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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	

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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

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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

Alliance TECHNICAL GROUP
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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
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

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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

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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 Qual	Limits Low	Limits High	RPD
PB168720BS	1,4-Dioxane	0.4	0.33	ug/L	83				70	130	

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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 Qual	Limits Low	Limits High	Limits RPD
PB168720BSD	1,4-Dioxane	0.4	0.30	ug/L	75	10			70	130	20

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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:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q2488

Lab File ID: BN037465.D | DFTPP Injection Date: 07/11/2025

Instrument ID: BNA_N | 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

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q2488

Lab File ID: BN037482.D | DFTPP Injection Date: 07/14/2025

Instrument ID: BNA_N | 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

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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.

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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)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	3577	17.09	2684	21.28	2478	23.528
	UPPER LIMIT	7154	17.59	5368	21.78	4956	24.028
	LOWER LIMIT	1788.5	16.59	1342	20.78	1239	23.028
	EPA SAMPLE NO.						
01	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.

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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.

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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	17.09	2837	21.28	2676	23.522
	UPPER LIMIT	7860	17.59	5674	21.78	5352	24.022
	LOWER LIMIT	1965	16.59	1418.5	20.78	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.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

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				

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

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				

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

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

Report of Analysis

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
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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

Response Factor Report BNA_N

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)	SURR	2-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

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q2488

Instrument ID: BNA_N Calibration Date/Time: 07/11/2025 19:43

Lab File ID: BN037481.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	0.419		-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.

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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.

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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.