLICV01	1	1129	Fe
ICB01	ICB01	1	1133	Fe
CRI01	CRI01	1	1138	Fe
ICSA01	ICSA01	1	1142	Fe
ICSAB01	ICSAB01	1	1146	Fe
CCV01	CCV01	1	1159	Fe
CCB01	CCB01	1	1205	Fe
PB169686BL	PB169686BL	1	1223	Fe
PB169686BS	PB169686BS	1	1227	Fe
Q3086-01	RW8-SP100-20250911	1	1236	Fe
Q3086-02	RW8-SP303-20250911	1	1240	Fe
Q3086-02DUP	RW8-SP303-20250911DUP	1	1250	Fe
Q3086-02L	RW8-SP303-20250911L	5	1254	Fe
Q3086-02MS	RW8-SP303-20250911MS	1	1305	Fe
CCV02	CCV02	1	1339	Fe
CCB02	CCB02	1	1343	Fe
Q3086-02MSD	RW8-SP303-20250911MSD	1	1347	Fe
CCV03	CCV03	1	1440	Fe
CCB03	CCB03	1	1447	Fe
CCV04	CCV04	1	1532	Fe
CCB04	CCB04	1	1536	Fe
CCV05	CCV05	1	1627	Fe
CCB05	CCB05	1	1631	Fe
CCV06	CCV06	1	1648	Fe
CCB06	CCB06	1	1653	Fe