



LAB CHRONICLE

OrderID:	Q2253	OrderDate:	6/5/2025 4:32:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2253-01	RW8-SP100-20250605	Water			06/05/25			06/05/25
			SVOC-SIMGroup1	8270-Modified		06/06/25	06/09/25	
Q2253-02	RW8-SP303-20250605	Water			06/05/25			06/05/25
			SVOC-SIMGroup1	8270-Modified		06/06/25	06/09/25	



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

Hit Summary Sheet
SW-846

SDG No.: Q2253
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:	06/05/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	RW8-SP100-20250605	SDG No.:	Q2253
Lab Sample ID:	Q2253-01	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
BN037197.D	1	06/06/25 11:54	06/09/25 18:15	PB168336

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	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1620	7.589				
1146-65-2	Naphthalene-d8	3870	10.372				
15067-26-2	Acenaphthene-d10	1950	14.235				
1517-22-2	Phenanthrene-d10	3400	16.984				
1719-03-5	Chrysene-d12	2540	21.189				
1520-96-3	Perylene-d12	2500	23.38				

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:	06/05/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	RW8-SP303-20250605	SDG No.:	Q2253
Lab Sample ID:	Q2253-02	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
BN037198.D	1	06/06/25 11:54	06/09/25 18:51	PB168336

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	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		98%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		126%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1550	7.589				
1146-65-2	Naphthalene-d8	3860	10.372				
15067-26-2	Acenaphthene-d10	2060	14.234				
1517-22-2	Phenanthrene-d10	3590	16.984				
1719-03-5	Chrysene-d12	2370	21.188				
1520-96-3	Perylene-d12	2310	23.38				

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

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A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: **Q2253**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168336BL	PB168336BL	2-Methylnaphthalene-d10	0.4	0.36	91		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
PB168336BS	PB168336BS	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.30	76		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q2250-02MS	MW-11A-13.5-060525MS	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q2250-03MSD	MW-11A-13.5-060525MSD	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
Q2253-01	RW8-SP100-20250605	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
Q2253-02	RW8-SP303-20250605	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.39	98		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.51	126		58	132

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2253

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2250-02MS	Client Sample ID:	MW-11A-13.5-060525MS					DataFile:	BN037192.D		
1,4-Dioxane	0.42	2.50	3.20	ug/L	167	*			70	130	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: Q2253
Client: Tetra Tech NUS, Inc.
Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q2250-03MSD		Client Sample ID: MW-11A-13.5-060525MSD						DataFile: BN037193.D			
1,4-Dioxane	0.4	2.50	3.30	ug/L	200	*	18		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2253

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037201.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168336BS	1,4-Dioxane	0.4	0.40	ug/L	100				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168336BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2253

SAS No.: Q2253 SDG NO.: Q2253

Lab File ID: BN037190.D

Lab Sample ID: PB168336BL

Instrument ID: BNA_N

Date Extracted: 06/06/2025

Matrix: (soil/water) Water

Date Analyzed: 06/09/2025

Level: (low/med) LOW

Time Analyzed: 11:30

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168336BS	PB168336BS	BN037201.D	06/09/2025
MW-11A-13.5-060525MS	Q2250-02MS	BN037192.D	06/09/2025
MW-11A-13.5-060525MSD	Q2250-03MSD	BN037193.D	06/09/2025
RW8-SP100-20250605	Q2253-01	BN037197.D	06/09/2025
RW8-SP303-20250605	Q2253-02	BN037198.D	06/09/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q2253 SDG NO.: Q2253

Lab File ID: BN037142.D

DFTPP Injection Date: 06/03/2025

Instrument ID: BNA_N

DFTPP Injection Time: 10:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	58.7
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	53.9
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	6.8
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	10.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (19.8) 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	BN037143.D	06/03/2025	11:39
SSTDICC0.2	SSTDICC0.2	BN037144.D	06/03/2025	12:15
SSTDICCC0.4	SSTDICCC0.4	BN037145.D	06/03/2025	12:51
SSTDICC0.8	SSTDICC0.8	BN037146.D	06/03/2025	13:26
SSTDICC1.6	SSTDICC1.6	BN037147.D	06/03/2025	14:02
SSTDICC3.2	SSTDICC3.2	BN037148.D	06/03/2025	14:38
SSTDICC5.0	SSTDICC5.0	BN037149.D	06/03/2025	15:14

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q2253

SDG NO.: Q2253

Lab File ID: BN037188.D

DFTPP Injection Date: 06/09/2025

Instrument ID: BNA_N

DFTPP Injection Time: 10:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	74
68	Less than 2.0% of mass 69	0.4 (0.7) 1
69	Mass 69 relative abundance	59.6
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	53
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
275	10.0 - 60.0% of mass 198	24.1
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	8.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (18.5) 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	BN037189.D	06/09/2025	10:54
PB168336BL	PB168336BL	BN037190.D	06/09/2025	11:30
MW-11A-13.5-060525MS	Q2250-02MS	BN037192.D	06/09/2025	14:33
MW-11A-13.5-060525MSD	Q2250-03MSD	BN037193.D	06/09/2025	15:47
RW8-SP100-20250605	Q2253-01	BN037197.D	06/09/2025	18:15
RW8-SP303-20250605	Q2253-02	BN037198.D	06/09/2025	18:51
PB168336BS	PB168336BS	BN037201.D	06/09/2025	20:40
SSTDCCC0.4EC	SSTDCCC0.4	BN037202.D	06/09/2025	21:16

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2253 SAS No.: Q2253 SDG NO.: Q2253

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/09/2025

Lab File ID: BN037189.D Time Analyzed: 10:54

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	2093	7.589	5342	10.36	2894	14.24
UPPER LIMIT	4186	8.089	10684	10.862	5788	14.735
LOWER LIMIT	1046.5	7.089	2671	9.862	1447	13.735
EPA SAMPLE NO.						
01 PB168336BL	1816	7.59	4227	10.37	2101	14.25
02 MW-11A-13.5-060525MS	2144	7.59	5670	10.36	2991	14.23
03 MW-11A-13.5-060525MSD	2169	7.59	5646	10.36	2926	14.24
04 PB168336BS	2227	7.59	5466	10.36	2607	14.23
05 RW8-SP100-20250605	1623	7.59	3868	10.37	1953	14.24
06 RW8-SP303-20250605	1546	7.59	3855	10.37	2057	14.23

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: CHEMTECH

Lab Code: CHEM Case No.: Q2253 SAS No.: Q2253 SDG NO.: Q2253

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/09/2025

Lab File ID: BN037189.D Time Analyzed: 10:54

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	5308	16.984	3516	21.18	3185	23.377
UPPER LIMIT	10616	17.484	7032	21.68	6370	23.877
LOWER LIMIT	2654	16.484	1758	20.68	1592.5	22.877
EPA SAMPLE NO.						
01 PB168336BL	3500	17.00	2446	21.19	2291	23.39
02 MW-11A-13.5-060525MS	5389	16.98	3448	21.19	3177	23.38
03 MW-11A-13.5-060525MSD	5139	16.98	3419	21.18	3336	23.37
04 PB168336BS	4253	16.98	2468	21.19	2373	23.38
05 RW8-SP100-20250605	3398	16.98	2540	21.19	2503	23.38
06 RW8-SP303-20250605	3589	16.98	2367	21.19	2311	23.38

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:	PB168336BL		SDG No.:	Q2253
Lab Sample ID:	PB168336BL		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
BN037190.D	1	06/06/25 11:54	06/09/25 11:30	PB168336

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	0.36		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1820	7.589				
1146-65-2	Naphthalene-d8	4230	10.372				
15067-26-2	Acenaphthene-d10	2100	14.245				
1517-22-2	Phenanthrene-d10	3500	16.996				
1719-03-5	Chrysene-d12	2450	21.189				
1520-96-3	Perylene-d12	2290	23.386				

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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB168336BS		SDG No.:	Q2253
Lab Sample ID:	PB168336BS		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
BN037201.D	1	06/06/25 11:54	06/09/25 20:40	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.40		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	0.30		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	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	2230	7.589				
1146-65-2	Naphthalene-d8	5470	10.361				
15067-26-2	Acenaphthene-d10	2610	14.234				
1517-22-2	Phenanthrene-d10	4250	16.984				
1719-03-5	Chrysene-d12	2470	21.188				
1520-96-3	Perylene-d12	2370	23.377				

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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/05/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/05/25	
Client Sample ID:	MW-11A-13.5-060525MS		SDG No.:	Q2253	
Lab Sample ID:	Q2250-02MS		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	960	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
BN037192.D	1	06/06/25 11:54	06/09/25 14:33	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.20		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2140	7.589				
1146-65-2	Naphthalene-d8	5670	10.361				
15067-26-2	Acenaphthene-d10	2990	14.234				
1517-22-2	Phenanthrene-d10	5390	16.984				
1719-03-5	Chrysene-d12	3450	21.188				
1520-96-3	Perylene-d12	3180	23.38				

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:	06/05/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525MSD	SDG No.:	Q2253
Lab Sample ID:	Q2250-03MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 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
BN037193.D	1	06/06/25 11:54	06/09/25 15:47	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.30		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	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2170	7.59				
1146-65-2	Naphthalene-d8	5650	10.362				
15067-26-2	Acenaphthene-d10	2930	14.235				
1517-22-2	Phenanthrene-d10	5140	16.984				
1719-03-5	Chrysene-d12	3420	21.18				
1520-96-3	Perylene-d12	3340	23.374				

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-BN060325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Jun 04 01:52:03 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037143.D 0.2 =BN037144.D 0.4 =BN037145.D 0.8 =BN037146.D 1.6 =BN037147.D 3.2 =BN037148.D 5.0 =BN037149.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.598	0.657	0.510	0.506	0.526	0.477	0.458	0.533	13.16
3)	n-Nitrosodimet...	1.098	1.031	1.061	1.067	1.163	1.061	1.012	1.071	4.60
4) S	2-Fluorophenol	1.027	1.017	0.940	0.945	1.036	0.984	0.975	0.989	3.91
5) S	Phenol-d6	1.156	1.144	1.127	1.126	1.293	1.261	1.285	1.199	6.42
6)	bis(2-Chloroet...	1.138	1.139	1.128	1.089	1.223	1.146	1.146	1.144	3.51
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.393	0.383	0.421	0.407	0.455	0.450	0.446	0.422	6.86
9)	Naphthalene	1.183	1.125	1.119	1.111	1.215	1.165	1.160	1.154	3.31
10)	Hexachlorobuta...	0.253	0.249	0.261	0.247	0.266	0.246	0.238	0.251	3.81
11) SURR	2-Methylnaphth...	0.520	0.515	0.562	0.536	0.598	0.577	0.588	0.557	5.97
12)	2-Methylnaphth...	0.704	0.680	0.691	0.719	0.809	0.783	0.793	0.740	7.22
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.124	0.147	0.146	0.157	0.185	0.182	0.186	0.161	15.03
15) S	2-Fluorobiphenyl	1.722	1.691	1.626	1.654	1.814	1.706	1.725	1.705	3.52
16)	Acenaphthylene	1.946	1.905	1.768	1.871	2.112	2.050	2.075	1.961	6.32
17)	Acenaphthene	1.290	1.253	1.159	1.212	1.370	1.309	1.320	1.273	5.59
18)	Fluorene	1.701	1.577	1.518	1.611	1.823	1.736	1.752	1.674	6.48
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.039	0.050	0.067	0.090	0.102	0.114	0.077		38.58
21)	4-Bromophenyl-...	0.256	0.253	0.244	0.254	0.281	0.276	0.271	0.262	5.32
22)	Hexachlorobenzene	0.289	0.284	0.269	0.279	0.301	0.284	0.274	0.283	3.72
23)	Atrazine	0.194	0.200	0.187	0.209	0.241	0.238	0.247	0.216	11.42
24)	Pentachlorophenol	0.086	0.092	0.107	0.140	0.153	0.165	0.124		26.72
25)	Phenanthrene	1.285	1.242	1.193	1.248	1.386	1.357	1.361	1.296	5.64
26)	Anthracene	1.098	1.099	1.036	1.143	1.294	1.290	1.317	1.183	9.71
27) SURR	Fluoranthene-d10	0.969	0.937	0.975	0.956	1.092	1.071	1.114	1.016	7.22
28)	Fluoranthene	1.339	1.294	1.277	1.365	1.579	1.563	1.605	1.432	10.09
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	2.051	1.974	1.827	1.928	2.048	1.955	1.885	1.953	4.20
31) S	Terphenyl-d14	0.964	0.909	0.896	0.941	1.006	0.952	0.923	0.942	3.96
32)	Benzo(a)anthra...	1.369	1.367	1.291	1.404	1.582	1.553	1.570	1.448	8.15
33)	Chrysene	1.755	1.636	1.473	1.582	1.698	1.584	1.556	1.612	5.81
34)	Bis(2-ethylhex...	1.032	0.859	0.774	0.858	0.956	0.914	1.002	0.914	9.90
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN060325.M

36)	Indeno(1,2,3-c...	1.443	1.605	1.501	1.526	1.695	1.673	1.697	1.591	6.44
37)	Benzo(b)fluora...	1.529	1.520	1.421	1.575	1.763	1.713	1.781	1.615	8.58
38)	Benzo(k)fluora...	1.576	1.565	1.461	1.612	1.777	1.743	1.805	1.648	7.79
39) C	Benzo(a)pyrene	1.310	1.287	1.219	1.294	1.451	1.426	1.481	1.352	7.32
40)	Dibenzo(a,h)an...	1.074	1.167	1.160	1.196	1.333	1.332	1.328	1.227	8.48
41)	Benzo(g,h,i)pe...	1.368	1.450	1.351	1.372	1.477	1.424	1.425	1.410	3.33

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2253 SAS No.: Q2253 SDG No.: Q2253

Instrument ID: BNA_N Calibration Date/Time: 06/09/2025 10:54

Lab File ID: BN037189.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:39 15:14

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.558		0.2	20.0
Fluoranthene-d10	1.016	0.960		-5.5	20.0
2-Fluorophenol	0.989	0.924		-6.6	20.0
Phenol-d6	1.199	1.124		-6.3	20.0
Nitrobenzene-d5	0.422	0.422		0.0	20.0
2-Fluorobiphenyl	1.705	1.691		-0.8	20.0
2,4,6-Tribromophenol	0.161	0.142		-11.8	20.0
Terphenyl-d14	0.942	0.909		-3.5	20.0
1,4-Dioxane	0.533	0.519		-2.6	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2253 SAS No.: Q2253 SDG No.: Q2253

Instrument ID: BNA_N Calibration Date/Time: 06/09/2025 21:16

Lab File ID: BN037202.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:39 15:14

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.557		0.0	50.0
Fluoranthene-d10	1.016	0.913		-10.1	50.0
2-Fluorophenol	0.989	0.956		-3.3	50.0
Phenol-d6	1.199	1.158		-3.4	50.0
Nitrobenzene-d5	0.422	0.434		2.8	50.0
2-Fluorobiphenyl	1.705	1.635		-4.1	50.0
2,4,6-Tribromophenol	0.161	0.144		-10.6	50.0
Terphenyl-d14	0.942	0.923		-2.0	50.0
1,4-Dioxane	0.533	0.496		-6.9	50.0

All other compounds must meet a minimum RRF of 0.010.



LAB CHRONICLE

OrderID:	Q2253	OrderDate:	6/5/2025 4:32:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2253-01	RW8-SP100-20250605	Water			06/05/25			06/05/25
			Metals Group4	6010D		06/10/25	06/10/25	
Q2253-02	RW8-SP303-20250605	Water			06/05/25			06/05/25
			Metals Group4	6010D		06/10/25	06/10/25	



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Hit Summary Sheet
SW-846

SDG No.: Q2253

Order ID: Q2253

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 : RW8-SP100-20250605									
Q2253-01	RW8-SP100-20250605	Water	Iron	1380		11.7	40.0	50.0	ug/L
Client ID : RW8-SP303-20250605									
Q2253-02	RW8-SP303-20250605	Water	Iron	51.5		11.7	40.0	50.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/05/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	RW8-SP100-20250605	SDG No.:	Q2253
Lab Sample ID:	Q2253-01	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	1380		1	11.7	40.0	50.0	ug/L	06/10/25 10:05	06/10/25 23:49	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:	06/05/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	RW8-SP303-20250605	SDG No.:	Q2253
Lab Sample ID:	Q2253-02	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	51.5		1	11.7	40.0	50.0	ug/L	06/10/25 10:05	06/10/25 23:53	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.:** Q2253
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2253 **SAS No.:** Q2253
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	3770	4000	94	90 - 110	P	06/10/2025	14:37	LB136097

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2253

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2253 **SAS No.:** Q2253

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Iron	108	100	108	80 - 120	P	06/10/2025	14:41	LB136097

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2253

Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2253 **SAS No.:** Q2253

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Iron	4860	5000	97	90 - 110	P	06/10/2025	15:30	LB136097
CCV02	Iron	4930	5000	99	90 - 110	P	06/10/2025	16:28	LB136097
CCV03	Iron	5390	5000	108	90 - 110	P	06/10/2025	17:36	LB136097
CCV04	Iron	5420	5000	108	90 - 110	P	06/10/2025	18:28	LB136097
CCV05	Iron	5340	5000	107	90 - 110	P	06/10/2025	19:18	LB136097
CCV06	Iron	5150	5000	103	90 - 110	P	06/10/2025	20:09	LB136097
CCV07	Iron	5190	5000	104	90 - 110	P	06/10/2025	21:04	LB136097
CCV08	Iron	5140	5000	103	90 - 110	P	06/10/2025	22:04	LB136097
CCV09	Iron	5160	5000	103	90 - 110	P	06/10/2025	22:56	LB136097
CCV10	Iron	5200	5000	104	90 - 110	P	06/10/2025	23:57	LB136097
CCV11	Iron	5060	5000	101	90 - 110	P	06/11/2025	01:35	LB136097
CCV12	Iron	4930	5000	99	90 - 110	P	06/11/2025	02:21	LB136097



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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2253
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2253 **SAS No.:** Q2253
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Iron	111	100	111	65 - 135	P	06/10/2025	14:50	LB136097



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2253

Contract: TETR06

Lab Code: CHEM

Case No.: Q2253

SAS No.: Q2253

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	06/10/2025	14:45	LB136097

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2253
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2253 **SAS No.:** Q2253

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	06/10/2025	15:35	LB136097
CCB02	Iron	23.4	+/-50	U	80.0	100	P	06/10/2025	16:32	LB136097
CCB03	Iron	23.4	+/-50	U	80.0	100	P	06/10/2025	17:40	LB136097
CCB04	Iron	23.4	+/-50	U	80.0	100	P	06/10/2025	18:32	LB136097
CCB05	Iron	23.4	+/-50	U	80.0	100	P	06/10/2025	19:22	LB136097
CCB06	Iron	23.4	+/-50	U	80.0	100	P	06/10/2025	20:14	LB136097
CCB07	Iron	23.4	+/-50	U	80.0	100	P	06/10/2025	21:08	LB136097
CCB08	Iron	23.4	+/-50	U	80.0	100	P	06/10/2025	22:08	LB136097
CCB09	Iron	23.4	+/-50	U	80.0	100	P	06/10/2025	23:01	LB136097
CCB10	Iron	23.4	+/-50	U	80.0	100	P	06/11/2025	00:02	LB136097
CCB11	Iron	23.4	+/-50	U	80.0	100	P	06/11/2025	01:39	LB136097
CCB12	Iron	23.4	+/-50	U	80.0	100	P	06/11/2025	02:25	LB136097

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: Q2253

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168384BL		WATER		Batch Number:		PB168384		Prep Date:	06/10/2025	
	Iron	11.7	<25	U	40.0	50.0	P	06/10/2025	23:41	LB136097

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2253
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2253 **SAS No.:** Q2253
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Iron	97000	101000	96	85600	116500	06/10/2025	14:54	LB136097
ICSAB01	Iron	99000	99300	100	84400	114500	06/10/2025	15:18	LB136097



METAL QC DATA



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Fax : 908 789 8922

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc.

level: low

sdg no.: Q2253

contract: TETR06

lab code: CHEM

case no.: Q2253

sas no.: Q2253

matrix: Water

sample id: Q2253-02

client id: RW8-SP303-20250605MS

Percent Solids for Sample: NA

Spiked ID: Q2253-02MS

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	1490		51.5		1500	96		P

metals

- 5a -

MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q2253
contract: TETR06 **lab code:** CHEM **case no.:** Q2253 **sas no.:** Q2253
matrix: Water **sample id:** Q2253-02 **client id:** RW8-SP303-20250605MSD
Percent Solids for Sample: NA **Spiked ID:** Q2253-02MSD **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	1490		51.5		1500	96		P

Metals
- 5b -

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2253
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2253 **SAS No.:** Q2253
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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.....

A
B
C
D
E
F
G
H

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2253</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2253</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2253-02</u>	Client ID:	<u>RW8-SP303-20250605DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2253-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	51.5		55.7		8		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2253</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2253</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2253-02MS</u>	Client ID:	<u>RW8-SP303-20250605MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2253-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Iron	ug/L	20	1490		1490		0		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** Q2253
Contract: TETR06 **Lab Code:** CHEM **Case No.:** Q2253 **SAS No.:** Q2253

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168384BS Iron	ug/L	1500	1620		108	87 - 115	P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-SP303-20250605L

Lab Name: Chemtech Consulting Group

Contract: TETR06

Lab Code: CHEM

Lb No.: lb136097

Lab Sample ID : Q2253-02L

SDG No.: Q2253

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	51.5	250 U	100.0		P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2253

Contract: TETR06

Lab Code: CHEM

Case No.: Q2253

SAS No.: Q2253

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.: Q2253

Contract: TETR06

Lab Code: CHEM

Case No.: Q2253

SAS No.: Q2253

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2253

Contract: TETR06

Lab Code: CHEM

Case No.: Q2253

SAS No.: Q2253

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2253

Contract: TETR06

Lab Code: CHEM

Case No.: Q2253

SAS No.: Q2253

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: Q2253

Contract: TETR06

Lab Code: CHEM

Case No.: Q2253

SAS No.: Q2253

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

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SAMPLE PREPARATION SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	SDG No.:	<u>Q2253</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2253</u>
		SAS No.:	<u>Q2253</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168384							
PB168384BL	PB168384BL	MB	WATER	06/10/2025	50.0	25.0	
PB168384BS	PB168384BS	LCS	WATER	06/10/2025	50.0	25.0	
Q2253-01	RW8-SP100-20250605	SAM	WATER	06/10/2025	50.0	25.0	
Q2253-02	RW8-SP303-20250605	SAM	WATER	06/10/2025	50.0	25.0	
Q2253-02DUP	RW8-SP303-20250605DUP	DUP	WATER	06/10/2025	50.0	25.0	
Q2253-02MS	RW8-SP303-20250605MS	MS	WATER	06/10/2025	50.0	25.0	
Q2253-02MSD	RW8-SP303-20250605MSD	MSD	WATER	06/10/2025	50.0	25.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: CHEM **Case no.:** Q2253 **Sas no.:** Q2253 **Sdg no.:** Q2253

Instrument id number: **Method:** **Run number:** LB136097

Start date: 06/10/2025 **End date:** 06/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1401	Fe
S1	S1	1	1405	Fe
S2	S2	1	1409	Fe
S3	S3	1	1414	Fe
S4	S4	1	1418	Fe
S5	S5	1	1422	Fe
ICV01	ICV01	1	1437	Fe
LLICV01	LLICV01	1	1441	Fe
ICB01	ICB01	1	1445	Fe
CRI01	CRI01	1	1450	Fe
ICSA01	ICSA01	1	1454	Fe
ICSAB01	ICSAB01	1	1518	Fe
CCV01	CCV01	1	1530	Fe
CCB01	CCB01	1	1535	Fe
CCV02	CCV02	1	1628	Fe
CCB02	CCB02	1	1632	Fe
CCV03	CCV03	1	1736	Fe
CCB03	CCB03	1	1740	Fe
CCV04	CCV04	1	1828	Fe
CCB04	CCB04	1	1832	Fe
CCV05	CCV05	1	1918	Fe
CCB05	CCB05	1	1922	Fe
CCV06	CCV06	1	2009	Fe
CCB06	CCB06	1	2014	Fe
CCV07	CCV07	1	2104	Fe
CCB07	CCB07	1	2108	Fe
CCV08	CCV08	1	2204	Fe
CCB08	CCB08	1	2208	Fe
CCV09	CCV09	1	2256	Fe
CCB09	CCB09	1	2301	Fe
PB168384BL	PB168384BL	1	2341	Fe
PB168384BS	PB168384BS	1	2345	Fe
Q2253-01	RW8-SP100-20250605	1	2349	Fe
Q2253-02	RW8-SP303-20250605	1	2353	Fe
CCV10	CCV10	1	2357	Fe
CCB10	CCB10	1	0002	Fe
Q2253-02DUP	RW8-SP303-20250605DUP	1	0006	Fe
Q2253-02L	RW8-SP303-20250605L	5	0010	Fe
Q2253-02MS	RW8-SP303-20250605MS	1	0015	Fe
Q2253-02MSD	RW8-SP303-20250605MSD	1	0019	Fe
CCV11	CCV11	1	0135	Fe

metals
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ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: CHEM Case no.: Q2253 Sas no.: Q2253

Sdg no.: Q2253

Instrument id number: Method:

Run number: LB136097

Start date: 06/10/2025 End date: 06/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB11	CCB11	1	0139	Fe
CCV12	CCV12	1	0221	Fe
CCB12	CCB12	1	0225	Fe

LAB CHRONICLE

OrderID:	Q2253	OrderDate:	6/5/2025 4:32:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2253-02	RW8-SP303-20250605	WATER			06/05/25 13:13			06/05/25
			TDS	SM2540 C			06/06/25 12:30	
			TSS	SM2540 D			06/09/25 13:00	



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/05/25 13:13
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/05/25
Client Sample ID:	RW8-SP303-20250605	SDG No.:	Q2253
Lab Sample ID:	Q2253-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TDS	321		1	1.00	10.0	10.0	mg/L		06/06/25 12:30	SM 2540 C-15
TSS	4.00	U	1	1.00	4.00	4.00	mg/L		06/09/25 13:00	SM 2540 D-15

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.: Q2253

Project: NWIRP Bethpage 112G08005-WE13

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136041BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	06/06/2025
Sample ID: LB136054BL							
TSS	mg/L	1	2.0000	J	1	4	06/09/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2253
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2229-02
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	121		121		1	0		06/09/2025

Duplicate Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2253
Project:	NWIRP Bethpage 112G08005-WE13	Sample ID:	Q2231-05
Client ID:	MW-17-20250604DUP	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	296		302		1	2.01		06/06/2025

Laboratory Control Sample Summary

Client:	Tetra Tech NUS, Inc.	SDG No.:	Q2253
Project:	NWIRP Bethpage 112G08005-WE13	Run No.:	LB136041

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136041BS							
TDS	mg/L	100	95.0		95	1	90-110	06/06/2025

Laboratory Control Sample Summary

Client: Tetra Tech NUS, Inc.

SDG No.: Q2253

Project: NWIRP Bethpage 112G08005-WE13

Run No.: LB136054

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136054BS							
TSS	mg/L	550	533		97	1	90-110	06/09/2025