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

LAB CHRONICLE

OrderID:	Q2013	**OrderDate:**	5/12/2025 10:15:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2013-02	**BP-TT192D2-GW-20250508**	**Water**			**05/08/25**			**05/12/25**
			SVOC-SIMGroup1	8270-Modified		05/13/25	05/14/25	
Q2013-03	**BP-TT192D1-GW-20250509**	**Water**			**05/09/25**			**05/12/25**
			SVOC-SIMGroup1	8270-Modified		05/13/25	05/14/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2013

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**BP-TT192D2-GW-20250508**							
Q2013-02	BP-TT192D2-GW-20250 WATER	1,4-Dioxane	1.200		0.09	0.26	0.26	ug/L
		Total Svoc :			**1.20**			
		Total Concentration:			**1.20**			
Client ID :	**BP-TT192D1-GW-20250509**							
Q2013-03	BP-TT192D1-GW-20250 WATER	1,4-Dioxane	1.500		0.08	0.24	0.24	ug/L
		Total Svoc :			**1.50**			
		Total Concentration:			**1.50**			

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/08/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/12/25
Client Sample ID:	BP-TT192D2-GW-20250508	SDG No.:	Q2013
Lab Sample ID:	Q2013-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	770 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
BN037019.D	1	05/13/25 08:49	05/14/25 19:12	PB167952

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.20		0.090	0.26	0.26	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.69	*	58 - 132		172%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2100	7.618				
1146-65-2	Naphthalene-d8	5680	10.394				
15067-26-2	Acenaphthene-d10	3260	14.267				
1517-22-2	Phenanthrene-d10	6420	17.009				
1719-03-5	Chrysene-d12	5770	21.207				
1520-96-3	Perylene-d12	5630	23.409				

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:	05/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/12/25
Client Sample ID:	BP-TT192D1-GW-20250509	SDG No.:	Q2013
Lab Sample ID:	Q2013-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	820 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
BN037020.D	1	05/13/25 08:49	05/14/25 19:48	PB167952

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.81	*	58 - 132		203%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2080	7.618				
1146-65-2	Naphthalene-d8	5600	10.393				
15067-26-2	Acenaphthene-d10	3310	14.266				
1517-22-2	Phenanthrene-d10	6610	17.008				
1719-03-5	Chrysene-d12	5760	21.206				
1520-96-3	Perylene-d12	5190	23.409				

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2013

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167952BL	PB167952BL	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
PB167952BS	PB167952BS	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
PB167952BSD	PB167952BSD	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.39	96		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.41	103		58	132
Q2013-02	BP-TT192D2-GW-20250508	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.38	96		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.69	172	*	58	132
Q2013-03	BP-TT192D1-GW-20250509	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.31	76		53	106
		Terphenyl-d14	0.4	0.81	203	*	58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2013

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037021.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167952BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2013

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037022.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167952BSD	1,4-Dioxane	0.4	0.40	ug/L	100	11			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167952BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2013 SAS No.: Q2013 SDG NO.: Q2013

Lab File ID: BN037010.D Lab Sample ID: PB167952BL

Instrument ID: BNA_N Date Extracted: 05/13/2025

Matrix: (soil/water) Water Date Analyzed: 05/14/2025

Level: (low/med) LOW Time Analyzed: 11:20

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167952BS	PB167952BS	BN037021.D	05/14/2025
BP-TT192D2-GW-20250508	Q2013-02	BN037019.D	05/14/2025
BP-TT192D1-GW-20250509	Q2013-03	BN037020.D	05/14/2025
PB167952BSD	PB167952BSD	BN037022.D	05/14/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2013 SDG NO.: Q2013

Lab File ID: BN036998.D DFTPP Injection Date: 05/13/2025

Instrument ID: BNA_N DFTPP Injection Time: 17:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.8
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	55.6
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	52.7
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	23.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	8.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.4 (19) 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	BN036999.D	05/13/2025	17:41
SSTDICC0.2	SSTDICC0.2	BN037000.D	05/13/2025	18:17
SSTDICCC0.4	SSTDICCC0.4	BN037001.D	05/13/2025	18:53
SSTDICC0.8	SSTDICC0.8	BN037002.D	05/13/2025	19:29
SSTDICC1.6	SSTDICC1.6	BN037003.D	05/13/2025	20:05
SSTDICC3.2	SSTDICC3.2	BN037004.D	05/13/2025	20:41
SSTDICC5.0	SSTDICC5.0	BN037005.D	05/13/2025	21:17

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2013 SDG NO.: Q2013

Lab File ID: BN037008.D DFTPP Injection Date: 05/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	71.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	59.2
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	55.7
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
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	4.2
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	10.2 (18.3) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037009.D	05/14/2025	10:31
PB167952BL	PB167952BL	BN037010.D	05/14/2025	11:20
BP-TT192D2-GW-20250508	Q2013-02	BN037019.D	05/14/2025	19:12
BP-TT192D1-GW-20250509	Q2013-03	BN037020.D	05/14/2025	19:48
PB167952BS	PB167952BS	BN037021.D	05/14/2025	20:24
PB167952BSD	PB167952BSD	BN037022.D	05/14/2025	21:00
SSTDCCC0.4EC	SSTDCCC0.4	BN037023.D	05/14/2025	21:36

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2013 SAS No.: Q2013 SDG NO.: Q2013

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/14/2025

Lab File ID: BN037009.D Time Analyzed: 10:31

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	1633	7.618	4300	10.39	2444	14.27
	UPPER LIMIT	3266	8.118	8600	10.894	4888	14.767
	LOWER LIMIT	816.5	7.118	2150	9.894	1222	13.767
	EPA SAMPLE NO.						
01	PB167952BL	1697	7.62	4346	10.40	2391	14.27
02	PB167952BS	2111	7.62	5540	10.39	3182	14.27
03	PB167952BSD	1677	7.62	4591	10.39	2680	14.27
04	BP-TT192D2-GW-20250508	2098	7.62	5678	10.39	3261	14.27
05	BP-TT192D1-GW-20250509	2077	7.62	5596	10.39	3313	14.27

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: CHEMTECH

Lab Code: CHEM Case No.: Q2013 SAS No.: Q2013 SDG NO.: Q2013

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/14/2025

Lab File ID: BN037009.D Time Analyzed: 10:31

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	4780	17.009	4137	21.215	4043	23.421
	UPPER LIMIT	9560	17.509	8274	21.715	8086	23.921
	LOWER LIMIT	2390	16.509	2068.5	20.715	2021.5	22.921
	EPA SAMPLE NO.						
01	PB167952BL	4921	17.02	4198	21.22	4092	23.42
02	PB167952BS	6367	17.01	4959	21.21	4122	23.41
03	PB167952BSD	5142	17.01	4350	21.21	3999	23.41
04	BP-TT192D2-GW-20250508	6421	17.01	5769	21.21	5632	23.41
05	BP-TT192D1-GW-20250509	6611	17.01	5758	21.21	5194	23.41

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:	PB167952BL	SDG No.:	Q2013
Lab Sample ID:	PB167952BL	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
BN037010.D	1	05/13/25 08:49	05/14/25 11:20	PB167952

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		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1700	7.618				
1146-65-2	Naphthalene-d8	4350	10.404				
15067-26-2	Acenaphthene-d10	2390	14.267				
1517-22-2	Phenanthrene-d10	4920	17.021				
1719-03-5	Chrysene-d12	4200	21.215				
1520-96-3	Perylene-d12	4090	23.418				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
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D = Dilution
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167952BS	SDG No.:	Q2013
Lab Sample ID:	PB167952BS	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
BN037021.D	1	05/13/25 08:49	05/14/25 20:24	PB167952

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2110	7.618				
1146-65-2	Naphthalene-d8	5540	10.394				
15067-26-2	Acenaphthene-d10	3180	14.267				
1517-22-2	Phenanthrene-d10	6370	17.009				
1719-03-5	Chrysene-d12	4960	21.207				
1520-96-3	Perylene-d12	4120	23.41				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB167952BSD	SDG No.:	Q2013
Lab Sample ID:	PB167952BSD	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
BN037022.D	1	05/13/25 08:49	05/14/25 21:00	PB167952

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	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1680	7.618				
1146-65-2	Naphthalene-d8	4590	10.394				
15067-26-2	Acenaphthene-d10	2680	14.267				
1517-22-2	Phenanthrene-d10	5140	17.009				
1719-03-5	Chrysene-d12	4350	21.207				
1520-96-3	Perylene-d12	4000	23.407				

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

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN051425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 14 11:26:32 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036999.D 0.2 =BN037000.D 0.4 =BN037001.D 0.8 =BN037002.D 1.6 =BN037003.D 3.2 =BN037004.D 5.0 =BN037005.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		0.510	0.512	0.487	0.514	0.467	0.454	0.491	5.25
3)		n-Nitrosodimet...	1.465	0.974	0.980	0.971	1.075	0.967	0.950	1.054	17.59
4)	S	2-Fluorophenol		1.101	1.134	1.024	1.093	0.964	0.971	1.048	6.87
5)	S	Phenol-d6		1.304	1.385	1.236	1.392	1.259	1.292	1.311	4.91
6)		bis(2-Chloroet...	1.441	1.163	1.153	1.135	1.240	1.168	1.148	1.207	9.02
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.546	0.383	0.398	0.400	0.452	0.426	0.442	0.436	12.60
9)		Naphthalene	1.326	1.140	1.144	1.122	1.226	1.152	1.165	1.182	6.05
10)		Hexachlorobuta...	0.286	0.248	0.244	0.235	0.256	0.236	0.233	0.248	7.47
11)	SURR	2-Methylnaphth...	0.529	0.547	0.552	0.548	0.603	0.574	0.588	0.563	4.65
12)		2-Methylnaphth...	0.754	0.724	0.736	0.733	0.814	0.770	0.790	0.760	4.34
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.174	0.168	0.178	0.160	0.186	0.175	0.189	0.176	5.77
15)	S	2-Fluorobiphenyl	1.912	1.801	1.901	1.802	1.927	1.672	1.807	1.832	4.90
16)		Acenaphthylene	1.906	1.838	1.894	1.849	2.071	1.997	2.075	1.947	5.14
17)		Acenaphthene	1.255	1.229	1.243	1.217	1.350	1.298	1.315	1.272	3.89
18)		Fluorene	1.602	1.581	1.635	1.611	1.779	1.721	1.752	1.669	4.80
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.060	0.073	0.079	0.102	0.103	0.124	0.090	26.02
21)		4-Bromophenyl-...	0.243	0.246	0.250	0.247	0.262	0.261	0.259	0.253	3.13
22)		Hexachlorobenzene	0.267	0.269	0.281	0.259	0.281	0.270	0.267	0.270	3.03
23)		Atrazine	0.199	0.207	0.211	0.213	0.237	0.234	0.242	0.220	7.64
24)		Pentachlorophenol	0.133	0.134	0.141	0.137	0.159	0.162	0.177	0.149	11.45
25)		Phenanthrene	1.259	1.272	1.292	1.263	1.367	1.337	1.361	1.307	3.56
26)		Anthracene	1.099	1.104	1.166	1.130	1.269	1.259	1.300	1.190	7.13
27)	SURR	Fluoranthene-d10	1.033	1.033	1.078	1.042	1.153	1.161	1.178	1.097	5.95
28)		Fluoranthene	1.461	1.439	1.500	1.496	1.670	1.672	1.693	1.562	7.13
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.744	1.708	1.727	1.656	1.790	1.641	1.711	1.711	2.96
31)	S	Terphenyl-d14	0.897	0.844	0.871	0.822	0.891	0.816	0.848	0.856	3.73
32)		Benzo(a)anthra...	1.463	1.432	1.485	1.438	1.594	1.521	1.609	1.506	4.77
33)		Chrysene	1.655	1.559	1.616	1.532	1.653	1.560	1.576	1.593	3.05
34)		Bis(2-ethylhex...	0.955	0.919	0.906	0.855	0.941	0.903	1.011	0.927	5.27
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN051425.M

36)		Indeno(1,2,3-c...	1.511	1.613	1.645	1.568	1.687	1.732	1.680	1.634	4.65
37)		Benzo(b)fluora...	1.631	1.570	1.602	1.599	1.749	1.698	1.765	1.659	4.71
38)		Benzo(k)fluora...	1.539	1.538	1.642	1.601	1.770	1.661	1.719	1.639	5.34
39)	C	Benzo(a)pyrene	1.380	1.343	1.381	1.331	1.486	1.444	1.486	1.407	4.59
40)		Dibenzo(a,h)an...	1.116	1.232	1.273	1.237	1.340	1.376	1.334	1.272	6.90
41)		Benzo(g,h,i)pe...	1.299	1.407	1.424	1.330	1.403	1.439	1.376	1.383	3.72

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2013 SAS No.: Q2013 SDG No.: Q2013

Instrument ID: BNA_N Calibration Date/Time: 05/14/2025 10:31

Lab File ID: BN037009.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 17:41 21:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.552		-2.0	20.0
Fluoranthene-d10	1.097	1.065		-2.9	20.0
2-Fluorophenol	1.048	1.078		2.9	20.0
Phenol-d6	1.311	1.303		-0.6	20.0
Nitrobenzene-d5	0.436	0.407		-6.7	20.0
2-Fluorobiphenyl	1.832	1.850		1.0	20.0
2,4,6-Tribromophenol	0.176	0.176		0.0	20.0
Terphenyl-d14	0.856	0.892		4.2	20.0
1,4-Dioxane	0.491	0.448		-8.8	20.0

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2013 SAS No.: Q2013 SDG No.: Q2013

Instrument ID: BNA_N Calibration Date/Time: 05/14/2025 21:36

Lab File ID: BN037023.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 17:41 21:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.559		-0.7	50.0
Fluoranthene-d10	1.097	1.047		-4.6	50.0
2-Fluorophenol	1.048	1.129		7.7	50.0
Phenol-d6	1.311	1.364		4.0	50.0
Nitrobenzene-d5	0.436	0.406		-6.9	50.0
2-Fluorobiphenyl	1.832	1.894		3.3	50.0
2,4,6-Tribromophenol	0.176	0.178		1.1	50.0
Terphenyl-d14	0.856	0.900		5.1	50.0
1,4-Dioxane	0.491	0.508		3.5	50.0

All other compounds must meet a minimum RRF of 0.010.