

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 : Q3237

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3237

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q3237-01
Q3237-02

Client Sample Number

RW8-SP100-20250926
RW8-SP303-20250926

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 : _____

Date: 10/11/2025

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 # Q3237

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 09/29/2025.

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 PB169939BS [2-Fluorobiphenyl - 112%], PB169939BSD [Terphenyl-d14 - 133%], RW8-SP100-20250926 [Terphenyl-d14 - 137%] and RW8-SP303-20250926 [Terphenyl-d14 - 171%], The failure surrogates not associated with the client parameters list, therefore no 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 File ID BN038041.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken..

The Tuning criteria met requirements.

E. Additional Comments:

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

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

The temperature of the samples at the time of receipt was 16.3°C.

The not QT review data is reported in the Miscellaneous.

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_____



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

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q3237

Test Name: Metals Group4

A. Number of Samples and Date of Receipt:

2 Water samples were received on 09/29/2025.

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).

The temperature of the samples at the time of receipt was 16.3°C.

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_____



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CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q3237

Test Name: TDS,TSS

A. Number of Samples and Date of Receipt:

2 Water samples were received on 09/29/2025.

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).

The temperature of the samples at the time of receipt was 16.3°C.

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_____

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 #: Q3237

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: 10/11/2025

LAB CHRONICLE

OrderID:	Q3237	OrderDate:	9/29/2025 11:28:00 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
Q3237-01	RW8-SP100-2025092 6	Water			09/26/25			09/29/25
			SVOC-SIMGroup1	8270-Modified		10/01/25	10/07/25	
Q3237-02	RW8-SP303-2025092 6	Water			09/26/25			09/29/25
			SVOC-SIMGroup1	8270-Modified		10/01/25	10/07/25	



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

Hit Summary Sheet SW-846

SDG No.: Q3237
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW8-SP100-20250926							
Q3237-01	RW8-SP100-20250926	WATER	1,4-Dioxane	0.080	J	0.07	0.2	0.2 ug/L
			Total Svoc :		0.08			
			Total Concentration:		0.08			



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/29/25
Client Sample ID:	RW8-SP100-20250926	SDG No.:	Q3237
Lab Sample ID:	Q3237-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN038052.D	1	10/01/25 12:31	10/07/25 18:44	PB169939

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.080	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		71%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		137%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7720		7.804			
1146-65-2	Naphthalene-d8	21000		10.605			
15067-26-2	Acenaphthene-d10	9700		14.452			
1517-22-2	Phenanthrene-d10	16700		17.211			
1719-03-5	Chrysene-d12	10200		21.384			
1520-96-3	Perylene-d12	9680		23.709			

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:	09/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/29/25
Client Sample ID:	RW8-SP303-20250926	SDG No.:	Q3237
Lab Sample ID:	Q3237-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN038053.D	1	10/01/25 12:31	10/07/25 19:20	PB169939

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.68	*	58 - 132		171%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7180		7.804			
1146-65-2	Naphthalene-d8	19600		10.605			
15067-26-2	Acenaphthene-d10	9680		14.452			
1517-22-2	Phenanthrene-d10	18600		17.211			
1719-03-5	Chrysene-d12	10300		21.384			
1520-96-3	Perylene-d12	8160		23.703			

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.: Q3237

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169939BL	PB169939BL	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.29	72		30	150
		Nitrobenzene-d5	0.4	0.41	101		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
PB169939BS	PB169939BS	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.28	70		30	150
		Nitrobenzene-d5	0.4	0.43	107		55	111
		2-Fluorobiphenyl	0.4	0.45	112	*	53	106
		Terphenyl-d14	0.4	0.53	132		58	132
PB169939BSD	PB169939BSD	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.30	75		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
Q3237-01	RW8-SP100-20250926	2-Methylnaphthalene-d10	0.4	0.28	71		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.55	137	*	58	132
Q3237-02	RW8-SP303-20250926	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.40	101		55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.68	171	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3237

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038043.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169939BS	1,4-Dioxane	0.4	0.35	ug/L	88				70	130	

A
B
C
D
E
F
G

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3237

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038044.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169939BSD	1,4-Dioxane	0.4	0.35	ug/L	88	0			70	130		20

A
B
C
D
E
F
G

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169939BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3237

Lab File ID: BN038042.D

Lab Sample ID: PB169939BL

Instrument ID: BNA_N

Date Extracted: 10/01/2025

Matrix: (soil/water) Water

Date Analyzed: 10/07/2025

Level: (low/med) LOW

Time Analyzed: 12:39

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169939BS	PB169939BS	BN038043.D	10/07/2025
PB169939BSD	PB169939BSD	BN038044.D	10/07/2025
RW8-SP100-20250926	Q3237-01	BN038052.D	10/07/2025
RW8-SP303-20250926	Q3237-02	BN038053.D	10/07/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037860.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3237
DFTPP Injection Date: 09/23/2025
DFTPP Injection Time: 11:33

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 (0.6) 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	6.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	72.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.8) 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	BN037861.D	09/23/2025	12:13
SSTDICC0.2	SSTDICC0.2	BN037862.D	09/23/2025	12:49
SSTDICCC0.4	SSTDICCC0.4	BN037863.D	09/23/2025	13:25
SSTDICC0.8	SSTDICC0.8	BN037864.D	09/23/2025	14:02
SSTDICC1.6	SSTDICC1.6	BN037865.D	09/23/2025	14:38
SSTDICC3.2	SSTDICC3.2	BN037866.D	09/23/2025	15:15
SSTDICC5.0	SSTDICC5.0	BN037867.D	09/23/2025	15:51

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038040.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3237
DFTPP Injection Date: 10/07/2025
DFTPP Injection Time: 10:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.7) 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	0.2
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	3.4
441	Present, but less than mass 443	76.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.3 (18.9) 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	BN038041.D	10/07/2025	12:03
PB169939BL	PB169939BL	BN038042.D	10/07/2025	12:39
PB169939BS	PB169939BS	BN038043.D	10/07/2025	13:16
PB169939BSD	PB169939BSD	BN038044.D	10/07/2025	13:52
RW8-SP100-20250926	Q3237-01	BN038052.D	10/07/2025	18:44
RW8-SP303-20250926	Q3237-02	BN038053.D	10/07/2025	19:20
SSTDCCC0.4EC	SSTDCCC0.4	BN038058.D	10/07/2025	22:22

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3237

Client ID : SSTDCCC0.4

Date Analyzed: 10/07/2025

Lab File ID: BN038041.D

Time Analyzed: 12:03

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	8417	7.804	24486	10.61	13140	14.46
UPPER LIMIT	16834	8.304	48972	11.105	26280	14.962
LOWER LIMIT	4208.5	7.304	12243	10.105	6570	13.962
EPA SAMPLE NO.						
01 RW8-SP303-20250926	7178	7.80	19583	10.61	9675	14.45
02 PB169939BL	8228	7.80	21819	10.61	10027	14.46
03 PB169939BS	8722	7.80	23265	10.61	10633	14.45
04 PB169939BSD	8275	7.80	22197	10.61	10577	14.45
05 RW8-SP100-20250926	7715	7.80	20976	10.61	9698	14.45

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.: Q3237

Client ID: SSTDCCC0.4

Date Analyzed: 10/07/2025

Lab File ID: BN038041.D

Time Analyzed: 12:03

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	24897	17.21	15245	21.393	11156	23.709
UPPER LIMIT	49794	17.71	30490	21.893	22312	24.209
LOWER LIMIT	12448.5	16.71	7622.5	20.893	5578	23.209
EPA SAMPLE NO.						
01 RW8-SP303-20250926	18567	17.21	10333	21.38	8163	23.70
02 PB169939BL	17932	17.21	9516	21.39	9042	23.71
03 PB169939BS	17722	17.21	8733	21.39	8119	23.71
04 PB169939BSD	20035	17.20	10845	21.39	8550	23.71
05 RW8-SP100-20250926	16691	17.21	10249	21.38	9677	23.71

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:	PB169939BL		SDG No.:	Q3237	
Lab Sample ID:	PB169939BL		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN038042.D	1	10/01/25 12:31	10/07/25 12:39	PB169939

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		72%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8230	7.804				
1146-65-2	Naphthalene-d8	21800	10.605				
15067-26-2	Acenaphthene-d10	10000	14.463				
1517-22-2	Phenanthrene-d10	17900	17.211				
1719-03-5	Chrysene-d12	9520	21.393				
1520-96-3	Perylene-d12	9040	23.709				

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:	PB169939BS		SDG No.:	Q3237	
Lab Sample ID:	PB169939BS		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN038043.D	1	10/01/25 12:31	10/07/25 13:16	PB169939

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		70%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		107%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		112%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8720	7.804				
1146-65-2	Naphthalene-d8	23300	10.605				
15067-26-2	Acenaphthene-d10	10600	14.452				
1517-22-2	Phenanthrene-d10	17700	17.21				
1719-03-5	Chrysene-d12	8730	21.393				
1520-96-3	Perylene-d12	8120	23.709				

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:	PB169939BSD		SDG No.:	Q3237	
Lab Sample ID:	PB169939BSD		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN038044.D	1	10/01/25 12:31	10/07/25 13:52	PB169939

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		75%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8280	7.804				
1146-65-2	Naphthalene-d8	22200	10.605				
15067-26-2	Acenaphthene-d10	10600	14.452				
1517-22-2	Phenanthrene-d10	20000	17.198				
1719-03-5	Chrysene-d12	10800	21.393				
1520-96-3	Perylene-d12	8550	23.709				

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-BN092325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 24 11:00:01 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.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	0.413	0.410	0.403	0.425	0.410	0.376	0.406		4.04
3)	n-Nitrosodimet...	0.541	0.517	0.526	0.561	0.549	0.547	0.540		3.03
4) S	2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.998	0.913	5.84
5) S	Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.353	1.199	7.15
6)	bis(2-Chloroet...	1.133	1.096	1.082	1.066	1.150	1.124	1.143	1.113	2.89
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.338	0.305	6.14
9)	Naphthalene	1.105	1.089	1.048	1.051	1.123	1.137	1.160	1.102	3.84
10)	Hexachlorobuta...	0.198	0.184	0.182	0.183	0.192	0.188	0.188	0.188	2.94
11) SURR2	Methylnaphth...	0.515	0.518	0.499	0.504	0.553	0.587	0.714	0.556	13.74
12)	2-Methylnaphth...	0.678	0.681	0.668	0.682	0.754	0.775	0.802	0.720	7.68
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.148	0.142	0.135	0.139	0.163	0.184		0.152	12.15
15) S	2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.762	1.638	4.36
16)	Acenaphthylene	1.698	1.721	1.663	1.680	1.907	1.951	2.094	1.816	9.23
17)	Acenaphthene	1.262	1.230	1.198	1.208	1.351	1.371	1.437	1.294	7.16
18)	Fluorene	1.455	1.455	1.452	1.466	1.664	1.717	1.748	1.565	8.77
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.041	0.044	0.046	0.058	0.071	0.084	0.057		29.75
21)	4-Bromophenyl-...	0.252	0.247	0.244	0.244	0.272	0.275	0.291	0.261	7.07
22)	Hexachlorobenzene	0.317	0.312	0.305	0.300	0.324	0.323	0.332	0.316	3.53
23)	Atrazine	0.180	0.181	0.172	0.178	0.205	0.224	0.249	0.199	14.70
24)	Pentachlorophenol	0.101	0.092	0.097	0.116	0.136		0.108		16.50
25)	Phenanthrene	1.301	1.271	1.230	1.224	1.358	1.379	1.452	1.316	6.37
26)	Anthracene	1.034	1.035	1.023	1.057	1.209	1.275	1.361	1.142	12.10
27) SURR	Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.370	1.006	17.59
28)	Fluoranthene	1.278	1.315	1.311	1.358	1.555	1.617	1.713	1.450	12.07
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.576	1.600	1.521	1.476	1.607	1.595	1.679	1.579	4.12
31) S	Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.893	0.797	6.34
32)	Benzo(a)anthra...	1.376	1.359	1.294	1.285	1.423	1.483	1.567	1.398	7.27
33)	Chrysene	1.508	1.526	1.462	1.446	1.559	1.512	1.569	1.512	3.03
34)	Bis(2-ethylhex...	0.592	0.487	0.476	0.518	0.569	0.676	0.553		13.57
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN092325.M

36)	Indeno(1,2,3-c...	1.715	1.672	1.658	1.707	1.887	1.996	2.159	1.828	10.52
37)	Benzo(b)fluora...	1.599	1.606	1.641	1.590	1.810	1.848	1.981	1.725	8.95
38)	Benzo(k)fluora...	1.620	1.586	1.597	1.628	1.875	1.917	1.926	1.736	9.26
39) C	Benzo(a)pyrene	1.254	1.296	1.231	1.254	1.413	1.492	1.610	1.364	10.61
40)	Dibenzo(a,h)an...	1.285	1.283	1.303	1.333	1.495	1.587	1.705	1.427	11.87
41)	Benzo(g,h,i)pe...	1.407	1.381	1.404	1.397	1.521	1.613	1.773	1.499	9.85

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q3237
 Instrument ID: BNA_N Calibration Date/Time: 10/07/2025 12:03
 Lab File ID: BN038041.D Init. Calib. Date(s): 09/23/2025 09/23/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.513		-7.7	20.0
Fluoranthene-d10	1.006	0.830		-17.5	20.0
2-Fluorophenol	0.913	0.853		-6.6	20.0
Phenol-d6	1.199	1.108		-7.6	20.0
Nitrobenzene-d5	0.305	0.286		-6.2	20.0
2-Fluorobiphenyl	1.638	1.517		-7.4	20.0
2,4,6-Tribromophenol	0.152	0.120		-21.1	20.0
Terphenyl-d14	0.797	0.916		14.9	20.0
1,4-Dioxane	0.406	0.418		3.0	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.: Q3237
 Instrument ID: BNA_N Calibration Date/Time: 10/07/2025 22:22
 Lab File ID: BN038058.D Init. Calib. Date(s): 09/23/2025 09/23/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.505		-9.2	50.0
Fluoranthene-d10	1.006	0.755		-25.0	50.0
2-Fluorophenol	0.913	0.878		-3.8	50.0
Phenol-d6	1.199	1.126		-6.1	50.0
Nitrobenzene-d5	0.305	0.295		-3.3	50.0
2-Fluorobiphenyl	1.638	1.615		-1.4	50.0
2,4,6-Tribromophenol	0.152	0.112		-26.3	50.0
Terphenyl-d14	0.797	0.862		8.2	50.0
1,4-Dioxane	0.406	0.424		4.4	50.0

All other compounds must meet a minimum RRF of 0.010.

LAB CHRONICLE

OrderID:	Q3237	OrderDate:	9/29/2025 11:28:00 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
Q3237-01	RW8-SP100-2025092 6	Water			09/26/25			09/29/25
			Metals Group4	6010D		09/30/25	10/01/25	
Q3237-02	RW8-SP303-2025092 6	Water			09/26/25			09/29/25
			Metals Group4	6010D		09/30/25	10/01/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q3237

Order ID: Q3237

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 : Q3237-01	RW8-SP100-20250926 RW8-SP100-20250926	Water	Iron	693		11.7	40.0	50.0	ug/L
Client ID : Q3237-02	RW8-SP303-20250926 RW8-SP303-20250926	Water	Iron	51.3		11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/29/25
Client Sample ID:	RW8-SP100-20250926	SDG No.:	Q3237
Lab Sample ID:	Q3237-01	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	693		1	11.7	40.0	50.0	ug/L	09/30/25 10:35	10/01/25 17:54	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:	09/26/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/29/25
Client Sample ID:	RW8-SP303-20250926	SDG No.:	Q3237
Lab Sample ID:	Q3237-02	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	51.3		1	11.7	40.0	50.0	ug/L	09/30/25 10:35	10/01/25 17:58	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.: Q3237

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	3860	4000	96	90 - 110	P	10/01/2025	12:33	LB137389

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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	107	100	107	80 - 120	P	10/01/2025	12:41	LB137389

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.
Contract: TETR06
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3237
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Iron	4920	5000	98	90 - 110	P	10/01/2025	13:10	LB137389
CCV02	Iron	4910	5000	98	90 - 110	P	10/01/2025	14:02	LB137389
CCV03	Iron	4980	5000	100	90 - 110	P	10/01/2025	15:00	LB137389
CCV04	Iron	4960	5000	99	90 - 110	P	10/01/2025	15:51	LB137389
CCV05	Iron	4990	5000	100	90 - 110	P	10/01/2025	16:42	LB137389
CCV06	Iron	4940	5000	99	90 - 110	P	10/01/2025	17:32	LB137389
CCV07	Iron	5110	5000	102	90 - 110	P	10/01/2025	18:28	LB137389
CCV08	Iron	4870	5000	97	90 - 110	P	10/01/2025	19:19	LB137389



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.: Q3237

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	103	100	103	65 - 135	P	10/01/2025	12:49	LB137389



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.: Q3237

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	10/01/2025	12:45	LB137389

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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	10/01/2025	13:14	LB137389
CCB02	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	14:06	LB137389
CCB03	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	15:04	LB137389
CCB04	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	15:55	LB137389
CCB05	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	16:46	LB137389
CCB06	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	17:41	LB137389
CCB07	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	18:32	LB137389
CCB08	Iron	23.4	+/-50	U	80.0	100	P	10/01/2025	19:23	LB137389

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169912BL		WATER		Batch Number:		PB169912		Prep Date:	09/30/2025	
	Iron	11.7	<25	U	40.0	50.0	P	10/01/2025	15:25	LB137389

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>Tetra Tech NUS, Inc.</u>	SDG No.: <u>Q3237</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	97400	101000	96	85600	116500	10/01/2025	12:53	LB137389
ICSAB01	Iron	98100	99300	99	84400	114500	10/01/2025	12:57	LB137389



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. level: low sdg no.: Q3237
contract: TETR06 lab code: ACE
matrix: Water sample id: Q3237-02 client id: RW8-SP303-20250926MS
Percent Solids for Sample: NA Spiked ID: Q3237-02MS 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	1500		51.3		1500	97		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	Q3237
contract:	TETR06			lab code:	ACE
matrix:	Water	sample id:	Q3237-02	client id:	RW8-SP303-20250926MSD
Percent Solids for Sample:	NA	Spiked ID:	Q3237-02MSD	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	1510		51.3		1500	97		P



F

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** Q3237
Contract: TETR06 **Lab Code:** ACE
Matrix: Water **Sample ID:** Q3237-02 **Client ID:** RW8-SP303-20250926DUP
Percent Solids for Sample: NA **Duplicate ID** Q3237-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	51.3		42.1	J	20		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>Q3237</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q3237-02MS</u>	Client ID:	<u>RW8-SP303-20250926MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q3237-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1500		1510		1		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>Q3237</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169912BS Iron	ug/L	1500	1410		94	87 - 115	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250926L

Lab Name: Alliance Contract: TETR06
Lab Code: ACE Lb No.: lb137389 Lab Sample ID : Q3237-02L SDG No.: Q3237
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	51.3	59.4 J	16		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q3237

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.: Q3237

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.: Q3237

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:				
		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.: Q3237

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.: Q3237

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.: Q3237

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: PB169912							
PB169912BL	PB169912BL	MB	WATER	09/30/2025	50.0	25.0	
PB169912BS	PB169912BS	LCS	WATER	09/30/2025	50.0	25.0	
Q3237-01	RW8-SP100-20250926	SAM	WATER	09/30/2025	50.0	25.0	
Q3237-02	RW8-SP303-20250926	SAM	WATER	09/30/2025	50.0	25.0	
Q3237-02DUP	RW8-SP303-20250926DUP	DUP	WATER	09/30/2025	50.0	25.0	
Q3237-02MS	RW8-SP303-20250926MS	MS	WATER	09/30/2025	50.0	25.0	
Q3237-02MSD	RW8-SP303-20250926MSD	MSD	WATER	09/30/2025	50.0	25.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q3237

Instrument id number:

Method:

Run number: LB137389

Start date: 10/01/2025

End date: 10/01/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1208	Fe
S1	S1	1	1212	Fe
S2	S2	1	1217	Fe
S3	S3	1	1221	Fe
S4	S4	1	1225	Fe
S5	S5	1	1229	Fe
ICV01	ICV01	1	1233	Fe
LLICV01	LLICV01	1	1241	Fe
ICB01	ICB01	1	1245	Fe
CRI01	CRI01	1	1249	Fe
ICSA01	ICSA01	1	1253	Fe
ICSAB01	ICSAB01	1	1257	Fe
CCV01	CCV01	1	1310	Fe
CCB01	CCB01	1	1314	Fe
CCV02	CCV02	1	1402	Fe
CCB02	CCB02	1	1406	Fe
CCV03	CCV03	1	1500	Fe
CCB03	CCB03	1	1504	Fe
PB169912BL	PB169912BL	1	1525	Fe
PB169912BS	PB169912BS	1	1530	Fe
CCV04	CCV04	1	1551	Fe
CCB04	CCB04	1	1555	Fe
CCV05	CCV05	1	1642	Fe
CCB05	CCB05	1	1646	Fe
CCV06	CCV06	1	1732	Fe
CCB06	CCB06	1	1741	Fe
Q3237-01	RW8-SP100-20250926	1	1754	Fe
Q3237-02	RW8-SP303-20250926	1	1758	Fe
Q3237-02DUP	RW8-SP303-20250926DUP	1	1803	Fe
Q3237-02L	RW8-SP303-20250926L	5	1807	Fe
Q3237-02MS	RW8-SP303-20250926MS	1	1811	Fe
Q3237-02MSD	RW8-SP303-20250926MSD	1	1815	Fe
CCV07	CCV07	1	1828	Fe
CCB07	CCB07	1	1832	Fe
CCV08	CCV08	1	1919	Fe
CCB08	CCB08	1	1923	Fe

LAB CHRONICLE

OrderID:	Q3237	OrderDate:	9/29/2025 11:28:00 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
Q3237-01	RW8-SP100-2025092 6	WATER			09/26/25 13:05			09/29/25
			TDS	SM2540 C			09/30/25 12:30	
			TSS	SM2540 D			09/30/25 10:00	
Q3237-02	RW8-SP303-2025092 6	WATER			09/26/25 13:13			09/29/25
			TDS	SM2540 C			09/30/25 12:30	
			TSS	SM2540 D			09/30/25 10:00	



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/26/25 13:05
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/29/25
Client Sample ID:	RW8-SP100-20250926	SDG No.:	Q3237
Lab Sample ID:	Q3237-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	24.0		1	1.00	10.0	10.0	mg/L		09/30/25 12:30	SM 2540 C-20
TSS	4.00	U	1	1.00	4.00	4.00	mg/L		09/30/25 10:00	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.	Date Collected:	09/26/25 13:13
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/29/25
Client Sample ID:	RW8-SP303-20250926	SDG No.:	Q3237
Lab Sample ID:	Q3237-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	16.0		1	1.00	10.0	10.0	mg/L		09/30/25 12:30	SM 2540 C-20
TSS	4.00	U	1	1.00	4.00	4.00	mg/L		09/30/25 10:00	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.: Q3237

Project: NWIRP Bethpage 112G08005-WE13

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB137356BL							
TSS	mg/L	1	2.0000	J	1	4	09/30/2025
Sample ID: LB137357BL							
TDS	mg/L	2	5.0000	J	1.0	10	09/30/2025

Duplicate Sample Summary

Client: Tetra Tech NUS, Inc. Project: NWIRP Bethpage 112G08005-WE13 Client ID: SY-3DDDUP	SDG No.: Q3237 Sample ID: Q3202-09 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	33.0		33.0		1	0		09/30/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q3237
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q3202-11
Client ID:	SY-3DDUP	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	42.0		42.2		1	0.48		09/30/2025

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q3237
Project:	NWIRP Bethpage 112G08005-WE13	Run No.:	LB137356

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137356BS							
TSS	mg/L	550	532		97	1	90-110	09/30/2025

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q3237
Project:	NWIRP Bethpage 112G08005-WE13	Run No.:	LB137357

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137357BS							
TDS	mg/L	100	95.0		95	1	90-110	09/30/2025



SHIPPING DOCUMENTS

CHEMTECH**CHAIN OF CUSTODY RECORD**

284 Sheffield Street, Mountainside, NJ 07092

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

www.chemtech.net

Chemtech Project Number:

Q3237

CLIENT INFORMATION

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Ln, Suite 300

CITY: Virginia Beach

ATTENTION: Ernie Wu

PHONE: 757-466-4901

FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Belhpage

PROJECT #: 112G08005-WE13

PROJECT MANAGER: Ernie Wu

E-MAIL: ernie.wu@tetratech.com

PHONE: 757-466-4901

BILLING INFORMATION

BILL TO:

PO#

ADDRESS:

CITY:

ATTENTION:

STATE: ZIP:

PHONE:

DATA TURNAROUND INFORMATION

FAX: 10

HARD COPY: 10

EDD 10

* TO BE APPROVED BY CHEMTECH

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY ☐ USEPA CLP ☐ New York State ASP "B"
- ☐ RESULTS + QC ☐ New Jersey REDUCED ☐ New Jersey CLP ☐ Other
- ☐ EDD Format

ANALYSIS

1	2	3	4	5	6	7	8	9
1,4-Dioxane SW846 8270 SIM								
Iron, Total								
TSS								
TDS								

PRESERVATIVES**COMMENTS**

CHEMTECH SAMPLE ID

PROJECT SAMPLE IDENTIFICATION

SAMPLE MATRIX

SAMPLE TYPE	SAMPLE COLLECTION		# of Bottles
	DATE	TIME	
GW	9/26/25	13:05	4
GW	9/26/25	13:13	4

-- Specify Preservatives

A-HCl B-HNO3

C-H2SO4 D-NaOH

E-ICE F-Other

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

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. <i>[Signature]</i>	9/24/25 9:10	<i>[Signature]</i>
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2. <i>[Signature]</i>	9/24/25 9:10	<i>[Signature]</i>
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3. <i>[Signature]</i>	9/24/25 9:10	<i>[Signature]</i>

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant

MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Cooler Temp *16.3*

Comments: *Ice in Cooler? No*

28 Can #1

Page *1* of *1*

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight

CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete

☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

To: Subject:

Dean Devoe
Q3235 Q3236 Q3237

Good afternoon Dean,

Just a heads up the cooler was received over temp range.

Best Regards,



Yazmeen Gomez

Sr. Project Manager

An Alliance Technical Group Company

Main: 908-789-8900

Direct: 908-728-3147

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com   

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