

LAB CHRONICLE

OrderID:	Q3213	OrderDate:	9/25/2025 2:33:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3213-02	VPB184-HYD-20250924	Water			09/24/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-03	BP-VPB-184-GW-340-342	Water			09/23/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-05	BP-VPB-184-GW-380-382	Water			09/23/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-06	BP-VPB-184-DUP-20250923	Water			09/23/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-08	BP-VPB-184-GW-420-422	Water			09/24/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-10	BP-VPB-184-EB-20250923	Water			09/23/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	

Hit Summary Sheet SW-846

SDG No.: Q3213

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-184-GW-340-342								
Q3213-03	BP-VPB-184-GW-340-34 WATER	1,4-Dioxane	0.270		0.07	0.21	0.21	ug/L
		Total Svoc :		0.27				
		Total Concentration:		0.27				
Client ID : BP-VPB-184-GW-380-382								
Q3213-05	BP-VPB-184-GW-380-38 WATER	1,4-Dioxane	0.420		0.11	0.34	0.34	ug/L
		Total Svoc :		0.42				
		Total Concentration:		0.42				
Client ID : BP-VPB-184-DUP-20250923								
Q3213-06	BP-VPB-184-DUP-202509 WATER	1,4-Dioxane	0.470		0.13	0.39	0.39	ug/L
		Total Svoc :		0.47				
		Total Concentration:		0.47				
Client ID : BP-VPB-184-GW-420-422								
Q3213-08	BP-VPB-184-GW-420-42 WATER	1,4-Dioxane	0.330		0.07	0.21	0.21	ug/L
		Total Svoc :		0.33				
		Total Concentration:		0.33				
Client ID : BP-VPB-184-EB-20250923								
Q3213-10	BP-VPB-184-EB-202509 WATER	1,4-Dioxane	0.300		0.09	0.27	0.27	ug/L
		Total Svoc :		0.30				
		Total Concentration:		0.30				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/24/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	VPB184-HYD-20250924	SDG No.:	Q3213
Lab Sample ID:	Q3213-02	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
BN038028.D	1	09/26/25 13:15	10/07/25 03:09	PB169904

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	0.014	*	30 - 150		4%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.061	*	30 - 150		15%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		129%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9190	7.804				
1146-65-2	Naphthalene-d8	24900	10.605				
15067-26-2	Acenaphthene-d10	11300	14.462				
1517-22-2	Phenanthrene-d10	19300	17.211				
1719-03-5	Chrysene-d12	14400	21.393				
1520-96-3	Perylene-d12	10600	23.709				

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:	09/23/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-GW-340-342	SDG No.:	Q3213
Lab Sample ID:	Q3213-03	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
BN038029.D	1	09/26/25 13:15	10/07/25 03:46	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8590	7.804				
1146-65-2	Naphthalene-d8	24900	10.605				
15067-26-2	Acenaphthene-d10	13000	14.452				
1517-22-2	Phenanthrene-d10	23200	17.211				
1719-03-5	Chrysene-d12	14500	21.393				
1520-96-3	Perylene-d12	13000	23.709				

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/23/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-GW-380-382	SDG No.:	Q3213
Lab Sample ID:	Q3213-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	590 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
BN038030.D	1	09/26/25 13:15	10/07/25 04:22	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.42		0.11	0.34	0.34	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8870		7.804			
1146-65-2	Naphthalene-d8	26100		10.605			
15067-26-2	Acenaphthene-d10	14200		14.462			
1517-22-2	Phenanthrene-d10	28000		17.21			
1719-03-5	Chrysene-d12	20300		21.384			
1520-96-3	Perylene-d12	15100		23.709			

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/23/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-DUP-20250923	SDG No.:	Q3213
Lab Sample ID:	Q3213-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	510 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
BN038031.D	1	09/26/25 13:15	10/07/25 04:58	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.47		0.13	0.39	0.39	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	10000	7.804				
1146-65-2	Naphthalene-d8	28500	10.605				
15067-26-2	Acenaphthene-d10	13800	14.452				
1517-22-2	Phenanthrene-d10	22700	17.211				
1719-03-5	Chrysene-d12	16800	21.393				
1520-96-3	Perylene-d12	17600	23.706				

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/24/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-GW-420-422	SDG No.:	Q3213
Lab Sample ID:	Q3213-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN038032.D	1	09/26/25 13:15	10/07/25 05:34	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.61	*	58 - 132		151%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9240		7.804			
1146-65-2	Naphthalene-d8	27700		10.605			
15067-26-2	Acenaphthene-d10	15500		14.452			
1517-22-2	Phenanthrene-d10	29700		17.198			
1719-03-5	Chrysene-d12	18000		21.384			
1520-96-3	Perylene-d12	14000		23.704			

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/23/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-EB-20250923	SDG No.:	Q3213
Lab Sample ID:	Q3213-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	730 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
BN038033.D	1	09/26/25 13:15	10/07/25 06:10	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.090	0.27	0.27	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9570	7.803				
1146-65-2	Naphthalene-d8	28400	10.605				
15067-26-2	Acenaphthene-d10	15500	14.462				
1517-22-2	Phenanthrene-d10	28500	17.21				
1719-03-5	Chrysene-d12	16900	21.393				
1520-96-3	Perylene-d12	14100	23.709				

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QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q3213

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169904BL	PB169904BL	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.28	70		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
PB169904BS	PB169904BS	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.28	69		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.44	111		58	132
PB169904BSD	PB169904BSD	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.28	71		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
Q3213-02	VPB184-HYD-20250924	2-Methylnaphthalene-d10	0.4	0.014	4	*	30	150
		Fluoranthene-d10	0.4	0.061	15	*	30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.52	129		58	132
Q3213-03	BP-VPB-184-GW-340-342	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q3213-05	BP-VPB-184-GW-380-382	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
Q3213-06	BP-VPB-184-DUP-20250923	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q3213-08	BP-VPB-184-GW-420-422	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.61	151	*	58	132
Q3213-10	BP-VPB-184-EB-20250923	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3213

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038037.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169904BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3213

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038038.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169904BSD	1,4-Dioxane	0.4	0.32	ug/L	80	0			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169904BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3213

Lab File ID: BN038023.D

Lab Sample ID: PB169904BL

Instrument ID: BNA_N

Date Extracted: 09/26/2025

Matrix: (soil/water) Water

Date Analyzed: 10/07/2025

Level: (low/med) LOW

Time Analyzed: 00:08

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169904BS	PB169904BS	BN038037.D	10/07/2025
VPB184-HYD-20250924	Q3213-02	BN038028.D	10/07/2025
BP-VPB-184-GW-340-342	Q3213-03	BN038029.D	10/07/2025
BP-VPB-184-GW-380-382	Q3213-05	BN038030.D	10/07/2025
PB169904BSD	PB169904BSD	BN038038.D	10/07/2025
BP-VPB-184-DUP-20250923	Q3213-06	BN038031.D	10/07/2025
BP-VPB-184-GW-420-422	Q3213-08	BN038032.D	10/07/2025
BP-VPB-184-EB-20250923	Q3213-10	BN038033.D	10/07/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037860.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3213
DFTPP Injection Date: 09/23/2025
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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038021.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3213
DFTPP Injection Date: 10/06/2025
DFTPP Injection Time: 22:13

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 (0.5) 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	7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	81.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.7 (21.1) 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	BN038022.D	10/06/2025	23:32
PB169904BL	PB169904BL	BN038023.D	10/07/2025	00:08
VPB184-HYD-20250924	Q3213-02	BN038028.D	10/07/2025	03:09
BP-VPB-184-GW-340-342	Q3213-03	BN038029.D	10/07/2025	03:46
BP-VPB-184-GW-380-382	Q3213-05	BN038030.D	10/07/2025	04:22
BP-VPB-184-DUP-20250923	Q3213-06	BN038031.D	10/07/2025	04:58
BP-VPB-184-GW-420-422	Q3213-08	BN038032.D	10/07/2025	05:34
BP-VPB-184-EB-20250923	Q3213-10	BN038033.D	10/07/2025	06:10
PB169904BS	PB169904BS	BN038037.D	10/07/2025	08:35
PB169904BSD	PB169904BSD	BN038038.D	10/07/2025	09:11
SSTDCCC0.4EC	SSTDCCC0.4	BN038039.D	10/07/2025	09:47

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3213

Client ID : SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038022.D

Time Analyzed: 23:32

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	8262	7.804	22968	10.61	12134	14.46
UPPER LIMIT	16524	8.304	45936	11.105	24268	14.962
LOWER LIMIT	4131	7.304	11484	10.105	6067	13.962
EPA SAMPLE NO.						
01 PB169904BS	9121	7.80	24908	10.61	11773	14.45
02 PB169904BSD	9176	7.80	24837	10.61	12022	14.45
03 VPB184-HYD-20250924	9188	7.80	24871	10.61	11299	14.46
04 BP-VPB-184-GW-340-342	8590	7.80	24886	10.61	12953	14.45
05 BP-VPB-184-GW-380-382	8865	7.80	26053	10.61	14244	14.46
06 BP-VPB-184-DUP-20250923	10013	7.80	28507	10.61	13798	14.45
07 BP-VPB-184-GW-420-422	9243	7.80	27657	10.61	15535	14.45
08 BP-VPB-184-EB-20250923	9567	7.80	28389	10.61	15544	14.46
09 PB169904BL	7850	7.80	20745	10.61	9107	14.46

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3213

Client ID: SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038022.D

Time Analyzed: 23:32

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	22733	17.21	13562	21.384	10530	23.703
UPPER LIMIT	45466	17.71	27124	21.884	21060	24.203
LOWER LIMIT	11366.5	16.71	6781	20.884	5265	23.203
EPA SAMPLE NO.						
01 PB169904BS	20442	17.21	10195	21.39	9225	23.71
02 PB169904BSD	21952	17.21	11724	21.39	9473	23.71
03 VPB184-HYD-20250924	19333	17.21	14413	21.39	10609	23.71
04 BP-VPB-184-GW-340-342	23191	17.21	14461	21.39	12966	23.71
05 BP-VPB-184-GW-380-382	27982	17.21	20322	21.38	15136	23.71
06 BP-VPB-184-DUP-20250923	22690	17.21	16816	21.39	17577	23.71
07 BP-VPB-184-GW-420-422	29744	17.20	17950	21.38	14042	23.70
08 BP-VPB-184-EB-20250923	28505	17.21	16926	21.39	14124	23.71
09 PB169904BL	15264	17.21	8024	21.38	7902	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB169904BL		SDG No.:	Q3213
Lab Sample ID:	PB169904BL		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
BN038023.D	1	09/26/25 13:15	10/07/25 00:08	PB169904

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	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		70%	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		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7850	7.804				
1146-65-2	Naphthalene-d8	20700	10.605				
15067-26-2	Acenaphthene-d10	9110	14.462				
1517-22-2	Phenanthrene-d10	15300	17.211				
1719-03-5	Chrysene-d12	8020	21.384				
1520-96-3	Perylene-d12	7900	23.706				

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:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB169904BS		SDG No.:	Q3213
Lab Sample ID:	PB169904BS		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
BN038037.D	1	09/26/25 13:15	10/07/25 08:35	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		69%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9120	7.804				
1146-65-2	Naphthalene-d8	24900	10.605				
15067-26-2	Acenaphthene-d10	11800	14.452				
1517-22-2	Phenanthrene-d10	20400	17.211				
1719-03-5	Chrysene-d12	10200	21.393				
1520-96-3	Perylene-d12	9230	23.712				

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:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB169904BSD		SDG No.:	Q3213
Lab Sample ID:	PB169904BSD		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
BN038038.D	1	09/26/25 13:15	10/07/25 09:11	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		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	0.28		30 - 150		71%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9180	7.804				
1146-65-2	Naphthalene-d8	24800	10.605				
15067-26-2	Acenaphthene-d10	12000	14.452				
1517-22-2	Phenanthrene-d10	22000	17.21				
1719-03-5	Chrysene-d12	11700	21.393				
1520-96-3	Perylene-d12	9470	23.709				

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG No.: Q3213

Instrument ID: BNA_N

Calibration Date(s): 09/23/2025 09/23/2025

Calibration Time(s): 12:13 15:51

LAB FILE ID:		RRF0.1 = BN037861.D			RRF0.2 = BN037862.D		RRF0.4 = BN037863.D	
		RRF0.8 = BN037864.D			RRF1.6 = BN037865.D		RRF3.2 = BN037866.D	
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.515	0.518	0.499	0.504	0.553	0.587	0.556	13.7
Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.006	17.6
2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.913	5.8
Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.199	7.2
Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.305	6.1
2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.638	4.4
2,4,6-Tribromophenol	0.148	0.142	0.135	0.139	0.163	0.184	0.152	12.2
Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.797	6.3
1,4-Dioxane		0.413	0.410	0.403	0.425	0.410	0.406	4.0

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
Lab Code: ACE SDG No.: Q3213
Instrument ID: BNA_N Calibration Date/Time: 10/06/2025 23:32
Lab File ID: BN038022.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	0.504		-9.4	20.0
Fluoranthene-d10	1.006	0.813		-19.2	20.0
2-Fluorophenol	0.913	0.764		-16.3	20.0
Phenol-d6	1.199	1.067		-11.0	20.0
Nitrobenzene-d5	0.305	0.290		-4.9	20.0
2-Fluorobiphenyl	1.638	1.579		-3.6	20.0
2,4,6-Tribromophenol	0.152	0.125		-17.8	20.0
Terphenyl-d14	0.797	0.905		13.6	20.0
1,4-Dioxane	0.406	0.372		-8.4	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3213</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>10/07/2025 09:47</u>
Lab File ID:	<u>BN038039.D</u>	Init. Calib. Date(s):	<u>09/23/2025 09/23/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>	Init. Calib. Time(s):	<u>12:13 15:51</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.515		-7.4	50.0
Fluoranthene-d10	1.006	0.820		-18.5	50.0
2-Fluorophenol	0.913	0.850		-6.9	50.0
Phenol-d6	1.199	1.108		-7.6	50.0
Nitrobenzene-d5	0.305	0.291		-4.6	50.0
2-Fluorobiphenyl	1.638	1.521		-7.1	50.0
2,4,6-Tribromophenol	0.152	0.117		-23.0	50.0
Terphenyl-d14	0.797	0.944		18.4	50.0
1,4-Dioxane	0.406	0.426		4.9	50.0

All other compounds must meet a minimum RRF of 0.010.