



LAB CHRONICLE

OrderID:	Q2488	OrderDate:	7/2/2025 11:43:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	A42

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2488-01	RW8-SP100-20250701	Water			07/01/25			07/02/25
			SVOC-SIMGroup1	8270-Modified		07/03/25	07/14/25	
Q2488-02	RW8-SP303-20250701	Water			07/01/25			07/02/25
			SVOC-SIMGroup1	8270-Modified		07/03/25	07/14/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2488
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:	07/01/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/02/25
Client Sample ID:	RW8-SP100-20250701	SDG No.:	Q2488
Lab Sample ID:	Q2488-01	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
BN037485.D	1	07/03/25 08:58	07/14/25 10:26	PB168720

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		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	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	2370	7.732				
1146-65-2	Naphthalene-d8	5650	10.509				
15067-26-2	Acenaphthene-d10	2640	14.355				
1517-22-2	Phenanthrene-d10	4840	17.099				
1719-03-5	Chrysene-d12	3620	21.286				
1520-96-3	Perylene-d12	3160	23.522				

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:	07/01/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/02/25
Client Sample ID:	RW8-SP303-20250701	SDG No.:	Q2488
Lab Sample ID:	Q2488-02	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
BN037486.D	1	07/03/25 08:58	07/14/25 11:02	PB168720

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	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1820	7.731				
1146-65-2	Naphthalene-d8	4230	10.509				
15067-26-2	Acenaphthene-d10	1940	14.355				
1517-22-2	Phenanthrene-d10	3580	17.099				
1719-03-5	Chrysene-d12	2750	21.286				
1520-96-3	Perylene-d12	2330	23.525				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

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Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

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D = Dilution

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A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q2488

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168720BL	PB168720BL	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.40	99		58	132
PB168720BS	PB168720BS	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.31	77		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
PB168720BSD	PB168720BSD	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.32	80		30	150
		Nitrobenzene-d5	0.4	0.37	91		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q2488-01	RW8-SP100-20250701	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
Q2488-02	RW8-SP303-20250701	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.35	86		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.49	123		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2488

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037487.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168720BS	1,4-Dioxane	0.4	0.33	ug/L	83				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2488

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037488.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168720BSD	1,4-Dioxane	0.4	0.30	ug/L	75	10			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB168720BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2488

Lab File ID: BN037475.D

Lab Sample ID: PB168720BL

Instrument ID: BNA_N

Date Extracted: 07/03/2025

Matrix: (soil/water) Water

Date Analyzed: 07/11/2025

Level: (low/med) LOW

Time Analyzed: 16:02

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168720BS	PB168720BS	BN037487.D	07/14/2025
RW8-SP100-20250701	Q2488-01	BN037485.D	07/14/2025
RW8-SP303-20250701	Q2488-02	BN037486.D	07/14/2025
PB168720BSD	PB168720BSD	BN037488.D	07/14/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037465.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2488
DFTPP Injection Date: 07/11/2025
DFTPP Injection Time: 08:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.2 (0.6) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.1 (0.3) 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	6.9
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	78.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15 (19.4) 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	BN037467.D	07/11/2025	11:10
SSTDICC0.2	SSTDICC0.2	BN037468.D	07/11/2025	11:46
SSTDICCC0.4	SSTDICCC0.4	BN037469.D	07/11/2025	12:22
SSTDICC0.8	SSTDICC0.8	BN037470.D	07/11/2025	12:59
SSTDICC1.6	SSTDICC1.6	BN037471.D	07/11/2025	13:36
SSTDICC3.2	SSTDICC3.2	BN037472.D	07/11/2025	14:12
SSTDICC5.0	SSTDICC5.0	BN037473.D	07/11/2025	14:49
PB168720BL	PB168720BL	BN037475.D	07/11/2025	16:02
SSTDCCC0.4EC	SSTDCCC0.4	BN037481.D	07/11/2025	19:43

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037482.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2488
DFTPP Injection Date: 07/14/2025
DFTPP Injection Time: 08:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.3 (0.7) 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	7
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	64.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.9 (20) 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	BN037483.D	07/14/2025	09:10
RW8-SP100-20250701	Q2488-01	BN037485.D	07/14/2025	10:26
RW8-SP303-20250701	Q2488-02	BN037486.D	07/14/2025	11:02
PB168720BS	PB168720BS	BN037487.D	07/14/2025	11:39
PB168720BSD	PB168720BSD	BN037488.D	07/14/2025	12:15
SSTDCCC0.4EC	SSTDCCC0.4	BN037496.D	07/14/2025	18:00

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2488

Client ID : SSTDICCC0.4

Date Analyzed: 07/11/2025

Lab File ID: BN037469.D

Time Analyzed: 12:22

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	1754	7.732	4116	10.51	1977	14.37
UPPER LIMIT	3508	8.232	8232	11.009	3954	14.866
LOWER LIMIT	877	7.232	2058	10.009	988.5	13.866
EPA SAMPLE NO.						
01 PB168720BL	1870	7.73	4442	10.51	1998	14.37

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.: Q2488

Client ID: SSTDICCC0.4

Date Analyzed: 07/11/2025

Lab File ID: BN037469.D

Time Analyzed: 12:22

Instrument ID: BNA_N

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

01

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	3577	17.099	2684	21.286	2478	23.528
UPPER LIMIT	7154	17.599	5368	21.786	4956	24.028
LOWER LIMIT	1788.5	16.599	1342	20.786	1239	23.028
EPA SAMPLE NO.						
PB168720BL	3362	17.10	2365	21.29	2144	23.53

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2488

Client ID : SSTDCCC0.4

Date Analyzed: 07/14/2025

Lab File ID: BN037483.D

Time Analyzed: 09:10

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	1935	7.732	4597	10.51	2166	14.36
UPPER LIMIT	3870	8.232	9194	11.009	4332	14.855
LOWER LIMIT	967.5	7.232	2298.5	10.009	1083	13.855
EPA SAMPLE NO.						
01 PB168720BS	1966	7.73	4534	10.51	2005	14.36
02 PB168720BSD	1906	7.73	4315	10.51	1930	14.36
03 RW8-SP100-20250701	2365	7.73	5646	10.51	2637	14.36
04 RW8-SP303-20250701	1815	7.73	4225	10.51	1935	14.36

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.: Q2488

Client ID: SSTDCCC0.4

Date Analyzed: 07/14/2025

Lab File ID: BN037483.D

Time Analyzed: 09:10

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	3930	17.099	2837	21.286	2676	23.522
UPPER LIMIT	7860	17.599	5674	21.786	5352	24.022
LOWER LIMIT	1965	16.599	1418.5	20.786	1338	23.022
EPA SAMPLE NO.						
01 PB168720BS	3383	17.10	2498	21.29	2162	23.53
02 PB168720BSD	3183	17.10	2258	21.29	1944	23.53
03 RW8-SP100-20250701	4838	17.10	3617	21.29	3162	23.52
04 RW8-SP303-20250701	3578	17.10	2748	21.29	2331	23.53

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.

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QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:		
Client Sample ID:	PB168720BL		SDG No.:	Q2488	
Lab Sample ID:	PB168720BL		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
BN037475.D	1	07/03/25 08:58	07/11/25 16:02	PB168720

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	0.35		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1870	7.731				
1146-65-2	Naphthalene-d8	4440	10.509				
15067-26-2	Acenaphthene-d10	2000	14.366				
1517-22-2	Phenanthrene-d10	3360	17.099				
1719-03-5	Chrysene-d12	2370	21.286				
1520-96-3	Perylene-d12	2140	23.534				

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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:	PB168720BS		SDG No.:	Q2488
Lab Sample ID:	PB168720BS		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
BN037487.D	1	07/03/25 08:58	07/14/25 11:39	PB168720

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 - 150		77%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.732				
1146-65-2	Naphthalene-d8	4530	10.509				
15067-26-2	Acenaphthene-d10	2010	14.355				
1517-22-2	Phenanthrene-d10	3380	17.099				
1719-03-5	Chrysene-d12	2500	21.286				
1520-96-3	Perylene-d12	2160	23.525				

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Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB168720BSD		SDG No.:	Q2488
Lab Sample ID:	PB168720BSD		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
BN037488.D	1	07/03/25 08:58	07/14/25 12:15	PB168720

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		80%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1910	7.732				
1146-65-2	Naphthalene-d8	4320	10.509				
15067-26-2	Acenaphthene-d10	1930	14.356				
1517-22-2	Phenanthrene-d10	3180	17.099				
1719-03-5	Chrysene-d12	2260	21.286				
1520-96-3	Perylene-d12	1940	23.525				

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-BN071125.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Jul 11 15:38:34 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037467.D 0.2 =BN037468.D 0.4 =BN037469.D 0.8 =BN037470.D 1.6 =BN037471.D 3.2 =BN037472.D 5 =BN037473.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	0.370	0.385	0.376	0.396	0.383	0.344	0.376	4.69	
3)	n-Nitrosodimet...	0.478	0.499	0.474	0.526	0.520	0.517	0.502	4.49	
4) S	2-Fluorophenol	0.941	0.935	0.931	0.854	0.927	0.942	0.987	0.931	4.22
5) S	Phenol-d6	1.222	1.196	1.173	1.063	1.158	1.171	1.214	1.171	4.52
6)	bis(2-Chloroet...	1.010	0.981	0.970	0.935	1.004	0.985	0.976	0.980	2.51
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.279	0.277	0.276	0.266	0.296	0.306	0.333	0.290	7.95
9)	Naphthalene	1.063	1.050	1.052	1.015	1.096	1.109	1.140	1.075	3.93
10)	Hexachlorobuta...	0.263	0.251	0.257	0.247	0.266	0.261	0.262	0.258	2.67
11) SURR2	Methylnaphth...	0.513	0.509	0.511	0.490	0.531	0.563	0.689	0.544	12.51
12)	2-Methylnaphth...	0.645	0.640	0.646	0.625	0.691	0.718	0.746	0.673	6.79
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.119	0.115	0.122	0.121	0.138	0.153	0.182	0.136	18.05
15) S	2-Fluorobiphenyl	2.213	2.152	2.305	2.139	2.318	2.357	2.499	2.283	5.55
16)	Acenaphthylene	1.778	1.768	1.761	1.706	1.881	1.886	1.988	1.824	5.34
17)	Acenaphthene	1.207	1.167	1.184	1.138	1.260	1.270	1.340	1.224	5.72
18)	Fluorene	1.478	1.432	1.482	1.423	1.606	1.620	1.723	1.538	7.35
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.036	0.039	0.043	0.050	0.057		0.045	19.20	
21)	4-Bromophenyl-...	0.246	0.238	0.236	0.234	0.253	0.260	0.279	0.250	6.54
22)	Hexachlorobenzene	0.339	0.340	0.340	0.329	0.353	0.351	0.358	0.344	2.97
23)	Atrazine	0.118	0.111	0.115	0.114	0.133	0.153		0.124	13.13
24)	Pentachlorophenol		0.105	0.101	0.100	0.119	0.131	0.156	0.119	18.40
25)	Phenanthrene	1.213	1.165	1.157	1.147	1.242	1.256	1.346	1.218	5.79
26)	Anthracene	1.019	1.035	1.014	1.024	1.131	1.185	1.286	1.099	9.61
27) SURR	Fluoranthene-d10	0.956	0.936	0.909	0.895	0.981	1.049	1.336	1.009	15.16
28)	Fluoranthene	1.252	1.235	1.220	1.232	1.389	1.455	1.572	1.337	10.32
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.674	1.630	1.594	1.511	1.605	1.595	1.648	1.608	3.23
31) S	Terphenyl-d14	0.849	0.822	0.821	0.778	0.836	0.834	0.903	0.835	4.49
32)	Benzo(a)anthra...	1.329	1.310	1.292	1.240	1.394	1.428	1.490	1.355	6.40
33)	Chrysene	1.522	1.487	1.464	1.413	1.473	1.464	1.542	1.481	2.85
34)	Bis(2-ethylhex...	0.451	0.451	0.419	0.439	0.467	0.537	0.461		8.81
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN071125.M

36)	Indeno(1,2,3-c...	1.339	1.316	1.392	1.434	1.655	1.758	1.973	1.553	16.01
37)	Benzo(b)fluora...	1.382	1.423	1.411	1.459	1.668	1.674	1.871	1.556	11.86
38)	Benzo(k)fluora...	1.416	1.374	1.433	1.505	1.674	1.745	1.892	1.577	12.41
39) C	Benzo(a)pyrene	1.069	1.109	1.152	1.162	1.325	1.398	1.549	1.252	14.09
40)	Dibenzo(a,h)an...	1.069	1.039	1.105	1.152	1.342	1.442	1.617	1.252	17.51
41)	Benzo(g,h,i)pe...	1.187	1.236	1.266	1.281	1.442	1.507	1.683	1.372	13.03

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2488</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>07/11/2025 19:43</u>
Lab File ID:	<u>BN037481.D</u>	Init. Calib. Date(s):	<u>07/11/2025 07/11/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>11:10 14:49</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.419		-23.0	50.0
Fluoranthene-d10	1.009	0.757		-25.0	50.0
2-Fluorophenol	0.931	0.915		-1.7	50.0
Phenol-d6	1.171	1.144		-2.3	50.0
Nitrobenzene-d5	0.290	0.238		-17.9	50.0
2-Fluorobiphenyl	2.283	1.999		-12.4	50.0
2,4,6-Tribromophenol	0.136	0.133		-2.2	50.0
Terphenyl-d14	0.835	0.664		-20.5	50.0
1,4-Dioxane	0.376	0.317		-15.7	50.0

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.: Q2488
Instrument ID: BNA_N Calibration Date/Time: 07/14/2025 09:10
Lab File ID: BN037483.D Init. Calib. Date(s): 07/11/2025 07/11/2025
EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:10 14:49
GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.511		-6.1	20.0
Fluoranthene-d10	1.009	0.900		-10.8	20.0
2-Fluorophenol	0.931	0.920		-1.2	20.0
Phenol-d6	1.171	1.170		-0.1	20.0
Nitrobenzene-d5	0.290	0.263		-9.3	20.0
2-Fluorobiphenyl	2.283	2.364		3.5	20.0
2,4,6-Tribromophenol	0.136	0.112		-17.6	20.0
Terphenyl-d14	0.835	0.853		2.2	20.0
1,4-Dioxane	0.376	0.399		6.1	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.: Q2488
 Instrument ID: BNA_N Calibration Date/Time: 07/14/2025 18:00
 Lab File ID: BN037496.D Init. Calib. Date(s): 07/11/2025 07/11/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:10 14:49
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.510		-6.3	50.0
Fluoranthene-d10	1.009	0.908		-10.0	50.0
2-Fluorophenol	0.931	0.998		7.2	50.0
Phenol-d6	1.171	1.250		6.7	50.0
Nitrobenzene-d5	0.290	0.288		-0.7	50.0
2-Fluorobiphenyl	2.283	2.093		-8.3	50.0
2,4,6-Tribromophenol	0.136	0.153		12.5	50.0
Terphenyl-d14	0.835	0.740		-11.4	50.0
1,4-Dioxane	0.376	0.407		8.2	50.0

All other compounds must meet a minimum RRF of 0.010.

LAB CHRONICLE

OrderID:	Q2488	OrderDate:	7/2/2025 11:43:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	A42

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2488-01	RW8-SP100-20250701	Water			07/01/25			07/02/25
			Metals Group4	6010D		07/07/25	07/09/25	
Q2488-02	RW8-SP303-20250701	Water			07/01/25			07/02/25
			Metals Group4	6010D		07/07/25	07/09/25	



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.:	Q2488	Order ID:	Q2488
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 : Q2488-01	RW8-SP100-20250701 RW8-SP100-20250701	Water	Iron	1040		11.7	40.0	50.0	ug/L
Client ID : Q2488-02	RW8-SP303-20250701 RW8-SP303-20250701	Water	Iron	109		11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/01/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/02/25
Client Sample ID:	RW8-SP100-20250701	SDG No.:	Q2488
Lab Sample ID:	Q2488-01	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	1040		1	11.7	40.0	50.0	ug/L	07/07/25 10:15	07/09/25 15:10	6010D	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/01/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/02/25
Client Sample ID:	RW8-SP303-20250701	SDG No.:	Q2488
Lab Sample ID:	Q2488-02	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	109		1	11.7	40.0	50.0	ug/L	07/07/25 10:15	07/09/25 16:52	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.: Q2488

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	3730	4000	93	90 - 110	P	07/09/2025	10:05	LB136407

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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	117	100	117	80 - 120	P	07/09/2025	10:17	LB136407

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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	5010	5000	100	90 - 110	P	07/09/2025	10:48	LB136407
CCV02	Iron	4860	5000	97	90 - 110	P	07/09/2025	11:47	LB136407
CCV03	Iron	4930	5000	99	90 - 110	P	07/09/2025	12:54	LB136407
CCV04	Iron	5000	5000	100	90 - 110	P	07/09/2025	14:05	LB136407
CCV05	Iron	5360	5000	107	90 - 110	P	07/09/2025	15:27	LB136407
CCV06	Iron	5080	5000	102	90 - 110	P	07/09/2025	16:39	LB136407
CCV07	Iron	5070	5000	101	90 - 110	P	07/09/2025	17:50	LB136407
CCV08	Iron	5020	5000	100	90 - 110	P	07/09/2025	18:54	LB136407
CCV09	Iron	5050	5000	101	90 - 110	P	07/09/2025	19:48	LB136407
CCV10	Iron	5110	5000	102	90 - 110	P	07/09/2025	20:41	LB136407
CCV11	Iron	5070	5000	101	90 - 110	P	07/09/2025	21:12	LB136407

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

Contract: TETR06

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Iron	4100	4000	103	90 - 110	P	07/10/2025	18:39	LB136434

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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	118	100	118	80 - 120	P	07/10/2025	18:51	LB136434

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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	5140	5000	103	90 - 110	P	07/10/2025	19:43	LB136434
CCV02	Iron	5010	5000	100	90 - 110	P	07/10/2025	20:59	LB136434
CCV03	Iron	5140	5000	103	90 - 110	P	07/10/2025	22:32	LB136434
CCV04	Iron	4890	5000	98	90 - 110	P	07/10/2025	23:29	LB136434
CCV05	Iron	4950	5000	99	90 - 110	P	07/11/2025	00:47	LB136434
CCV06	Iron	4890	5000	98	90 - 110	P	07/11/2025	01:47	LB136434
CCV07	Iron	4630	5000	93	90 - 110	P	07/11/2025	03:17	LB136434
CCV08	Iron	4780	5000	96	90 - 110	P	07/11/2025	04:18	LB136434
CCV09	Iron	4810	5000	96	90 - 110	P	07/11/2025	05:19	LB136434
CCV10	Iron	4700	5000	94	90 - 110	P	07/11/2025	06:16	LB136434
CCV11	Iron	4700	5000	94	90 - 110	P	07/11/2025	06:43	LB136434



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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	119	100	119	65 - 135	P	07/09/2025	10:26	LB136407
CRI01	Iron	116	100	116	65 - 135	P	07/10/2025	19:01	LB136434



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.: Q2488

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	25.4	+/-50	J	80.0	100	P	07/09/2025	10:22	LB136407

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2488
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	07/09/2025	10:57	LB136407
CCB02	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	11:56	LB136407
CCB03	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	12:58	LB136407
CCB04	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	14:28	LB136407
CCB05	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	15:33	LB136407
CCB06	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	16:43	LB136407
CCB07	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	17:54	LB136407
CCB08	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	18:58	LB136407
CCB09	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	19:52	LB136407
CCB10	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	20:45	LB136407
CCB11	Iron	23.4	+/-50	U	80.0	100	P	07/09/2025	21:16	LB136407

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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	07/10/2025	18:55	LB136434

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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	07/10/2025	19:54	LB136434
CCB02	Iron	23.4	+/-50	U	80.0	100	P	07/10/2025	21:04	LB136434
CCB03	Iron	23.4	+/-50	U	80.0	100	P	07/10/2025	22:36	LB136434
CCB04	Iron	23.4	+/-50	U	80.0	100	P	07/10/2025	23:53	LB136434
CCB05	Iron	23.4	+/-50	U	80.0	100	P	07/11/2025	00:51	LB136434
CCB06	Iron	23.4	+/-50	U	80.0	100	P	07/11/2025	02:23	LB136434
CCB07	Iron	23.4	+/-50	U	80.0	100	P	07/11/2025	03:26	LB136434
CCB08	Iron	23.4	+/-50	U	80.0	100	P	07/11/2025	04:27	LB136434
CCB09	Iron	23.4	+/-50	U	80.0	100	P	07/11/2025	05:24	LB136434
CCB10	Iron	23.4	+/-50	U	80.0	100	P	07/11/2025	06:21	LB136434
CCB11	Iron	23.4	+/-50	U	80.0	100	P	07/11/2025	06:47	LB136434

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

Instrument: P5

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168739BL		WATER		Batch Number:		PB168739		Prep Date:	07/07/2025	
	Iron	11.7	<25	U	40.0	50.0	P	07/11/2025	00:56	LB136434

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client:	<u>Tetra Tech NUS, Inc.</u>	SDG No.:	<u>Q2488</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>ACE</u>
ICS Source:	<u>EPA</u>	Instrument ID:	<u>P5</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	96800	100000	97	85600	116500	07/09/2025	10:31	LB136407
ICSAB01	Iron	98200	99000	99	84400	114500	07/09/2025	10:35	LB136407
ICSA01	Iron	104000	100000	104	85600	116500	07/10/2025	19:11	LB136434
ICSAB01	Iron	98700	99000	100	84400	114500	07/10/2025	19:15	LB136434



METAL QC DATA



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

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc.

level: low

sdg no.: Q2488

contract: TETR06

lab code: ACE

matrix: Water

sample id: Q2512-01

client id: WATER TREATMENT DISCHARGEMS

Percent Solids for Sample: NA

Spiked ID: Q2512-01MS

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	1720		186		1500	102		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	Q2488
contract:	TETR06			lab code:	ACE
matrix:	Water	sample id:	Q2512-01	client id:	WATER TREATMENT DISCHARGEMSD
Percent Solids for Sample:	NA	Spiked ID:	Q2512-01MSD	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	1760		186		1500	105		P



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

Metals
- 5b -

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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>Q2488</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2512-01</u>	Client ID:	<u>WATER TREATMENT DISCHARGEDU</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2512-01DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	186		177		5		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2488</u>
Contract:	<u>TETR06</u>			Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2512-01MS</u>	Client ID:	<u>WATER TREATMENT DISCHARGEMS</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2512-01MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1720		1760		2		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

Contract: TETR06

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168739BS Iron	ug/L	1500	1680		112	87 - 115	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

WATER TREATMENT DISCHARGEL

Lab Name: Alliance **Contract:** TETR06
Lab Code: ACE **Lb No.:** lb136434 **Lab Sample ID :** Q2512-01L **SDG No.:** Q2488
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	186	202 J	9		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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.: Q2488

Contract: TETR06

Lab Code: ACE

Instrument ID:

Date:

Interement 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	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

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.: Q2488

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: PB168739							
PB168739BL	PB168739BL	MB	WATER	07/07/2025	50.0	25.0	
PB168739BS	PB168739BS	LCS	WATER	07/07/2025	50.0	25.0	
Q2488-01	RW8-SP100-20250701	SAM	WATER	07/07/2025	50.0	25.0	
Q2488-02	RW8-SP303-20250701	SAM	WATER	07/07/2025	50.0	25.0	
Q2512-01DUP	WATER TREATMENT DISCHARGEDUP	DUP	WATER	07/07/2025	50.0	25.0	
Q2512-01MS	WATER TREATMENT DISCHARGEMS	MS	WATER	07/07/2025	50.0	25.0	
Q2512-01MSD	WATER TREATMENT DISCHARGEMSD	MSD	WATER	07/07/2025	50.0	25.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2488

Instrument id number: _____

Method: _____

Run number: LB136407

Start date: 07/09/2025

End date: 07/09/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0939	Fe
S1	S1	1	0944	Fe
S2	S2	1	0948	Fe
S3	S3	1	0952	Fe
S4	S4	1	0957	Fe
S5	S5	1	1001	Fe
ICV01	ICV01	1	1005	Fe
LLICV01	LLICV01	1	1017	Fe
ICB01	ICB01	1	1022	Fe
CRI01	CRI01	1	1026	Fe
ICSA01	ICSA01	1	1031	Fe
ICSAB01	ICSAB01	1	1035	Fe
CCV01	CCV01	1	1048	Fe
CCB01	CCB01	1	1057	Fe
CCV02	CCV02	1	1147	Fe
CCB02	CCB02	1	1156	Fe
CCV03	CCV03	1	1254	Fe
CCB03	CCB03	1	1258	Fe
CCV04	CCV04	1	1405	Fe
CCB04	CCB04	1	1428	Fe
Q2488-01	RW8-SP100-20250701	1	1510	Fe
CCV05	CCV05	1	1527	Fe
CCB05	CCB05	1	1533	Fe
CCV06	CCV06	1	1639	Fe
CCB06	CCB06	1	1643	Fe
Q2488-02	RW8-SP303-20250701	1	1652	Fe
CCV07	CCV07	1	1750	Fe
CCB07	CCB07	1	1754	Fe
CCV08	CCV08	1	1854	Fe
CCB08	CCB08	1	1858	Fe
CCV09	CCV09	1	1948	Fe
CCB09	CCB09	1	1952	Fe
CCV10	CCV10	1	2041	Fe
CCB10	CCB10	1	2045	Fe
CCV11	CCV11	1	2112	Fe
CCB11	CCB11	1	2116	Fe

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: ACE

Sdg no.: Q2488

Instrument id number:

Method:

Run number: LB136434

Start date: 07/10/2025

End date: 07/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1646	Fe
S1	S1	1	1650	Fe
S2	S2	1	1655	Fe
S3	S3	1	1659	Fe
S4	S4	1	1703	Fe
S5	S5	1	1707	Fe
ICV01	ICV01	1	1839	Fe
LLICV01	LLICV01	1	1851	Fe
ICB01	ICB01	1	1855	Fe
CRI01	CRI01	1	1901	Fe
ICSA01	ICSA01	1	1911	Fe
ICSAB01	ICSAB01	1	1915	Fe
CCV01	CCV01	1	1943	Fe
CCB01	CCB01	1	1954	Fe
CCV02	CCV02	1	2059	Fe
CCB02	CCB02	1	2104	Fe
Q2512-01DUP	WATER TREATMENT DISCHA	1	2127	Fe
Q2512-01L	WATER TREATMENT DISCHA	5	2136	Fe
Q2512-01MS	WATER TREATMENT DISCHA	1	2150	Fe
Q2512-01MSD	WATER TREATMENT DISCHA	1	2159	Fe
CCV03	CCV03	1	2232	Fe
CCB03	CCB03	1	2236	Fe
CCV04	CCV04	1	2329	Fe
CCB04	CCB04	1	2353	Fe
CCV05	CCV05	1	0047	Fe
CCB05	CCB05	1	0051	Fe
PB168739BL	PB168739BL	1	0056	Fe
PB168739BS	PB168739BS	1	0100	Fe
CCV06	CCV06	1	0147	Fe
CCB06	CCB06	1	0223	Fe
CCV07	CCV07	1	0317	Fe
CCB07	CCB07	1	0326	Fe
CCV08	CCV08	1	0418	Fe
CCB08	CCB08	1	0427	Fe
CCV09	CCV09	1	0519	Fe
CCB09	CCB09	1	0524	Fe
CCV10	CCV10	1	0616	Fe
CCB10	CCB10	1	0621	Fe
CCV11	CCV11	1	0643	Fe
CCB11	CCB11	1	0647	Fe

LAB CHRONICLE

OrderID:	Q2488	OrderDate:	7/2/2025 11:43:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	A42

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2488-02	RW8-SP303-2025070 1	WATER			07/01/25 13:13			07/02/25
			TDS	SM2540 C			07/02/25 16:30	
			TSS	SM2540 D			07/03/25 09:30	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	07/01/25 13:13
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	07/02/25
Client Sample ID:	RW8-SP303-20250701	SDG No.:	Q2488
Lab Sample ID:	Q2488-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	64.0		1	1.00	10.0	10.0	mg/L		07/02/25 16:30	SM 2540 C-20
TSS	4.00	U	1	1.00	4.00	4.00	mg/L		07/03/25 09:30	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.: Q2488

Project: NWIRP Bethpage 112G08005-WE13

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136363BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	07/02/2025
Sample ID: LB136376BL							
TSS	mg/L	1	2.0000	J	1	4	07/03/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2488
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2488-02
Client ID:	RW8-SP303-20250701DUP	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	64.0		61.0		1	4.8		07/02/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2488
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2499-02
Client ID:	CompDUP	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	338		341		1	0.88		07/03/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136363

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136363BS							
TDS	mg/L	100	95.0		95	1	90-110	07/02/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2488

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136376

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136376BS							
TSS	mg/L	550	533		97	1	90-110	07/03/2025