

ANALYTICAL RESULTS SUMMARY

GENERAL CHEMISTRY
METALS
SEMI-VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q3690

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3690

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q3690-01
Q3690-02

Client Sample Number

RW8-SP100-20251118
RW8-SP303-20251118

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:39 am, Dec 05, 2025

Date: 12/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q3690

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 11/20/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis except for,

PB170712BS [2-Fluorobiphenyl - 113%] and

PB170712BSD [2-Fluorobiphenyl - 107%]. Failed surrogate is not associated with DOD, therefor no further corrective action was taken.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

The Sample RW8-SP100-20251118 has the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.



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Phone: 908 789 8900 Fax: 908 789 8922

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:39 am, Dec 05, 2025



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CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q3690

Test Name: Metals Group4

A. Number of Samples and Date of Receipt:

2 Water samples were received on 11/20/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Metals Group4. This data package contains results for Metals Group4.

C. Analytical Techniques:

The analysis of Metals Group4 was based on method 6010D and digestion based on method 3010 (waters).

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Matrix Spike analysis met criteria for all compounds.

The Matrix Spike Duplicate analysis met criteria for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

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APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:39 am, Dec 05, 2025

Signature_____



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CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q3690

Test Name: TDS,TSS

A. Number of Samples and Date of Receipt:

2 Water samples were received on 11/20/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: TDS,TSS. This data package contains results for TDS,TSS.

C. Analytical Techniques:

The analysis of TDS was based on method SM2540 C and The analysis of TSS was based on method SM2540 D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

APPROVED

Signature _____

By Nimisha Pandya, QA/QC Supervisor at 9:39 am, Dec 05, 2025

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3690

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 12/05/2025

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
			SVOC-SIMGroup1	8270-Modified		11/21/25	12/01/25	
Q3690-02	RW8-SP303-20251118	Water			11/18/25			11/20/25
			SVOC-SIMGroup1	8270-Modified		11/21/25	12/01/25	



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Fax : 908 789 8922

Hit Summary Sheet SW-846

SDG No.: Q3690
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :				0.000					
Total Svoc :					0.00				
Total Concentration:					0.00				



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
Analytical Method:	SW8270ESIM	Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C	Prep Date: 11/21/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.20	U	1	0.070	0.20	0.20	ug/L	12/01/25 23:17	PB170712
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.31			30 - 150		76%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.44			30 - 150		109%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.34			55 - 111		85%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.39			53 - 106		97%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.42			58 - 132		105%	SPK: 0.4		
INTERNAL STANDARDS										
		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	9530								
1146-65-2	Naphthalene-d8	28800								
15067-26-2	Acenaphthene-d10	13400								
1517-22-2	Phenanthrene-d10	20400								
1719-03-5	Chrysene-d12	15900								
1520-96-3	Perylene-d12	16900								

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

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
Analytical Method:	SW8270ESIM	Level: LOW	% Solid:	0
Sample Wt/Vol:	970 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C	Prep Date: 11/21/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.21	U	1	0.070	0.21	0.21	ug/L	12/01/25 23:54	PB170712
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.27			30 - 150		68%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.43			30 - 150		108%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.34			55 - 111		86%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.30			53 - 106		76%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.40			58 - 132		101%	SPK: 0.4		
INTERNAL STANDARDS										
		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	8420								
1146-65-2	Naphthalene-d8	23800								
15067-26-2	Acenaphthene-d10	11100								
1517-22-2	Phenanthrene-d10	18400								
1719-03-5	Chrysene-d12	14700								
1520-96-3	Perylene-d12	15600								

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q3690

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB170712BL	PB170712BL	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.35	88		58	132
PB170712BS	PB170712BS	2-Methylnaphthalene-d10	0.4	0.41	101		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.40	99		55	111
		2-Fluorobiphenyl	0.4	0.45	113	*	53	106
		Terphenyl-d14	0.4	0.36	91		58	132
PB170712BSD	PB170712BSD	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.43	107	*	53	106
		Terphenyl-d14	0.4	0.32	79		58	132
Q3690-01	RW8-SP100-20251118	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
Q3690-02	RW8-SP303-20251118	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.30	76		53	106
		Terphenyl-d14	0.4	0.40	101		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3690

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038232.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB170712BS	1,4-Dioxane	0.4	0.33	ug/L	83				70	130	

A
B
C
D
E
F
G

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3690

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038238.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB170712BSD	1,4-Dioxane	0.4	0.30	ug/L	75	10			70	130	20

A
B
C
D
E
F
G

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB170712BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3690

Lab File ID: BN038231.D

Lab Sample ID: PB170712BL

Instrument ID: BNA_N

Date Extracted: 11/21/2025

Matrix: (soil/water) Water

Date Analyzed: 12/01/2025

Level: (low/med) LOW

Time Analyzed: 18:28

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170712BS	PB170712BS	BN038232.D	12/01/2025
PB170712BSD	PB170712BSD	BN038238.D	12/01/2025
RW8-SP100-20251118	Q3690-01	BN038239.D	12/01/2025
RW8-SP303-20251118	Q3690-02	BN038240.D	12/01/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038211.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3690
DFTPP Injection Date: 11/26/2025
DFTPP Injection Time: 19:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	78.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (20.3) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN038212.D	11/26/2025	20:35
SSTDICC0.2	SSTDICC0.2	BN038213.D	11/26/2025	21:12
SSTDICCC0.4	SSTDICCC0.4	BN038214.D	11/26/2025	21:48
SSTDICC0.8	SSTDICC0.8	BN038215.D	11/26/2025	22:25
SSTDICC1.6	SSTDICC1.6	BN038216.D	11/26/2025	23:01
SSTDICC3.2	SSTDICC3.2	BN038217.D	11/26/2025	23:37
SSTDICC5.0	SSTDICC5.0	BN038218.D	11/27/2025	00:13

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038229.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3690
DFTPP Injection Date: 12/01/2025
DFTPP Injection Time: 17:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	87.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.5 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN038230.D	12/01/2025	17:51
PB170712BL	PB170712BL	BN038231.D	12/01/2025	18:28
PB170712BS	PB170712BS	BN038232.D	12/01/2025	19:04
PB170712BSD	PB170712BSD	BN038238.D	12/01/2025	22:42
RW8-SP100-20251118	Q3690-01	BN038239.D	12/01/2025	23:17
RW8-SP303-20251118	Q3690-02	BN038240.D	12/01/2025	23:54
SSTDCCC0.4EC	SSTDCCC0.4	BN038248.D	12/02/2025	04:44

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3690

Client ID : SSTDCCC0.4

Date Analyzed: 12/01/2025

Lab File ID: BN038230.D

Time Analyzed: 17:51

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	8054	7.768	24560	10.56	13292	14.43
UPPER LIMIT	16108	8.268	49120	11.062	26584	14.93
LOWER LIMIT	4027	7.268	12280	10.062	6646	13.93
EPA SAMPLE NO.						
01 PB170712BS	7901	7.77	22379	10.56	10358	14.43
02 PB170712BL	8256	7.77	22952	10.57	10779	14.43
03 PB170712BSD	9081	7.77	25072	10.56	10824	14.43
04 RW8-SP100-20251118	9532	7.77	28839	10.56	13442	14.42
05 RW8-SP303-20251118	8417	7.77	23771	10.56	11088	14.43

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3690

Client ID: SSTDCCC0.4

Date Analyzed: 12/01/2025

Lab File ID: BN038230.D

Time Analyzed: 17:51

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	21033	17.173	11703	21.366	11756	23.674
UPPER LIMIT	42066	17.673	23406	21.866	23512	24.174
LOWER LIMIT	10516.5	16.673	5851.5	20.866	5878	23.174
EPA SAMPLE NO.						
01 PB170712BS	14739	17.19	10142	21.37	10375	23.67
02 PB170712BL	14873	17.19	10479	21.38	10853	23.68
03 PB170712BSD	16101	17.17	14003	21.37	15858	23.67
04 RW8-SP100-20251118	20421	17.17	15899	21.37	16933	23.67
05 RW8-SP303-20251118	18387	17.17	14715	21.37	15551	23.67

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB170712BL		SDG No.:	Q3690
Lab Sample ID:	PB170712BL		Matrix:	Water
Analytical Method:	SW8270ESIM	Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C	Prep Date: 11/21/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.20	U	1	0.070	0.20	0.20	ug/L	12/01/25 18:28	PB170712
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.32			30 - 150		79%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.36			30 - 150		91%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.36			55 - 111		90%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.39			53 - 106		98%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.35			58 - 132		88%	SPK: 0.4		
INTERNAL STANDARDS										
		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	8260								
1146-65-2	Naphthalene-d8	23000								
15067-26-2	Acenaphthene-d10	10800								
1517-22-2	Phenanthrene-d10	14900								
1719-03-5	Chrysene-d12	10500								
1520-96-3	Perylene-d12	10900								

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB170712BS		SDG No.:	Q3690
Lab Sample ID:	PB170712BS		Matrix:	Water
Analytical Method:	SW8270ESIM	Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C	Prep Date: 11/21/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.33		1	0.070	0.20	0.20	ug/L	12/01/25 19:04	PB170712
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.41			30 - 150		101%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.36			30 - 150		90%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.40			55 - 111		99%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.45	*		53 - 106		113%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.36			58 - 132		91%	SPK: 0.4		
INTERNAL STANDARDS										
		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	7900								
1146-65-2	Naphthalene-d8	22400								
15067-26-2	Acenaphthene-d10	10400								
1517-22-2	Phenanthrene-d10	14700								
1719-03-5	Chrysene-d12	10100								
1520-96-3	Perylene-d12	10400								

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB170712BSD		SDG No.:	Q3690
Lab Sample ID:	PB170712BSD		Matrix:	Water
Analytical Method:	SW8270ESIM	Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C	Prep Date: 11/21/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.30		1	0.070	0.20	0.20	ug/L	12/01/25 22:42	PB170712
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.35			30 - 150		86%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.39			30 - 150		97%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.40			55 - 111		100%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.43	*		53 - 106		107%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.32			58 - 132		79%	SPK: 0.4		
INTERNAL STANDARDS		Area Count								
3855-82-1	1,4-Dichlorobenzene-d4	9080								
1146-65-2	Naphthalene-d8	25100								
15067-26-2	Acenaphthene-d10	10800								
1517-22-2	Phenanthrene-d10	16100								
1719-03-5	Chrysene-d12	14000								
1520-96-3	Perylene-d12	15900								

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN112725.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Nov 28 21:04:10 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN038212.D 0.2 =BN038213.D 0.4 =BN038214.D 0.8 =BN038215.D 1.6 =BN038216.D 3.2 =BN038217.D 5 =BN038218.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.484	0.448	0.396	0.423	0.399	0.378	0.421	9.29	
3)	n-Nitrosodimet...	0.488	0.543	0.513	0.536	0.528	0.510	0.520	3.87	
4) S	2-Fluorophenol	1.008	0.930	0.992	0.881	0.925	0.915	0.892	0.935	5.14
5) S	Phenol-d6	1.180	1.103	1.215	1.099	1.187	1.203	1.191	1.168	4.05
6)	bis(2-Chloroet...	1.066	1.118	1.188	1.086	1.152	1.130	1.088	1.118	3.79
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.370	0.314	0.310	0.304	0.321	0.309	0.311	0.320	7.07
9)	Naphthalene	1.152	1.102	1.153	1.075	1.118	1.093	1.082	1.111	2.87
10)	Hexachlorobuta...	0.203	0.192	0.200	0.182	0.188	0.180	0.177	0.189	5.29
11) SURR	2-Methylnaphth...	0.535	0.548	0.588	0.558	0.584	0.584	0.579	0.568	3.70
12)	2-Methylnaphth...	0.696	0.697	0.760	0.718	0.754	0.750	0.741	0.731	3.68
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.106	0.100	0.123	0.122	0.139	0.165	0.126	18.76	
15) S	2-Fluorobiphenyl	1.620	1.549	1.590	1.546	1.578	1.474	1.459	1.545	3.85
16)	Acenaphthylene	1.756	1.685	1.801	1.702	1.830	1.866	1.880	1.789	4.31
17)	Acenaphthene	1.244	1.208	1.292	1.198	1.263	1.262	1.261	1.247	2.66
18)	Fluorene	1.544	1.442	1.650	1.571	1.680	1.708	1.703	1.614	6.13
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.021	0.026	0.031	0.044	0.059	0.071	0.042	46.82	
21)	4-Bromophenyl-...	0.268	0.268	0.285	0.268	0.287	0.284	0.280	0.277	3.19
22)	Hexachlorobenzene	0.377	0.366	0.358	0.320	0.337	0.319	0.307	0.341	7.87
23)	Atrazine	0.165	0.157	0.175	0.164	0.181	0.198	0.200	0.177	9.46
24)	Pentachlorophenol	0.090	0.084	0.080	0.096	0.117	0.093	15.54		
25)	Phenanthrene	1.247	1.207	1.311	1.202	1.270	1.293	1.259	1.256	3.24
26)	Anthracene	0.996	0.998	1.068	1.016	1.100	1.156	1.166	1.071	6.73
27) SURR	Fluoranthene-d10	0.853	0.845	0.890	0.817	0.864	0.906	0.900	0.868	3.76
28)	Fluoranthene	1.174	1.147	1.227	1.146	1.230	1.281	1.266	1.210	4.55
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	2.066	1.804	2.087	1.972	1.973	2.077	2.006	1.998	4.91
31) S	Terphenyl-d14	0.903	0.847	0.962	0.906	0.927	0.972	0.949	0.924	4.65
32)	Benzo(a)anthra...	1.321	1.271	1.368	1.320	1.373	1.421	1.409	1.355	3.94
33)	Chrysene	1.742	1.639	1.661	1.517	1.597	1.541	1.494	1.599	5.53
34)	Bis(2-ethylhex...	0.780	0.801	0.700	0.682	0.740	0.746	0.742	6.12	
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN112725.M

36)	Indeno(1,2,3-c...	1.747	1.715	1.875	1.736	1.962	1.963	1.960	1.851	6.24
37)	Benzo(b)fluora...	1.563	1.555	1.703	1.586	1.675	1.721	1.690	1.642	4.32
38)	Benzo(k)fluora...	1.627	1.639	1.758	1.658	1.749	1.776	1.742	1.707	3.69
39) C	Benzo(a)pyrene	1.414	1.284	1.386	1.316	1.403	1.414	1.417	1.376	3.93
40)	Dibenzo(a,h)an...	1.264	1.234	1.379	1.349	1.512	1.541	1.531	1.401	9.14
41)	Benzo(g,h,i)pe...	1.722	1.586	1.721	1.617	1.720	1.687	1.670	1.674	3.25

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q3690
 Instrument ID: BNA_N Calibration Date/Time: 12/01/2025 17:51
 Lab File ID: BN038230.D Init. Calib. Date(s): 11/26/2025 11/27/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 20:35 00:13
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.568	0.591		4.0	20.0
Fluoranthene-d10	0.868	0.851		-2.0	20.0
2-Fluorophenol	0.935	0.944		1.0	20.0
Phenol-d6	1.168	1.204		3.1	20.0
Nitrobenzene-d5	0.320	0.317		-0.9	20.0
2-Fluorobiphenyl	1.545	1.656		7.2	20.0
2,4,6-Tribromophenol	0.126	0.139		10.3	20.0
Terphenyl-d14	0.924	0.961		4.0	20.0
1,4-Dioxane	0.421	0.451		7.1	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q3690
 Instrument ID: BNA_N Calibration Date/Time: 12/02/2025 04:44
 Lab File ID: BN038248.D Init. Calib. Date(s): 11/26/2025 11/27/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 20:35 00:13
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.568	0.562		-1.1	50.0
Fluoranthene-d10	0.868	0.924		6.5	50.0
2-Fluorophenol	0.935	1.019		9.0	50.0
Phenol-d6	1.168	1.291		10.5	50.0
Nitrobenzene-d5	0.320	0.323		0.9	50.0
2-Fluorobiphenyl	1.545	1.663		7.6	50.0
2,4,6-Tribromophenol	0.126	0.130		3.2	50.0
Terphenyl-d14	0.924	0.862		-6.7	50.0
1,4-Dioxane	0.421	0.416		-1.2	50.0

All other compounds must meet a minimum RRF of 0.010.

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,
Fax : 908 789 8922

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 : Q3690-01	RW8-SP100-20251118 RW8-SP100-20251118	Water	Iron	718		11.7	40.0	50.0	ug/L
Client ID : Q3690-02	RW8-SP303-20251118 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



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.: 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



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.: 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
- 3b -
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
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>Tetra Tech NUS, Inc.</u>	SDG No.: <u>Q3690</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	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:	<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>N43502MS</u>
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
- 5a -
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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Metals

- 6 -

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

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 6 -

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

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	SDG No.:	<u>Q3690</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>ACE</u>

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

Metals
-9 -
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

- 11 -

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

- 11 -

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

- 11 -

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

- 11 -

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:				
		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.: 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:				
		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.: 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
- 14 -
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

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 13:05			11/20/25
			TDS	SM2540 C			11/20/25 13:30	
			TSS	SM2540 D			11/21/25 15:30	
Q3690-02	RW8-SP303-20251118	WATER			11/18/25 13:13			11/20/25
			TDS	SM2540 C			11/20/25 13:30	
			TSS	SM2540 D			11/21/25 15:30	



SAMPLE DATA

Report of Analysis

Client: Tetra Tech NUS, Inc.
Project: NWIRP Bethpage 112G08005-WE13
Client Sample ID: RW8-SP100-20251118
Lab Sample ID: Q3690-01

Date Collected: 11/18/25 13:05
Date Received: 11/20/25
SDG No.: Q3690
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	2.00	J	1	1.00	10.0	10.0	mg/L		11/20/25 13:30	SM 2540 C-20
TSS	4.00	U	1	1.00	4.00	4.00	mg/L		11/21/25 15:30	SM 2540 D-20

Comments: _____

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
H = Sample Analysis Out Of Hold Time

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.
Project: NWIRP Bethpage 112G08005-WE13
Client Sample ID: RW8-SP303-20251118
Lab Sample ID: Q3690-02

Date Collected: 11/18/25 13:13
Date Received: 11/20/25
SDG No.: Q3690
Matrix: WATER
% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	1.00	J	1	1.00	10.0	10.0	mg/L		11/20/25 13:30	SM 2540 C-20
TSS	4.00	U	1	1.00	4.00	4.00	mg/L		11/21/25 15:30	SM 2540 D-20

Comments:

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
H = Sample Analysis Out Of Hold Time

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



QC RESULT SUMMARY

Preparation Blank Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q3690

Project: NWIRP Bethpage 112G08005-WE13

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137987BL							
TDS	mg/L	1	5.0000	J	1.0	10	11/20/2025
Sample ID: LB138018BL							
TSS	mg/L	1	2.0000	J	1	4	11/21/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q3690
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q3676-04
Client ID:	OUTFALL-DSN-002DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TSS	mg/L	+/-5	2890		2890		1	0.05		11/21/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q3690
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q3690-01
Client ID:	RW8-SP100-20251118DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
TDS	mg/L	+/-5	2.00	J	2.00	J	1	0		11/20/2025

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q3690
Project:	NWIRP Bethpage 112G08005-WE13	Run No.:	LB137987

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137987BS							
TDS	mg/L	100	98.0		98	1	90-110	11/20/2025

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q3690
Project:	NWIRP Bethpage 112G08005-WE13	Run No.:	LB138018

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB138018BS							
TSS	mg/L	550	591		107	1	90-110	11/21/2025



SHIPPING DOCUMENTS



CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 Fax: (908) 78-8922

www.chemtech.net

Chemtech Project Number:

Q 3690

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Ln, Suite 300

CITY: Virginia Beach STATE: VA ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757-466-4901

FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage

PROJECT #: 112G08005-WE13 LOCATION: RW8

PROJECT MANAGER: Ernie Wu

E-MAIL: ernie.wu@tetratech.com

PHONE: 757-466-4901

FAX: 757-461-4148

BILLING INFORMATION

BILL TO:

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

ANALYSIS

1,4-Dioxane SW846 8270

SMA

Iron, Total

TSS

TDS

PRESERVATIVES

COMMENTS

<-- Specify Preservatives

A-HCl B-HNO3

C-H2SO4 D-NaOH

E-ICE F-Other

CHEMTECH
SAMPLE
IDPROJECT
SAMPLE IDENTIFICATIONSAMPLE
MATRIXSAMPLE
TYPESAMPLE
COLLECTION

COMP

GRAB

DATE

TIME

of Bottles

B

1

2

3

4

5

6

7

8

9

1.

RW8-SP100-20251118

GW

X

11/18/25

13:05

4

X

X

X

X

2.

RW8-SP303-20251118

GW

X

11/18/25

13:13

4

X

X

X

X

3.

4.

5.

6.

7.

8.

9.

10.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

1.

11/19/25/1360

1.

RELINQUISHED BY

DATE/TIME

RECEIVED BY

2. Fed Ex

11-20-25

2.

RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

3.

3.

Conditions of bottles or coolers at receipt:

☐ Compliant☐ Non Compliant☐ Cooler Temp 2.3°C

MeOH extraction requires an additional 4oz. Jar for percent solid

☐ Ice in Cooler?: Y

Comments:

Page of SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ OvernightCHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete

☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312