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LAB CHRONICLE

OrderID:	Q2881	**OrderDate:**	8/15/2025 10:55:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	J32

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2881-01	**RW8-SP100-20250814**	**Water**			**08/14/25**			**08/15/25**
			SVOC-SIMGroup1	8270-Modified		08/18/25	08/20/25	
Q2881-02	**RW8-SP303-20250814**	**Water**			**08/14/25**			**08/15/25**
			SVOC-SIMGroup1	8270-Modified		08/18/25	08/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2881

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**RW8-SP100-20250814**								
Q2881-01	RW8-SP100-20250814	WATER	1,4-Dioxane	0.070	J	0.07	0.2	0.2	ug/L
			Total Svoc :			**0.07**			
			Total Concentration:			**0.07**			

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/14/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/15/25
Client Sample ID:	RW8-SP100-20250814	SDG No.:	Q2881
Lab Sample ID:	Q2881-01	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
BN037623.D	1	08/18/25 08:41	08/20/25 07:13	PB169286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.070	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2130	7.717				
1146-65-2	Naphthalene-d8	4990	10.498				
15067-26-2	Acenaphthene-d10	2390	14.345				
1517-22-2	Phenanthrene-d10	5110	17.086				
1719-03-5	Chrysene-d12	4520	21.268				
1520-96-3	Perylene-d12	4090	23.499				

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:	08/14/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/15/25
Client Sample ID:	RW8-SP303-20250814	SDG No.:	Q2881
Lab Sample ID:	Q2881-02	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
BN037624.D	1	08/18/25 08:41	08/20/25 07:49	PB169286

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	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2200	7.71				
1146-65-2	Naphthalene-d8	5180	10.498				
15067-26-2	Acenaphthene-d10	2520	14.345				
1517-22-2	Phenanthrene-d10	5410	17.086				
1719-03-5	Chrysene-d12	4670	21.268				
1520-96-3	Perylene-d12	4150	23.502				

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.: Q2881

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB169286BL	PB169286BL	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
PB169286BS	PB169286BS	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.31	76		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.35	88		58	132
Q2842-04MS	MW-17B-55.5-08122025MS	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
Q2842-05MSD	MW-17B-55.5-08122025MSD	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
Q2881-01	RW8-SP100-20250814	2-Methylnaphthalene-d10	0.4	0.26	65		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
Q2881-02	RW8-SP303-20250814	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.43	107		58	132

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2881 **Analytical Method:** SW8270-Modified

Client: Tetra Tech NUS, Inc. **DataFile:** BN037605.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2842-04MS		**Client Sample ID:** MW-17B-55.5-08122025MS									
1,4-Dioxane	0.43	2.90	3.00	ug/L	23	*			70	130	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2881 **Analytical Method:** SW8270-Modified

Client: Tetra Tech NUS, Inc. **DataFile:** BN037606.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2842-05MSD		**Client Sample ID:** MW-17B-55.5-08122025MSD									
1,4-Dioxane	0.42	2.90	3.00	ug/L	24	*	4		70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2881 **Analytical Method:** 8270-Modified

Client: Tetra Tech NUS, Inc. **DataFile:** BN037630.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169286BS	1,4-Dioxane	0.4	0.30	ug/L	75				70	130	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169286BL

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q2881

Lab File ID: BN037619.D | Lab Sample ID: PB169286BL

Instrument ID: BNA_N | Date Extracted: 08/18/2025

Matrix: (soil/water) Water | Date Analyzed: 08/20/2025

Level: (low/med) LOW | Time Analyzed: 04:50

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169286BS	PB169286BS	BN037630.D	08/20/2025
MW-17B-55.5-08122025MS	Q2842-04MS	BN037605.D	08/19/2025
MW-17B-55.5-08122025MSD	Q2842-05MSD	BN037606.D	08/19/2025
RW8-SP100-20250814	Q2881-01	BN037623.D	08/20/2025
RW8-SP303-20250814	Q2881-02	BN037624.D	08/20/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q2881

Lab File ID: BN037576.D DFTPP Injection Date: 08/12/2025

Instrument ID: BNA_N DFTPP Injection Time: 15:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	39.9
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	7.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	14.2
442	Greater than 50% of mass 198	84.5
443	15.0 - 24.0% of mass 442	16.2 (19.2) 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	BN037578.D	08/12/2025	16:26
SSTDICC0.2	SSTDICC0.2	BN037579.D	08/12/2025	17:03
SSTDICCC0.4	SSTDICCC0.4	BN037580.D	08/12/2025	17:39
SSTDICC0.8	SSTDICC0.8	BN037581.D	08/12/2025	18:16
SSTDICC1.6	SSTDICC1.6	BN037582.D	08/12/2025	18:52
SSTDICC3.2	SSTDICC3.2	BN037583.D	08/12/2025	19:29
SSTDICC5.0	SSTDICC5.0	BN037584.D	08/12/2025	20:05

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG NO.: Q2881

Lab File ID: BN037599.D DFTPP Injection Date: 08/19/2025

Instrument ID: BNA_N DFTPP Injection Time: 10:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	35.9
70	Less than 2.0% of mass 69	0.2 (0.5) 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
441	Present, but less than mass 443	14.4
442	Greater than 50% of mass 198	97.7
443	15.0 - 24.0% of mass 442	17.9 (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	BN037600.D	08/19/2025	10:39
MW-17B-55.5-08122025MS	Q2842-04MS	BN037605.D	08/19/2025	13:40
MW-17B-55.5-08122025MSD	Q2842-05MSD	BN037606.D	08/19/2025	14:17
SSTDCCC0.4EC	SSTDCCC0.4	BN037616.D	08/19/2025	20:19

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance | Contract: TETR06

Lab Code: ACE | SDG NO.: Q2881

Lab File ID: BN037617.D | DFTPP Injection Date: 08/20/2025

Instrument ID: BNA_N | DFTPP Injection Time: 03:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	39.2
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	6.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	11.8
442	Greater than 50% of mass 198	78.3
443	15.0 - 24.0% of mass 442	14.9 (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
SSTDCCC0.4	SSTDCCC0.4	BN037618.D	08/20/2025	04:14
PB169286BL	PB169286BL	BN037619.D	08/20/2025	04:50
RW8-SP100-20250814	Q2881-01	BN037623.D	08/20/2025	07:13
RW8-SP303-20250814	Q2881-02	BN037624.D	08/20/2025	07:49
PB169286BS	PB169286BS	BN037630.D	08/20/2025	11:25
SSTDCCC0.4EC	SSTDCCC0.4	BN037631.D	08/20/2025	14:56

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q2881

Client ID : SSTDCCC0.4 Date Analyzed: 08/19/2025

Lab File ID: BN037600.D Time Analyzed: 10:39

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	2628	7.717	6457	10.50	3216	14.34
	UPPER LIMIT	5256	8.217	12914	10.998	6432	14.844
	LOWER LIMIT	1314	7.217	3228.5	9.998	1608	13.844
	EPA SAMPLE NO.						
01	MW-17B-55.5-08122025MS	2023	7.72	4765	10.50	2380	14.35
02	MW-17B-55.5-08122025MSD	2022	7.72	4839	10.50	2406	14.34

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.: Q2881

Client ID: SSTDCCC0.4 Date Analyzed: 08/19/2025

Lab File ID: BN037600.D Time Analyzed: 10:39

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	6293	17.086	5356	21.267	5379	23.504
	UPPER LIMIT	12586	17.586	10712	21.767	10758	24.004
	LOWER LIMIT	3146.5	16.586	2678	20.767	2689.5	23.004
	EPA SAMPLE NO.						
01	MW-17B-55.5-08122025MS	4922	17.09	4507	21.27	3909	23.51
02	MW-17B-55.5-08122025MSD	5009	17.09	4561	21.27	3935	23.50

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.: Q2881

Client ID : SSTDCCC0.4 Date Analyzed: 08/20/2025

Lab File ID: BN037618.D Time Analyzed: 04:14

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	2622	7.71	6166	10.50	3094	14.35
	UPPER LIMIT	5244	8.21	12332	10.998	6188	14.845
	LOWER LIMIT	1311	7.21	3083	9.998	1547	13.845
	EPA SAMPLE NO.						
01	RW8-SP100-20250814	2130	7.72	4994	10.50	2388	14.35
02	RW8-SP303-20250814	2203	7.71	5181	10.50	2518	14.35
03	PB169286BL	2323	7.71	5229	10.50	2344	14.35
04	PB169286BS	2389	7.71	5616	10.49	2629	14.35

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.: Q2881

Client ID: SSTDCCC0.4 Date Analyzed: 08/20/2025

Lab File ID: BN037618.D Time Analyzed: 04:14

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	6113	17.086	5494	21.268	5322	23.499
	UPPER LIMIT	12226	17.586	10988	21.768	10644	23.999
	LOWER LIMIT	3056.5	16.586	2747	20.768	2661	22.999
	EPA SAMPLE NO.						
01	RW8-SP100-20250814	5113	17.09	4521	21.27	4086	23.50
02	RW8-SP303-20250814	5410	17.09	4670	21.27	4150	23.50
03	PB169286BL	4466	17.09	3733	21.27	3552	23.50
04	PB169286BS	5040	17.09	4175	21.27	3780	23.50

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,
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169286BL	SDG No.:	Q2881
Lab Sample ID:	PB169286BL	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
BN037619.D	1	08/18/25 08:41	08/20/25 04:50	PB169286

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		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2320	7.71				
1146-65-2	Naphthalene-d8	5230	10.498				
15067-26-2	Acenaphthene-d10	2340	14.345				
1517-22-2	Phenanthrene-d10	4470	17.087				
1719-03-5	Chrysene-d12	3730	21.268				
1520-96-3	Perylene-d12	3550	23.499				

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

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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:	PB169286BS	SDG No.:	Q2881
Lab Sample ID:	PB169286BS	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
BN037630.D	1	08/18/25 08:41	08/20/25 11:25	PB169286

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	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 - 150		76%	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	0.35		58 - 132		88%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2390	7.71				
1146-65-2	Naphthalene-d8	5620	10.487				
15067-26-2	Acenaphthene-d10	2630	14.345				
1517-22-2	Phenanthrene-d10	5040	17.086				
1719-03-5	Chrysene-d12	4180	21.268				
1520-96-3	Perylene-d12	3780	23.502				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/12/25
Client Sample ID:	MW-17B-55.5-08122025MS	SDG No.:	Q2881
Lab Sample ID:	Q2842-04MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	940 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
BN037605.D	1	08/18/25 08:41	08/19/25 13:40	PB169286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.00		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2020	7.717				
1146-65-2	Naphthalene-d8	4770	10.498				
15067-26-2	Acenaphthene-d10	2380	14.345				
1517-22-2	Phenanthrene-d10	4920	17.087				
1719-03-5	Chrysene-d12	4510	21.268				
1520-96-3	Perylene-d12	3910	23.505				

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/12/25
Client Sample ID:	MW-17B-55.5-08122025MSD	SDG No.:	Q2881
Lab Sample ID:	Q2842-05MSD	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
BN037606.D	1	08/18/25 08:41	08/19/25 14:17	PB169286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.00		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2020	7.717				
1146-65-2	Naphthalene-d8	4840	10.498				
15067-26-2	Acenaphthene-d10	2410	14.344				
1517-22-2	Phenanthrene-d10	5010	17.086				
1719-03-5	Chrysene-d12	4560	21.267				
1520-96-3	Perylene-d12	3940	23.504				

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-BN081225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 13 05:00:58 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037578.D 0.2 =BN037579.D 0.4 =BN037580.D 0.8 =BN037581.D 1.6 =BN037582.D 3.2 =BN037583.D 5 =BN037584.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	0.395	0.368	0.397	0.375	0.348	0.383		6.08
3)		n-Nitrosodimet...	0.471	0.488	0.471	0.493	0.503	0.508	0.489		3.19
4)	S	2-Fluorophenol	0.922	0.945	0.888	0.823	0.886	0.906	0.977	0.907	5.41
5)	S	Phenol-d6	1.045	1.051	1.044	0.983	1.198	1.117	1.201	1.091	7.66
6)		bis(2-Chloroet...	0.935	0.987	0.976	0.936	1.020	1.008	1.022	0.983	3.75
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.270	0.257	0.262	0.264	0.292	0.301	0.326	0.282	9.03
9)		Naphthalene	1.044	1.050	1.037	1.012	1.089	1.096	1.127	1.065	3.78
10)		Hexachlorobuta...	0.252	0.258	0.262	0.253	0.267	0.264	0.265	0.260	2.22
11)	SURR	2-Methylnaphth...	0.488	0.492	0.508	0.493	0.543	0.578	0.705	0.544	14.39
12)		2-Methylnaphth...	0.589	0.631	0.635	0.629	0.701	0.731	0.760	0.668	9.39
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.139	0.149	0.156	0.160	0.185	0.203	0.234	0.175	19.39
15)	S	2-Fluorobiphenyl	2.226	2.243	2.300	2.251	2.341	2.391	2.440	2.313	3.50
16)		Acenaphthylene	1.740	1.760	1.710	1.653	1.850	1.858	1.980	1.793	6.15
17)		Acenaphthene	1.144	1.150	1.172	1.154	1.283	1.286	1.348	1.220	6.86
18)		Fluorene	1.466	1.510	1.524	1.521	1.686	1.693	1.770	1.596	7.38
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.042	0.046	0.047	0.061	0.070		0.053		22.37
21)		4-Bromophenyl-...	0.226	0.236	0.234	0.237	0.265	0.271	0.292	0.251	9.77
22)		Hexachlorobenzene	0.360	0.360	0.356	0.332	0.364	0.354	0.370	0.356	3.37
23)		Atrazine	0.127	0.126	0.130	0.134	0.160	0.176		0.142	14.76
24)		Pentachlorophenol	0.108	0.113	0.113	0.139	0.152		0.125		15.36
25)		Phenanthrene	1.146	1.162	1.170	1.138	1.281	1.269	1.347	1.216	6.72
26)		Anthracene	0.950	0.985	0.995	0.988	1.145	1.186	1.286	1.077	11.93
27)	SURR	Fluoranthene-d10	0.932	0.966	0.954	0.935	1.050	1.110	1.419	1.052	16.61
28)		Fluoranthene	1.241	1.264	1.299	1.291	1.503	1.533	1.648	1.397	11.53
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.539	1.486	1.464	1.403	1.502	1.520	1.552	1.495	3.38
31)	S	Terphenyl-d14	0.814	0.801	0.796	0.763	0.833	0.853	0.901	0.823	5.45
32)		Benzo(a)anthra...	1.266	1.275	1.263	1.253	1.351	1.458	1.487	1.336	7.40
33)		Chrysene	1.547	1.515	1.433	1.379	1.511	1.489	1.551	1.489	4.21
34)		Bis(2-ethylhex...	0.518	0.522	0.483	0.522	0.593	0.671	0.551		12.47
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN081225.M

36)		Indeno(1,2,3-c...	1.446	1.462	1.612	1.568	1.816	1.883	2.011	1.686	13.01
37)		Benzo(b)fluora...	1.351	1.375	1.338	1.432	1.615	1.674	1.825	1.516	12.52
38)		Benzo(k)fluora...	1.597	1.580	1.651	1.628	1.821	1.797	1.898	1.710	7.36
39)	C	Benzo(a)pyrene	1.146	1.136	1.149	1.157	1.322	1.382	1.508	1.257	11.77
40)		Dibenzo(a,h)an...	1.023	1.118	1.222	1.215	1.439	1.516	1.621	1.308	16.85
41)		Benzo(g,h,i)pe...	1.207	1.274	1.262	1.261	1.467	1.532	1.643	1.378	12.17

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06

Lab Code: ACE SDG No.: Q2881

Instrument ID: BNA_N Calibration Date/Time: 08/19/2025 10:39

Lab File ID: BN037600.D Init. Calib. Date(s): 08/12/2025 08/12/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.498		-8.5	20.0
Fluoranthene-d10	1.052	0.957		-9.0	20.0
2-Fluorophenol	0.907	0.907		0.0	20.0
Phenol-d6	1.091	1.078		-1.2	20.0
Nitrobenzene-d5	0.282	0.275		-2.5	20.0
2-Fluorobiphenyl	2.313	2.186		-5.5	20.0
2,4,6-Tribromophenol	0.175	0.169		-3.4	20.0
Terphenyl-d14	0.823	0.796		-3.3	20.0
1,4-Dioxane	0.383	0.406		6.0	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.: Q2881

Instrument ID: BNA_N Calibration Date/Time: 08/19/2025 20:19

Lab File ID: BN037616.D Init. Calib. Date(s): 08/12/2025 08/12/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:26 20:05

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.508		-6.6	50.0
Fluoranthene-d10	1.052	0.969		-7.9	50.0
2-Fluorophenol	0.907	0.927		2.2	50.0
Phenol-d6	1.091	1.101		0.9	50.0
Nitrobenzene-d5	0.282	0.270		-4.3	50.0
2-Fluorobiphenyl	2.313	2.275		-1.6	50.0
2,4,6-Tribromophenol	0.175	0.174		-0.6	50.0
Terphenyl-d14	0.823	0.818		-0.6	50.0
1,4-Dioxane	0.383	0.398		3.9	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.: Q2881

Instrument ID: BNA_N Calibration Date/Time: 08/20/2025 04:14

Lab File ID: BN037618.D Init. Calib. Date(s): 08/12/2025 08/12/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.498		-8.5	20.0
Fluoranthene-d10	1.052	0.951		-9.6	20.0
2-Fluorophenol	0.907	0.875		-3.5	20.0
Phenol-d6	1.091	1.045		-4.2	20.0
Nitrobenzene-d5	0.282	0.281		-0.4	20.0
2-Fluorobiphenyl	2.313	2.246		-2.9	20.0
2,4,6-Tribromophenol	0.175	0.175		0.0	20.0
Terphenyl-d14	0.823	0.793		-3.6	20.0
1,4-Dioxane	0.383	0.380		-0.8	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.: Q2881

Instrument ID: BNA_N Calibration Date/Time: 08/20/2025 14:56

Lab File ID: BN037631.D Init. Calib. Date(s): 08/12/2025 08/12/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:26 20:05

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.491		-9.7	50.0
Fluoranthene-d10	1.052	0.944		-10.3	50.0
2-Fluorophenol	0.907	0.853		-6.0	50.0
Phenol-d6	1.091	0.982		-10.0	50.0
Nitrobenzene-d5	0.282	0.275		-2.5	50.0
2-Fluorobiphenyl	2.313	2.157		-6.7	50.0
2,4,6-Tribromophenol	0.175	0.172		-1.7	50.0
Terphenyl-d14	0.823	0.717		-12.9	50.0
1,4-Dioxane	0.383	0.377		-1.6	50.0

All other compounds must meet a minimum RRF of 0.010.