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

LAB CHRONICLE

OrderID:	Q3324	**OrderDate:**	10/10/2025 10:16:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	D41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3324-03	**BP-VPB-184-EB-2025 1009**	**Water**			**10/09/25**			**10/09/25**
			SVOC-SIMGroup1	8270-Modified		10/10/25	10/13/25	
Q3324-05	**BP-VPB-184-GW-780-782**	**Water**			**10/07/25**			**10/09/25**
			SVOC-SIMGroup1	8270-Modified		10/10/25	10/13/25	
Q3324-06	**BP-VPB-184-GW-840-842**	**Water**			**10/09/25**			**10/09/25**
			SVOC-SIMGroup1	8270-Modified		10/10/25	10/13/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q3324

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

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:	10/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/09/25
Client Sample ID:	BP-VPB-184-EB-20251009	SDG No.:	Q3324
Lab Sample ID:	Q3324-03	Matrix:	Water
Analytical Method:	SW8270ESIM Level : LOW	% Solid:	0
Sample Wt/Vol:	760 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.26	U	1	0.090	0.26	0.26	ug/L	10/13/25 19:48	PB170061
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.34			30 - 150		86%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.43			30 - 150		106%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.35			55 - 111		87%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.42			53 - 106		104%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.53	*		58 - 132		133%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	5140								
1146-65-2	Naphthalene-d8	13300								
15067-26-2	Acenaphthene-d10	6680								
1517-22-2	Phenanthrene-d10	12100								
1719-03-5	Chrysene-d12	10400								
1520-96-3	Perylene-d12	9950								

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

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:	10/07/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/09/25
Client Sample ID:	BP-VPB-184-GW-780-782	SDG No.:	Q3324
Lab Sample ID:	Q3324-05	Matrix:	Water
Analytical Method:	SW8270ESIM Level : LOW	% Solid:	0
Sample Wt/Vol:	650 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.31	U	1	0.10	0.31	0.31	ug/L	10/13/25 20:24	PB170061
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.39			30 - 150		96%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.39			30 - 150		98%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.40			55 - 111		100%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.49	*		53 - 106		123%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.61	*		58 - 132		152%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	5800								
1146-65-2	Naphthalene-d8	14900								
15067-26-2	Acenaphthene-d10	7290								
1517-22-2	Phenanthrene-d10	12200								
1719-03-5	Chrysene-d12	8880								
1520-96-3	Perylene-d12	8840								

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

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:	10/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	10/09/25
Client Sample ID:	BP-VPB-184-GW-840-842	SDG No.:	Q3324
Lab Sample ID:	Q3324-06	Matrix:	Water
Analytical Method:	SW8270ESIM Level : LOW	% Solid:	0
Sample Wt/Vol:	710 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.28	U	1	0.090	0.28	0.28	ug/L	10/13/25 21:00	PB170061
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.32			30 - 150		80%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.38			30 - 150		95%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.32			55 - 111		79%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.40			53 - 106		99%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.44			58 - 132		111%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	5890								
1146-65-2	Naphthalene-d8	15900								
15067-26-2	Acenaphthene-d10	7550								
1517-22-2	Phenanthrene-d10	13300								
1719-03-5	Chrysene-d12	12100								
1520-96-3	Perylene-d12	7290								

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

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

Surrogate Summary

SW-846

SDG No.: Q3324

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
PB170061BL	PB170061BL	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.37	91		55	111
		2-Fluorobiphenyl	0.4	0.41	101		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
PB170061BS	PB170061BS	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.49	121		58	132
PB170061BSD	PB170061BSD	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q3324-03	BP-VPB-184-EB-20251009	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
Q3324-05	BP-VPB-184-GW-780-782	2-Methylnaphthalene-d10	0.4	0.39	96		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.49	123	*	53	106
		Terphenyl-d14	0.4	0.61	152	*	58	132
Q3324-06	BP-VPB-184-GW-840-842	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.44	111		58	132

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3324 **Analytical Method:** 8270-Modified

Client: Tetra Tech NUS, Inc. **DataFile:** BN038079.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB170061BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3324 **Analytical Method:** 8270-Modified

Client: Tetra Tech NUS, Inc. **DataFile:** BN038080.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB170061BSD	1,4-Dioxane	0.4	0.39	ug/L	98	5			70	130	20

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB170061BL

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3324

Lab File ID: BN038084.D Lab Sample ID: PB170061BL

Instrument ID: BNA_N Date Extracted: 10/10/2025

Matrix: (soil/water) Water Date Analyzed: 10/14/2025

Level: (low/med) LOW Time Analyzed: 02:31

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170061BS	PB170061BS	BN038079.D	10/13/2025
BP-VPB-184-EB-20251009	Q3324-03	BN038076.D	10/13/2025
BP-VPB-184-GW-780-782	Q3324-05	BN038077.D	10/13/2025
BP-VPB-184-GW-840-842	Q3324-06	BN038078.D	10/13/2025
PB170061BSD	PB170061BSD	BN038080.D	10/13/2025

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q3324

Lab File ID: BN037860.D | DFTPP Injection Date: 09/23/2025

Instrument ID: BNA_N | DFTPP Injection Time: 11:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	72.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037861.D	09/23/2025	12:13
SSTDICC0.2	SSTDICC0.2	BN037862.D	09/23/2025	12:49
SSTDICCC0.4	SSTDICCC0.4	BN037863.D	09/23/2025	13:25
SSTDICC0.8	SSTDICC0.8	BN037864.D	09/23/2025	14:02
SSTDICC1.6	SSTDICC1.6	BN037865.D	09/23/2025	14:38
SSTDICC3.2	SSTDICC3.2	BN037866.D	09/23/2025	15:15
SSTDICC5.0	SSTDICC5.0	BN037867.D	09/23/2025	15:51

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q3324

Lab File ID: BN038065.D | DFTPP Injection Date: 10/13/2025

Instrument ID: BNA_N | DFTPP Injection Time: 13:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.2) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	70.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (21) 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	BN038066.D	10/13/2025	13:47
BP-VPB-184-EB-20251009	Q3324-03	BN038076.D	10/13/2025	19:48
BP-VPB-184-GW-780-782	Q3324-05	BN038077.D	10/13/2025	20:24
BP-VPB-184-GW-840-842	Q3324-06	BN038078.D	10/13/2025	21:00
PB170061BS	PB170061BS	BN038079.D	10/13/2025	21:36
PB170061BSD	PB170061BSD	BN038080.D	10/13/2025	22:12
SSTDCCC0.4EC	SSTDCCC0.4	BN038081.D	10/13/2025	23:24

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q3324

Lab File ID: BN038082.D DFTPP Injection Date: 10/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 00:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	83.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17 (18) 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	BN038083.D	10/14/2025	01:19
PB170061BL	PB170061BL	BN038084.D	10/14/2025	02:31
SSTDCCC0.4EC	SSTDCCC0.4	BN038088.D	10/14/2025	04:56

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3324

Client ID : SSTDCCC0.4 Date Analyzed: 10/13/2025

Lab File ID: BN038066.D Time Analyzed: 13:47

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	7166	7.797	18651	10.59	10244	14.45
	UPPER LIMIT	14332	8.297	37302	11.094	20488	14.952
	LOWER LIMIT	3583	7.297	9325.5	10.094	5122	13.952
	EPA SAMPLE NO.						
01	PB170061BS	6519	7.80	17676	10.59	7952	14.45
02	PB170061BSD	6262	7.80	16679	10.59	7730	14.45
03	BP-VPB-184-EB-20251009	5139	7.80	13291	10.61	6680	14.45
04	BP-VPB-184-GW-780-782	5800	7.80	14884	10.59	7288	14.45
05	BP-VPB-184-GW-840-842	5887	7.80	15917	10.59	7552	14.45

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3324

Client ID: SSTDCCC0.4 Date Analyzed: 10/13/2025

Lab File ID: BN038066.D Time Analyzed: 13:47

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	18901	17.198	16827		21.393	17326		23.712
	UPPER LIMIT	37802	17.698	33654		21.893	34652		24.212
	LOWER LIMIT	9450.5	16.698	8413.5		20.893	8663		23.212
	EPA SAMPLE NO.								
01	PB170061BS	12853	17.20	8233	*	21.39	7491	*	23.71
02	PB170061BSD	12472	17.20	7875	*	21.39	7156	*	23.71
03	BP-VPB-184-EB-20251009	12083	17.20	10438		21.39	9949		23.71
04	BP-VPB-184-GW-780-782	12210	17.20	8879		21.39	8844		23.71
05	BP-VPB-184-GW-840-842	13324	17.20	12137		21.39	7289	*	23.71

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3324

Client ID : SSTDCCC0.4 Date Analyzed: 10/14/2025

Lab File ID: BN038083.D Time Analyzed: 01:19

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	7061	7.797	18151	10.59	9016	14.45
	UPPER LIMIT	14122	8.297	36302	11.094	18032	14.952
	LOWER LIMIT	3530.5	7.297	9075.5	10.094	4508	13.952
	EPA SAMPLE NO.						
01	PB170061BL	6692	7.80	16789	10.61	7676	14.45

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3324

Client ID: SSTDCCC0.4 Date Analyzed: 10/14/2025

Lab File ID: BN038083.D Time Analyzed: 01:19

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	16225	17.198	13579	21.384	13727		23.709
	UPPER LIMIT	32450	17.698	27158	21.884	27454		24.209
	LOWER LIMIT	8112.5	16.698	6789.5	20.884	6863.5		23.209
	EPA SAMPLE NO.							
01	PB170061BL	11455	17.21	7795	21.39	6815	*	23.71

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

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:	PB170061BL	SDG No.:	Q3324
Lab Sample ID:	PB170061BL	Matrix:	Water
Analytical Method:	SW8270ESIM Level : LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.20	U	1	0.070	0.20	0.20	ug/L	10/14/25 02:31	PB170061
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.33			30 - 150		83%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.35			30 - 150		88%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.37			55 - 111		91%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.41			53 - 106		101%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.49			58 - 132		122%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	6690								
1146-65-2	Naphthalene-d8	16800								
15067-26-2	Acenaphthene-d10	7680								
1517-22-2	Phenanthrene-d10	11500								
1719-03-5	Chrysene-d12	7800								
1520-96-3	Perylene-d12	6820								

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

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:	PB170061BS	SDG No.:	Q3324
Lab Sample ID:	PB170061BS	Matrix:	Water
Analytical Method:	SW8270ESIM Level : LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.37		1	0.070	0.20	0.20	ug/L	10/13/25 21:36	PB170061
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.39			30 - 150		98%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.32			30 - 150		81%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.36			55 - 111		90%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.43	*		53 - 106		108%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.49			58 - 132		121%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	6520								
1146-65-2	Naphthalene-d8	17700								
15067-26-2	Acenaphthene-d10	7950								
1517-22-2	Phenanthrene-d10	12900								
1719-03-5	Chrysene-d12	8230								
1520-96-3	Perylene-d12	7490								

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

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:	PB170061BSD	SDG No.:	Q3324
Lab Sample ID:	PB170061BSD	Matrix:	Water
Analytical Method:	SW8270ESIM Level : LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	Prep Date: 10/10/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS										
123-91-1	1,4-Dioxane	0.39		1	0.070	0.20	0.20	ug/L	10/13/25 22:12	PB170061
SURROGATES										
7297-45-2	2-Methylnaphthalene-d10	0.39			30 - 150		98%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.33			30 - 150		82%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.38			55 - 111		95%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.43	*		53 - 106		108%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.49			58 - 132		123%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**								
3855-82-1	1,4-Dichlorobenzene-d4	6260								
1146-65-2	Naphthalene-d8	16700								
15067-26-2	Acenaphthene-d10	7730								
1517-22-2	Phenanthrene-d10	12500								
1719-03-5	Chrysene-d12	7880								
1520-96-3	Perylene-d12	7160								

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

Calibration Files
0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.413	0.410	0.403	0.425	0.410	0.376	0.406	4.04	
3)		n-Nitrosodimet...	0.541	0.517	0.526	0.561	0.549	0.547	0.540	3.03	
4)	S	2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.998	0.913	5.84
5)	S	Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.353	1.199	7.15
6)		bis(2-Chloroet...	1.133	1.096	1.082	1.066	1.150	1.124	1.143	1.113	2.89
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.338	0.305	6.14
9)		Naphthalene	1.105	1.089	1.048	1.051	1.123	1.137	1.160	1.102	3.84
10)		Hexachlorobuta...	0.198	0.184	0.182	0.183	0.192	0.188	0.188	0.188	2.94
11)	SURR	2-Methylnaphth...	0.515	0.518	0.499	0.504	0.553	0.587	0.714	0.556	13.74
12)		2-Methylnaphth...	0.678	0.681	0.668	0.682	0.754	0.775	0.802	0.720	7.68
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.148	0.142	0.135	0.139	0.163	0.184		0.152	12.15
15)	S	2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.762	1.638	4.36
16)		Acenaphthylene	1.698	1.721	1.663	1.680	1.907	1.951	2.094	1.816	9.23
17)		Acenaphthene	1.262	1.230	1.198	1.208	1.351	1.371	1.437	1.294	7.16
18)		Fluorene	1.455	1.455	1.452	1.466	1.664	1.717	1.748	1.565	8.77
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.041	0.044	0.046	0.058	0.071	0.084	0.057	29.75	
21)		4-Bromophenyl-...	0.252	0.247	0.244	0.244	0.272	0.275	0.291	0.261	7.07
22)		Hexachlorobenzene	0.317	0.312	0.305	0.300	0.324	0.323	0.332	0.316	3.53
23)		Atrazine	0.180	0.181	0.172	0.178	0.205	0.224	0.249	0.199	14.70
24)		Pentachlorophenol	0.101	0.092	0.097	0.116	0.136		0.108	16.50	
25)		Phenanthrene	1.301	1.271	1.230	1.224	1.358	1.379	1.452	1.316	6.37
26)		Anthracene	1.034	1.035	1.023	1.057	1.209	1.275	1.361	1.142	12.10
27)	SURR	Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.370	1.006	17.59
28)		Fluoranthene	1.278	1.315	1.311	1.358	1.555	1.617	1.713	1.450	12.07
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.576	1.600	1.521	1.476	1.607	1.595	1.679	1.579	4.12
31)	S	Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.893	0.797	6.34
32)		Benzo(a)anthra...	1.376	1.359	1.294	1.285	1.423	1.483	1.567	1.398	7.27
33)		Chrysene	1.508	1.526	1.462	1.446	1.559	1.512	1.569	1.512	3.03
34)		Bis(2-ethylhex...	0.592	0.487	0.476	0.518	0.569	0.676	0.553	13.57	
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN092325.M

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

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3324

Instrument ID: BNA_N Calibration Date/Time: 10/13/2025 13:47

Lab File ID: BN038066.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.571		2.7	20.0
Fluoranthene-d10	1.006	1.065		5.9	20.0
2-Fluorophenol	0.913	0.893		-2.2	20.0
Phenol-d6	1.199	0.939		-21.7	20.0
Nitrobenzene-d5	0.305	0.238		-22.0	20.0
2-Fluorobiphenyl	1.638	1.428		-12.8	20.0
2,4,6-Tribromophenol	0.152	0.137		-9.9	20.0
Terphenyl-d14	0.797	0.724		-9.2	20.0
1,4-Dioxane	0.406	0.465		14.5	20.0

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3324

Instrument ID: BNA_N Calibration Date/Time: 10/13/2025 23:24

Lab File ID: BN038081.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.494		-11.2	50.0
Fluoranthene-d10	1.006	0.861		-14.4	50.0
2-Fluorophenol	0.913	0.864		-5.4	50.0
Phenol-d6	1.199	0.927		-22.7	50.0
Nitrobenzene-d5	0.305	0.270		-11.5	50.0
2-Fluorobiphenyl	1.638	1.596		-2.6	50.0
2,4,6-Tribromophenol	0.152	0.107		-29.6	50.0
Terphenyl-d14	0.797	0.757		-5.0	50.0
1,4-Dioxane	0.406	0.485		19.5	50.0

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3324

Instrument ID: BNA_N Calibration Date/Time: 10/14/2025 01:19

Lab File ID: BN038083.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.546		-1.8	20.0
Fluoranthene-d10	1.006	1.016		1.0	20.0
2-Fluorophenol	0.913	0.823		-9.9	20.0
Phenol-d6	1.199	0.940		-21.6	20.0
Nitrobenzene-d5	0.305	0.248		-18.7	20.0
2-Fluorobiphenyl	1.638	1.500		-8.4	20.0
2,4,6-Tribromophenol	0.152	0.116		-23.7	20.0
Terphenyl-d14	0.797	0.709		-11.0	20.0
1,4-Dioxane	0.406	0.473		16.5	20.0

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q3324

Instrument ID: BNA_N Calibration Date/Time: 10/14/2025 04:56

Lab File ID: BN038088.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.537		-3.4	50.0
Fluoranthene-d10	1.006	0.979		-2.7	50.0
2-Fluorophenol	0.913	0.880		-3.6	50.0
Phenol-d6	1.199	0.975		-18.7	50.0
Nitrobenzene-d5	0.305	0.255		-16.4	50.0
2-Fluorobiphenyl	1.638	1.577		-3.7	50.0
2,4,6-Tribromophenol	0.152	0.119		-21.7	50.0
Terphenyl-d14	0.797	0.748		-6.1	50.0
1,4-Dioxane	0.406	0.494		21.7	50.0

All other compounds must meet a minimum RRF of 0.010.