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

ANALYTICAL RESULTS SUMMARY

SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q2162

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2162

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q2162-01	BP-VPB-182-GW-580-582
Q2162-02	BP-VPB-182-TB-20250527
Q2162-03	BP-VPB-182-GW-580-582
Q2162-04	BP-VPB-182-GW-600-602
Q2162-05	BP-VPB-182-GW-600-602MS
Q2162-06	BP-VPB-182-GW-600-602MSD
Q2162-07	BP-VPB-182-GW-620-622
Q2162-08	BP-VPB-182-GW-640-642
Q2162-09	BP-VPB-182-DUP-20250528
Q2162-10	BP-VPB-182-EB-20250529

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____ Date: 6/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager # Ernie Wu
Order ID # Q2162
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 05/29/2025.
9 Water samples were received on 05/29/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.

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VIAL A and B combined to run sample # 04, 05, 06 and 08 as both having much sediment and not possible to run separately.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager: Ernie Wu
Order ID # Q2162
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 05/29/2025.
9 Water samples were received on 05/29/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for BP-VPB-182-GW-580-582 [2-Fluorobiphenyl - 44%, Fluoranthene-d10 - 22% and Terphenyl-d14 - 29%],due to muddy matrix therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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Samples # BP-VPB-182-GW-580-582, BP-VPB-182-GW-620-622 and BP-VPB-182-DUP-20250528 were received with limited volume.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel.
908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2162

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 06/07/2025

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LAB CHRONICLE

OrderID:	Q2162	**OrderDate:**	5/30/2025 11:50:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2162-01	**BP-VPB-182-GW-580-582**	**SOIL**			**05/27/25**			**05/29/25**
			VOCMS Group1	8260D			06/03/25	
Q2162-02	**BP-VPB-182-TB-20250527**	**Water**			**05/27/25**			**05/29/25**
			VOCMS Group1	8260-Low			05/30/25	
Q2162-04	**BP-VPB-182-GW-600-602**	**Water**			**05/28/25**			**05/29/25**
			VOCMS Group1	8260-Low			05/30/25	
Q2162-07	**BP-VPB-182-GW-620-622**	**Water**			**05/28/25**			**05/29/25**
			VOCMS Group1	8260-Low			05/30/25	
Q2162-08	**BP-VPB-182-GW-640-642**	**Water**			**05/29/25**			**05/29/25**
			VOCMS Group1	8260-Low			05/30/25	
Q2162-10	**BP-VPB-182-EB-20250529**	**Water**			**05/29/25**			**05/29/25**
			VOCMS Group1	8260-Low			05/30/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**BP-VPB-182-GW-600-602**								
Q2162-04	BP-VPB-182-GW-6	Water	Acetone	12.2		1.50	3.80	5.00	ug/L
			Total Voc :	12.2					
			Total Concentration:	12.2					
Client ID:	**BP-VPB-182-GW-620-622**								
Q2162-07	BP-VPB-182-GW-6	Water	Acetone	12.9		1.50	3.80	5.00	ug/L
			Total Voc :	12.9					
			Total Concentration:	12.9					
Client ID:	**BP-VPB-182-GW-640-642**								
Q2162-08	BP-VPB-182-GW-6	Water	Acetone	28.7		1.50	3.80	5.00	ug/L
			Total Voc :	28.7					
			Total Concentration:	28.7					
Client ID:	**BP-VPB-182-EB-20250529**								
Q2162-10	BP-VPB-182-EB-2(	Water	Acetone	110		1.50	3.80	5.00	ug/L
Q2162-10	BP-VPB-182-EB-2(	Water	Methylene Chloride	2.30		0.28	0.50	1.00	ug/L
Q2162-10	BP-VPB-182-EB-2(	Water	2-Butanone	15.1		0.98	2.50	5.00	ug/L
			Total Voc :	127					
			Total Concentration:	127					

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/27/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-580-582	SDG No.:	Q2162
Lab Sample ID:	Q2162-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	9.3
Sample Wt/Vol:	4.36 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022524.D	1		06/03/25 15:48	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	30.8	U	14.1	30.8	61.7	ug/Kg
75-01-4	Vinyl Chloride	30.8	U	9.70	30.8	61.7	ug/Kg
74-83-9	Bromomethane	49.3	U	13.2	49.3	61.7	ug/Kg
75-00-3	Chloroethane	30.8	U	15.5	30.8	61.7	ug/Kg
75-69-4	Trichlorofluoromethane	49.3	U	14.9	49.3	61.7	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	30.8	U	13.1	30.8	61.7	ug/Kg
75-35-4	1,1-Dichloroethene	30.8	U	12.3	30.8	61.7	ug/Kg
67-64-1	Acetone	250	U	58.4	250	310	ug/Kg
75-15-0	Carbon Disulfide	49.3	U	13.1	49.3	61.7	ug/Kg
1634-04-4	Methyl tert-butyl Ether	30.8	U	9.00	30.8	61.7	ug/Kg
75-09-2	Methylene Chloride	98.6	U	43.5	98.6	120	ug/Kg
156-60-5	trans-1,2-Dichloroethene	30.8	U	10.6	30.8	61.7	ug/Kg
75-34-3	1,1-Dichloroethane	30.8	U	9.90	30.8	61.7	ug/Kg
78-93-3	2-Butanone	250	U	80.6	250	310	ug/Kg
56-23-5	Carbon Tetrachloride	30.8	U	12.0	30.8	61.7	ug/Kg
156-59-2	cis-1,2-Dichloroethene	30.8	U	9.20	30.8	61.7	ug/Kg
67-66-3	Chloroform	49.3	U	10.4	49.3	61.7	ug/Kg
71-55-6	1,1,1-Trichloroethane	30.8	U	11.5	30.8	61.7	ug/Kg
108-87-2	Methylcyclohexane	30.8	U	11.2	30.8	61.7	ug/Kg
71-43-2	Benzene	30.8	U	9.70	30.8	61.7	ug/Kg
107-06-2	1,2-Dichloroethane	30.8	U	9.70	30.8	61.7	ug/Kg
79-01-6	Trichloroethene	30.8	U	10.0	30.8	61.7	ug/Kg
78-87-5	1,2-Dichloropropane	30.8	U	11.2	30.8	61.7	ug/Kg
75-27-4	Bromodichloromethane	30.8	U	9.60	30.8	61.7	ug/Kg
108-10-1	4-Methyl-2-Pentanone	150	U	44.1	150	310	ug/Kg
108-88-3	Toluene	30.8	U	9.60	30.8	61.7	ug/Kg
10061-02-6	t-1,3-Dichloropropene	30.8	U	8.00	30.8	61.7	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	30.8	U	7.60	30.8	61.7	ug/Kg
79-00-5	1,1,2-Trichloroethane	30.8	U	11.3	30.8	61.7	ug/Kg
591-78-6	2-Hexanone	150	U	45.5	150	310	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/27/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-580-582	SDG No.:	Q2162
Lab Sample ID:	Q2162-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	9.3
Sample Wt/Vol:	4.36 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022524.D	1		06/03/25 15:48	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	30.8	U	10.7	30.8	61.7	ug/Kg
127-18-4	Tetrachloroethene	30.8	U	12.9	30.8	61.7	ug/Kg
108-90-7	Chlorobenzene	30.8	U	11.2	30.8	61.7	ug/Kg
100-41-4	Ethyl Benzene	30.8	U	8.30	30.8	61.7	ug/Kg
179601-23-1	m/p-Xylenes	61.7	U	15.3	61.7	120	ug/Kg
95-47-6	o-Xylene	30.8	U	10.1	30.8	61.7	ug/Kg
100-42-5	Styrene	30.8	U	8.80	30.8	61.7	ug/Kg
75-25-2	Bromoform	30.8	U	10.6	30.8	61.7	ug/Kg
98-82-8	Isopropylbenzene	30.8	U	9.60	30.8	61.7	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	30.8	U	14.9	30.8	61.7	ug/Kg
541-73-1	1,3-Dichlorobenzene	30.8	U	21.1	30.8	61.7	ug/Kg
106-46-7	1,4-Dichlorobenzene	30.8	U	19.2	30.8	61.7	ug/Kg
95-50-1	1,2-Dichlorobenzene	30.8	U	17.9	30.8	61.7	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.0		71 - 136		106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		78 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	49.9		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		79 - 119		89%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	263000	7.707				
540-36-3	1,4-Difluorobenzene	483000	8.61				
3114-55-4	Chlorobenzene-d5	395000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	147000	13.347				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/27/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-580-582	SDG No.:	Q2162
Lab Sample ID:	Q2162-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	9.3
Sample Wt/Vol:	4.36 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022524.D	1		06/03/25 15:48	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)

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:	05/27/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-TB-20250527	SDG No.:	Q2162
Lab Sample ID:	Q2162-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046421.D	1		05/30/25 15:02	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/27/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-TB-20250527	SDG No.:	Q2162
Lab Sample ID:	Q2162-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046421.D	1		05/30/25 15:02	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.5		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.3		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65800	5.543				
540-36-3	1,4-Difluorobenzene	131000	6.757				
3114-55-4	Chlorobenzene-d5	124000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	54100	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/27/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-TB-20250527	SDG No.:	Q2162
Lab Sample ID:	Q2162-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046421.D	1		05/30/25 15:02	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-600-602	SDG No.:	Q2162
Lab Sample ID:	Q2162-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046428.D	1		05/30/25 17:46	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	12.2		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-600-602	SDG No.:	Q2162
Lab Sample ID:	Q2162-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046428.D	1		05/30/25 17:46	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.2		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	49.0		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	67200	5.55				
540-36-3	1,4-Difluorobenzene	137000	6.757				
3114-55-4	Chlorobenzene-d5	124000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	52200	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-600-602	SDG No.:	Q2162
Lab Sample ID:	Q2162-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046428.D	1		05/30/25 17:46	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-620-622	SDG No.:	Q2162
Lab Sample ID:	Q2162-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046423.D	1		05/30/25 15:49	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	12.9		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-620-622	SDG No.:	Q2162
Lab Sample ID:	Q2162-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046423.D	1		05/30/25 15:49	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.1		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	49.8		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	60200	5.55				
540-36-3	1,4-Difluorobenzene	121000	6.757				
3114-55-4	Chlorobenzene-d5	111000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	45100	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-620-622	SDG No.:	Q2162
Lab Sample ID:	Q2162-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046423.D	1		05/30/25 15:49	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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:	05/29/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-640-642	SDG No.:	Q2162
Lab Sample ID:	Q2162-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046424.D	1		05/30/25 16:12	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	28.7		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/29/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-640-642	SDG No.:	Q2162
Lab Sample ID:	Q2162-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046424.D	1		05/30/25 16:12	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.8		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	58100	5.55				
540-36-3	1,4-Difluorobenzene	118000	6.757				
3114-55-4	Chlorobenzene-d5	112000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	47400	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/29/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-640-642	SDG No.:	Q2162
Lab Sample ID:	Q2162-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046424.D	1		05/30/25 16:12	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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:	05/29/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-EB-20250529	SDG No.:	Q2162
Lab Sample ID:	Q2162-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046427.D	1		05/30/25 17:23	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	110		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	2.30		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	15.1		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/29/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-EB-20250529	SDG No.:	Q2162
Lab Sample ID:	Q2162-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046427.D	1		05/30/25 17:23	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.7		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	61500	5.55				
540-36-3	1,4-Difluorobenzene	125000	6.757				
3114-55-4	Chlorobenzene-d5	118000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	46500	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/29/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-EB-20250529	SDG No.:	Q2162
Lab Sample ID:	Q2162-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046427.D	1		05/30/25 17:23	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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,
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Surrogate Summary

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2162-01	BP-VPB-182-GW-580-582	1,2-Dichloroethane-d4	50	53.0	106	71	136
		Dibromofluoromethane	50	50.7	101	78	119
		Toluene-d8	50	49.9	100	85	116
		4-Bromofluorobenzene	50	44.6	89	79	119
VY0603SBL01	VY0603SBL01	1,2-Dichloroethane-d4	50	53.5	107	71	136
		Dibromofluoromethane	50	50.9	102	78	119
		Toluene-d8	50	49.9	100	85	116
		4-Bromofluorobenzene	50	42.0	84	79	119
VY0603SBS01	VY0603SBS01	1,2-Dichloroethane-d4	50	50.0	100	71	136
		Dibromofluoromethane	50	51.0	102	78	119
		Toluene-d8	50	51.5	103	85	116
		4-Bromofluorobenzene	50	49.0	98	79	119
VY0603SBSD01	VY0603SBSD01	1,2-Dichloroethane-d4	50	50.7	101	71	136
		Dibromofluoromethane	50	51.5	103	78	119
		Toluene-d8	50	52.6	105	85	116
		4-Bromofluorobenzene	50	50.1	100	79	119

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Surrogate Summary

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2162-02	BP-VPB-182-TB-20250527	1,2-Dichloroethane-d4	50	54.5	109	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	50.3	101	89	112
		4-Bromofluorobenzene	50	51.4	103	85	114
Q2162-04	BP-VPB-182-GW-600-602	1,2-Dichloroethane-d4	50	55.3	110	81	118
		Dibromofluoromethane	50	51.4	103	80	119
		Toluene-d8	50	49.0	98	89	112
		4-Bromofluorobenzene	50	49.3	99	85	114
Q2162-05MS	BP-VPB-182-GW-600-602MS	1,2-Dichloroethane-d4	50	51.3	103	81	118
		Dibromofluoromethane	50	50.5	101	80	119
		Toluene-d8	50	47.9	96	89	112
		4-Bromofluorobenzene	50	50.6	101	85	114
Q2162-06MSD	BP-VPB-182-GW-600-602MSD	1,2-Dichloroethane-d4	50	51.7	103	81	118
		Dibromofluoromethane	50	51.9	104	80	119
		Toluene-d8	50	48.8	98	89	112
		4-Bromofluorobenzene	50	52.3	105	85	114
Q2162-07	BP-VPB-182-GW-620-622	1,2-Dichloroethane-d4	50	54.1	108	81	118
		Dibromofluoromethane	50	50.5	101	80	119
		Toluene-d8	50	49.8	100	89	112
		4-Bromofluorobenzene	50	48.5	97	85	114
Q2162-08	BP-VPB-182-GW-640-642	1,2-Dichloroethane-d4	50	54.8	110	81	118
		Dibromofluoromethane	50	51.6	103	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	50.7	101	85	114
Q2162-10	BP-VPB-182-EB-20250529	1,2-Dichloroethane-d4	50	54.7	109	81	118
		Dibromofluoromethane	50	51.2	102	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	49.5	99	85	114
VX0530WBL01	VX0530WBL01	1,2-Dichloroethane-d4	50	54.0	108	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	50.8	102	85	114
VX0530WBS01	VX0530WBS01	1,2-Dichloroethane-d4	50	49.9	100	81	118
		Dibromofluoromethane	50	50.4	101	80	119
		Toluene-d8	50	47.8	96	89	112
		4-Bromofluorobenzene	50	49.4	99	85	114

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q2162-05MS		**Client Sample ID : BP-VPB-182-GW-600-602MS**						**Datafile :** VX046429.D			
Chloromethane	50	0	53.2	ug/L	106				50	139	
Vinyl chloride	50	0	51.7	ug/L	103				58	137	
Bromomethane	50	0	50.6	ug/L	101				53	141	
Chloroethane	50	0	53.7	ug/L	107				60	138	
Trichlorofluoromethane	50	0	53.2	ug/L	106				65	141	
1,1,2-Trichlorotrifluoroethane	50	0	54.4	ug/L	109				70	136	
1,1-Dichloroethene	50	0	53.6	ug/L	107				71	131	
Acetone	250	12.2	310	ug/L	119				39	160	
Carbon disulfide	50	0	48.6	ug/L	97				64	133	
Methyl tert-butyl Ether	50	0	57.2	ug/L	114				71	124	
Methylene Chloride	50	0	52.9	ug/L	106				74	124	
trans-1,2-Dichloroethene	50	0	54.0	ug/L	108				75	124	
1,1-Dichloroethane	50	0	57.2	ug/L	114				77	125	
2-Butanone	250	0	310	ug/L	124				56	143	
Carbon Tetrachloride	50	0	52.3	ug/L	105				72	136	
cis-1,2-Dichloroethene	50	0	55.9	ug/L	112				78	123	
Chloroform	50	0	57.4	ug/L	115				79	124	
1,1,1-Trichloroethane	50	0	55.7	ug/L	111				74	131	
Methylcyclohexane	50	0	50.7	ug/L	101				72	132	
Benzene	50	0	54.3	ug/L	109				79	120	
1,2-Dichloroethane	50	0	55.3	ug/L	111				73	128	
Trichloroethene	50	0	53.2	ug/L	106				79	123	
1,2-Dichloropropane	50	0	56.3	ug/L	113				78	122	
Bromodichloromethane	50	0	56.5	ug/L	113				79	125	
4-Methyl-2-Pentanone	250	0	310	ug/L	124				67	130	
Toluene	50	0	54.3	ug/L	109				80	121	
t-1,3-Dichloropropene	50	0	54.0	ug/L	108				73	127	
cis-1,3-Dichloropropene	50	0	54.1	ug/L	108				75	124	
1,1,2-Trichloroethane	50	0	56.4	ug/L	113				80	119	
2-Hexanone	250	0	320	ug/L	128				57	139	
Dibromochloromethane	50	0	57.3	ug/L	115				74	126	
Tetrachloroethene	50	0	54.4	ug/L	109				74	129	
Chlorobenzene	50	0	53.1	ug/L	106				82	118	
Ethyl Benzene	50	0	54.9	ug/L	110				79	121	
m/p-Xylenes	100	0	110	ug/L	110				80	121	
o-Xylene	50	0	56.3	ug/L	113				78	122	
Styrene	50	0	56.9	ug/L	114				78	123	
Bromoform	50	0	56.8	ug/L	114				66	130	
Isopropylbenzene	50	0	53.4	ug/L	107				72	131	
1,1,2,2-Tetrachloroethane	50	0	52.4	ug/L	105				71	121	
1,3-Dichlorobenzene	50	0	51.9	ug/L	104				80	119	
1,4-Dichlorobenzene	50	0	50.7	ug/L	101				79	118	
1,2-Dichlorobenzene	50	0	52.9	ug/L	106				80	119	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q2162-06MSD	**Client Sample ID : BP-VPB-182-GW-600-602MSD**							**Datafile :** VX046430.D			
Chloromethane	50	0	51.9	ug/L	104		2		50	139	20
Vinyl chloride	50	0	50.8	ug/L	102		2		58	137	20
Bromomethane	50	0	51.7	ug/L	103		2		53	141	20
Chloroethane	50	0	54.6	ug/L	109		2		60	138	20
Trichlorofluoromethane	50	0	53.5	ug/L	107		1		65	141	20
1,1,2-Trichlorotrifluoroethane	50	0	54.3	ug/L	109		0		70	136	20
1,1-Dichloroethene	50	0	54.0	ug/L	108		1		71	131	20
Acetone	250	12.2	310	ug/L	119		0		39	160	20
Carbon disulfide	50	0	50.0	ug/L	100		3		64	133	20
Methyl tert-butyl Ether	50	0	57.8	ug/L	116		1		71	124	20
Methylene Chloride	50	0	53.2	ug/L	106		1		74	124	20
trans-1,2-Dichloroethene	50	0	54.8	ug/L	110		1		75	124	20
1,1-Dichloroethane	50	0	57.9	ug/L	116		1		77	125	20
2-Butanone	250	0	310	ug/L	124		0		56	143	20
Carbon Tetrachloride	50	0	53.3	ug/L	107		2		72	136	20
cis-1,2-Dichloroethene	50	0	55.4	ug/L	111		1		78	123	20
Chloroform	50	0	57.4	ug/L	115		0		79	124	20
1,1,1-Trichloroethane	50	0	57.1	ug/L	114		2		74	131	20
Methylcyclohexane	50	0	50.5	ug/L	101		0		72	132	20
Benzene	50	0	54.5	ug/L	109		0		79	120	20
1,2-Dichloroethane	50	0	55.0	ug/L	110		1		73	128	20
Trichloroethene	50	0	53.5	ug/L	107		1		79	123	20
1,2-Dichloropropane	50	0	57.4	ug/L	115		2		78	122	20
Bromodichloromethane	50	0	57.0	ug/L	114		1		79	125	20
4-Methyl-2-Pentanone	250	0	310	ug/L	124		0		67	130	20
Toluene	50	0	54.9	ug/L	110		1		80	121	20
t-1,3-Dichloropropene	50	0	55.2	ug/L	110		2		73	127	20
cis-1,3-Dichloropropene	50	0	55.3	ug/L	111		2		75	124	20
1,1,2-Trichloroethane	50	0	56.8	ug/L	114		1		80	119	20
2-Hexanone	250	0	320	ug/L	128		0		57	139	20
Dibromochloromethane	50	0	58.7	ug/L	117		2		74	126	20
Tetrachloroethene	50	0	54.1	ug/L	108		1		74	129	20
Chlorobenzene	50	0	53.7	ug/L	107		1		82	118	20
Ethyl Benzene	50	0	56.1	ug/L	112		2		79	121	20
m/p-Xylenes	100	0	110	ug/L	110		0		80	121	20
o-Xylene	50	0	56.5	ug/L	113		0		78	122	20
Styrene	50	0	58.2	ug/L	116		2		78	123	20
Bromoform	50	0	57.2	ug/L	114		1		66	130	20
Isopropylbenzene	50	0	56.1	ug/L	112		5		72	131	20
1,1,2,2-Tetrachloroethane	50	0	54.8	ug/L	110		4		71	121	20
1,3-Dichlorobenzene	50	0	54.7	ug/L	109		5		80	119	20
1,4-Dichlorobenzene	50	0	53.4	ug/L	107		5		79	118	20
1,2-Dichlorobenzene	50	0	55.4	ug/L	111		5		80	119	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VX046412.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0530WBS01	Chloromethane	20	16.7	ug/L	84			50	139	
	Vinyl chloride	20	16.5	ug/L	83			58	137	
	Bromomethane	20	17.1	ug/L	86			53	141	
	Chloroethane	20	18.3	ug/L	92			60	138	
	Trichlorofluoromethane	20	18.4	ug/L	92			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.0	ug/L	95			70	136	
	1,1-Dichloroethene	20	17.9	ug/L	90			71	131	
	Acetone	100	110	ug/L	110			39	160	
	Carbon disulfide	20	14.2	ug/L	71			64	133	
	Methyl tert-butyl Ether	20	19.9	ug/L	100			71	124	
	Methylene Chloride	20	18.2	ug/L	91			74	124	
	trans-1,2-Dichloroethene	20	18.0	ug/L	90			75	124	
	1,1-Dichloroethane	20	19.6	ug/L	98			77	125	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	18.7	ug/L	94			72	136	
	cis-1,2-Dichloroethene	20	19.3	ug/L	97			78	123	
	Chloroform	20	20.5	ug/L	103			79	124	
	1,1,1-Trichloroethane	20	19.4	ug/L	97			74	131	
	Methylcyclohexane	20	16.9	ug/L	85			72	132	
	Benzene	20	19.3	ug/L	97			79	120	
	1,2-Dichloroethane	20	19.9	ug/L	100			73	128	
	Trichloroethene	20	18.8	ug/L	94			79	123	
	1,2-Dichloropropane	20	20.6	ug/L	103			78	122	
	Bromodichloromethane	20	20.1	ug/L	101			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	19.2	ug/L	96			80	121	
	t-1,3-Dichloropropene	20	18.7	ug/L	94			73	127	
	cis-1,3-Dichloropropene	20	19.4	ug/L	97			75	124	
	1,1,2-Trichloroethane	20	20.6	ug/L	103			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	20.8	ug/L	104			74	126	
	Tetrachloroethene	20	18.4	ug/L	92			74	129	
	Chlorobenzene	20	19.1	ug/L	96			82	118	
	Ethyl Benzene	20	19.4	ug/L	97			79	121	
	m/p-Xylenes	40	38.0	ug/L	95			80	121	
	o-Xylene	20	19.7	ug/L	99			78	122	
	Styrene	20	19.8	ug/L	99			78	123	
	Bromoform	20	19.6	ug/L	98			66	130	
	Isopropylbenzene	20	19.8	ug/L	99			72	131	
	1,1,2,2-Tetrachloroethane	20	19.7	ug/L	99			71	121	
	1,3-Dichlorobenzene	20	19.1	ug/L	96			80	119	
	1,4-Dichlorobenzene	20	18.7	ug/L	94			79	118	
	1,2-Dichlorobenzene	20	19.9	ug/L	100			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D **Datafile :** VY022513.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0603SBS01	Chloromethane	20	18.4	ug/Kg	92			50	136	
	Vinyl chloride	20	20.8	ug/Kg	104			56	135	
	Bromomethane	20	20.2	ug/Kg	101			53	143	
	Chloroethane	20	21.3	ug/Kg	106			59	139	
	Trichlorofluoromethane	20	22.2	ug/Kg	111			62	140	
	1,1,2-Trichlorotrifluoroethane	20	21.2	ug/Kg	106			66	136	
	1,1-Dichloroethene	20	21.2	ug/Kg	106			70	131	
	Acetone	100	140	ug/Kg	140			36	164	
	Carbon disulfide	20	20.8	ug/Kg	104			63	132	
	Methyl tert-butyl Ether	20	20.3	ug/Kg	102			73	125	
	Methylene Chloride	20	18.5	ug/Kg	93			70	128	
	trans-1,2-Dichloroethene	20	20.6	ug/Kg	103			74	125	
	1,1-Dichloroethane	20	21.2	ug/Kg	106			76	125	
	2-Butanone	100	120	ug/Kg	120			51	148	
	Carbon Tetrachloride	20	20.2	ug/Kg	101			70	135	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			77	123	
	Chloroform	20	21.1	ug/Kg	106			78	123	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			73	130	
	Methylcyclohexane	20	19.8	ug/Kg	99			66	133	
	Benzene	20	20.7	ug/Kg	104			77	121	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			73	128	
	Trichloroethene	20	21.3	ug/Kg	106			77	123	
	1,2-Dichloropropane	20	20.9	ug/Kg	104			76	123	
	Bromodichloromethane	20	20.8	ug/Kg	104			75	127	
	4-Methyl-2-Pentanone	100	96.0	ug/Kg	96			65	135	
	Toluene	20	20.1	ug/Kg	101			77	121	
	t-1,3-Dichloropropene	20	19.7	ug/Kg	99			71	130	
	cis-1,3-Dichloropropene	20	20.6	ug/Kg	103			74	126	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			78	121	
	2-Hexanone	100	110	ug/Kg	110			53	145	
	Dibromochloromethane	20	19.8	ug/Kg	99			74	126	
	Tetrachloroethene	20	21.2	ug/Kg	106			73	128	
	Chlorobenzene	20	20.3	ug/Kg	102			79	120	
	Ethyl Benzene	20	20.3	ug/Kg	102			76	122	
	m/p-Xylenes	40	40.2	ug/Kg	101			77	124	
	o-Xylene	20	20.0	ug/Kg	100			77	123	
	Styrene	20	19.9	ug/Kg	100			76	124	
	Bromoform	20	18.6	ug/Kg	93			67	132	
	Isopropylbenzene	20	20.1	ug/Kg	101			68	134	
	1,1,2,2-Tetrachloroethane	20	18.6	ug/Kg	93			70	124	
	1,3-Dichlorobenzene	20	19.4	ug/Kg	97			77	121	
	1,4-Dichlorobenzene	20	20.0	ug/Kg	100			75	120	
	1,2-Dichlorobenzene	20	19.8	ug/Kg	99			78	121	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D **Datafile :** VY022514.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0603SBSD01	Chloromethane	20	22.2	ug/Kg	111	19		50	136	20
	Vinyl chloride	20	22.2	ug/Kg	111	7		56	135	20
	Bromomethane	20	21.2	ug/Kg	106	5		53	143	20
	Chloroethane	20	21.6	ug/Kg	108	2		59	139	20
	Trichlorofluoromethane	20	21.2	ug/Kg	106	5		62	140	20
	1,1,2-Trichlorotrifluoroethane	20	20.2	ug/Kg	101	5		66	136	20
	1,1-Dichloroethene	20	21.7	ug/Kg	109	3		70	131	20
	Acetone	100	120	ug/Kg	120	15		36	164	20
	Carbon disulfide	20	21.3	ug/Kg	106	2		63	132	20
	Methyl tert-butyl Ether	20	20.5	ug/Kg	103	1		73	125	20
	Methylene Chloride	20	19.3	ug/Kg	97	4		70	128	20
	trans-1,2-Dichloroethene	20	20.9	ug/Kg	104	1		74	125	20
	1,1-Dichloroethane	20	21.1	ug/Kg	106	0		76	125	20
	2-Butanone	100	110	ug/Kg	110	9		51	148	20
	Carbon Tetrachloride	20	20.9	ug/Kg	104	3		70	135	20
	cis-1,2-Dichloroethene	20	21.4	ug/Kg	107	4		77	123	20
	Chloroform	20	21.6	ug/Kg	108	2		78	123	20
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106	0		73	130	20
	Methylcyclohexane	20	20.3	ug/Kg	102	3		66	133	20
	Benzene	20	21.0	ug/Kg	105	1		77	121	20
	1,2-Dichloroethane	20	21.0	ug/Kg	105	3		73	128	20
	Trichloroethene	20	21.5	ug/Kg	108	2		77	123	20
	1,2-Dichloropropane	20	20.7	ug/Kg	104	0		76	123	20
	Bromodichloromethane	20	21.0	ug/Kg	105	1		75	127	20
	4-Methyl-2-Pentanone	100	96.9	ug/Kg	97	1		65	135	20
	Toluene	20	20.5	ug/Kg	103	2		77	121	20
	t-1,3-Dichloropropene	20	19.9	ug/Kg	100	1		71	130	20
	cis-1,3-Dichloropropene	20	20.5	ug/Kg	103	0		74	126	20
	1,1,2-Trichloroethane	20	20.6	ug/Kg	103	2		78	121	20
	2-Hexanone	100	98.4	ug/Kg	98	12		53	145	20
	Dibromochloromethane	20	20.2	ug/Kg	101	2		74	126	20
	Tetrachloroethene	20	21.3	ug/Kg	106	0		73	128	20
	Chlorobenzene	20	21.1	ug/Kg	106	4		79	120	20
	Ethyl Benzene	20	20.8	ug/Kg	104	2		76	122	20
	m/p-Xylenes	40	41.3	ug/Kg	103	2		77	124	20
	o-Xylene	20	20.7	ug/Kg	104	4		77	123	20
	Styrene	20	20.6	ug/Kg	103	3		76	124	20
	Bromoform	20	19.9	ug/Kg	100	7		67	132	20
	Isopropylbenzene	20	21.1	ug/Kg	106	5		68	134	20
	1,1,2,2-Tetrachloroethane	20	20.0	ug/Kg	100	7		70	124	20
	1,3-Dichlorobenzene	20	20.5	ug/Kg	103	6		77	121	20
	1,4-Dichlorobenzene	20	20.7	ug/Kg	104	4		75	120	20
	1,2-Dichlorobenzene	20	20.9	ug/Kg	104	5		78	121	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0530WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VX046411.D Lab Sample ID: VX0530WBL01

Date Analyzed: 05/30/2025 Time Analyzed: 11:06

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0530WBS01	VX0530WBS01	VX046412.D	05/30/2025
BP-VPB-182-TB-20250527	Q2162-02	VX046421.D	05/30/2025
BP-VPB-182-GW-620-622	Q2162-07	VX046423.D	05/30/2025
BP-VPB-182-GW-640-642	Q2162-08	VX046424.D	05/30/2025
BP-VPB-182-EB-20250529	Q2162-10	VX046427.D	05/30/2025
BP-VPB-182-GW-600-602	Q2162-04	VX046428.D	05/30/2025
BP-VPB-182-GW-600-602MS	Q2162-05MS	VX046429.D	05/30/2025
BP-VPB-182-GW-600-602MSD	Q2162-06MSD	VX046430.D	05/30/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0603SBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VY022512.D Lab Sample ID: VY0603SBL01

Date Analyzed: 06/03/2025 Time Analyzed: 10:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0603SBS01	VY0603SBS01	VY022513.D	06/03/2025
VY0603SBSD01	VY0603SBSD01	VY022514.D	06/03/2025
BP-VPB-182-GW-580-582	Q2162-01	VY022524.D	06/03/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VX046038.D BFB Injection Date: 05/05/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:37

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.7 (97) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDICC020	VSTDICC020	VX046041.D	05/05/2025	11:35
VSTDICCC050	VSTDICCC050	VX046042.D	05/05/2025	11:58
VSTDICC100	VSTDICC100	VX046043.D	05/05/2025	12:21
VSTDICC150	VSTDICC150	VX046044.D	05/05/2025	12:45
VSTDICC005	VSTDICC005	VX046046.D	05/05/2025	16:04
VSTDICC001	VSTDICC001	VX046047.D	05/05/2025	16:27

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VX046408.D BFB Injection Date: 05/30/2025

Instrument ID: MSVOA_X BFB Injection Time: 08:20

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.6
75	30.0 - 60.0% of mass 95	57.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	68.3
175	5.0 - 9.0% of mass 174	5.2 (7.7) 1
176	95.0 - 101.0% of mass 174	65 (95.2) 1
177	5.0 - 9.0% of mass 176	4.2 (6.5) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDCCC050	VSTDCCC050	VX046409.D	05/30/2025	10:14
VX0530WBL01	VX0530WBL01	VX046411.D	05/30/2025	11:06
VX0530WBS01	VX0530WBS01	VX046412.D	05/30/2025	11:29
BP-VPB-182-TB-20250527	Q2162-02	VX046421.D	05/30/2025	15:02
BP-VPB-182-GW-620-622	Q2162-07	VX046423.D	05/30/2025	15:49
BP-VPB-182-GW-640-642	Q2162-08	VX046424.D	05/30/2025	16:12
BP-VPB-182-EB-20250529	Q2162-10	VX046427.D	05/30/2025	17:23
BP-VPB-182-GW-600-602	Q2162-04	VX046428.D	05/30/2025	17:46
BP-VPB-182-GW-600-602MS	Q2162-05MS	VX046429.D	05/30/2025	18:09
BP-VPB-182-GW-600-602MSD	Q2162-06MSD	VX046430.D	05/30/2025	18:33
VSTDCCC050EC	VSTDCCC050	VX046431.D	05/30/2025	18:56

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VY022488.D BFB Injection Date: 06/02/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:31

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.6
75	30.0 - 60.0% of mass 95	58.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	86.2
175	5.0 - 9.0% of mass 174	6.6 (7.6) 1
176	95.0 - 101.0% of mass 174	82.5 (95.6) 1
177	5.0 - 9.0% of mass 176	5.4 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDICC005	VSTDICC005	VY022491.D	06/02/2025	11:46
VSTDICC010	VSTDICC010	VY022492.D	06/02/2025	12:09
VSTDICC020	VSTDICC020	VY022493.D	06/02/2025	12:32
VSTDICCC050	VSTDICCC050	VY022494.D	06/02/2025	12:54
VSTDICC100	VSTDICC100	VY022495.D	06/02/2025	13:17
VSTDICC150	VSTDICC150	VY022496.D	06/02/2025	13:39

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VY022510.D BFB Injection Date: 06/03/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:03

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26
75	30.0 - 60.0% of mass 95	59.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	82.6
175	5.0 - 9.0% of mass 174	6.2 (7.6) 1
176	95.0 - 101.0% of mass 174	79.5 (96.3) 1
177	5.0 - 9.0% of mass 176	5 (6.3) 2

1-Value is % mass 174 2-Value is % mass 176

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
VSTDCCC050	VSTDCCC050	VY022511.D	06/03/2025	10:03
VY0603SBL01	VY0603SBL01	VY022512.D	06/03/2025	10:40
VY0603SBS01	VY0603SBS01	VY022513.D	06/03/2025	11:15
VY0603SBSD01	VY0603SBSD01	VY022514.D	06/03/2025	11:38
BP-VPB-182-GW-580-582	Q2162-01	VY022524.D	06/03/2025	15:48
VSTDCCC050EC	VSTDCCC050	VY022536.D	06/03/2025	20:51

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VX046409.D Date Analyzed: 05/30/2025

Instrument ID: MSVOA_X Time Analyzed: 10:14

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	91458	5.54	155659	6.75	130840	10.05
UPPER LIMIT	182916	6.038	311318	7.251	261680	10.549
LOWER LIMIT	45729	5.038	77829.5	6.251	65420	9.549
EPA SAMPLE NO.						
BP-VPB-182-TB-20250527	65791	5.54	131064	6.76	123806	10.06
BP-VPB-182-GW-600-602	67201	5.55	136531	6.76	123950	10.06
BP-VPB-182-GW-600-602MS	79536	5.55	143606	6.76	126117	10.05
BP-VPB-182-GW-600-602MSD	75595	5.55	137177	6.76	120035	10.05
BP-VPB-182-GW-620-622	60158	5.55	121355	6.76	111155	10.06
BP-VPB-182-GW-640-642	58123	5.55	117880	6.76	112123	10.06
BP-VPB-182-EB-20250529	61473	5.55	125059	6.76	117701	10.05
VX0530WBL01	64533	5.55	129905	6.76	123011	10.05
VX0530WBS01	86619	5.55	153415	6.76	134836	10.05

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

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 LOWER 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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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VX046409.D Date Analyzed: 05/30/2025

Instrument ID: MSVOA_X Time Analyzed: 10:14

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	64536	12.018				
UPPER LIMIT	129072	12.518				
LOWER LIMIT	32268	11.518				
EPA SAMPLE NO.						
BP-VPB-182-TB-20250527	54063	12.02				
BP-VPB-182-GW-600-602	52218	12.02				
BP-VPB-182-GW-600-602MS	62040	12.02				
BP-VPB-182-GW-600-602MSD	57548	12.02				
BP-VPB-182-GW-620-622	45099	12.02				
BP-VPB-182-GW-640-642	47411	12.02				
BP-VPB-182-EB-20250529	46505	12.02				
VX0530WBL01	51208	12.02				
VX0530WBS01	64120	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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 LOWER 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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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VY022511.D Date Analyzed: 06/03/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:03

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	187797	7.71	325302	8.62	276655	11.42
UPPER LIMIT	375594	8.213	650604	9.115	553310	11.92
LOWER LIMIT	93898.5	7.213	162651	8.115	138328	10.92
EPA SAMPLE NO.						
BP-VPB-182-GW-580-582	262567	7.71	482605	8.61	394621	11.41
VY0603SBL01	287398	7.71	534399	8.62	428748	11.42
VY0603SBS01	197612	7.71	337632	8.62	284268	11.42
VY0603SBSD01	196295	7.71	333757	8.62	277257	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

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 LOWER 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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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: VY022511.D Date Analyzed: 06/03/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:03

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	130385	13.346				
UPPER LIMIT	260770	13.846				
LOWER LIMIT	65192.5	12.846				
EPA SAMPLE NO.						
BP-VPB-182-GW-580-582	147101	13.35				
VY0603SBL01	155262	13.35				
VY0603SBS01	131961	13.35				
VY0603SBSD01	127082	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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 LOWER 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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0530WBL01	SDG No.:	Q2162
Lab Sample ID:	VX0530WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046411.D	1		05/30/25 11:06	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0530WBL01	SDG No.:	Q2162
Lab Sample ID:	VX0530WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046411.D	1		05/30/25 11:06	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.0		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	64500	5.55				
540-36-3	1,4-Difluorobenzene	130000	6.757				
3114-55-4	Chlorobenzene-d5	123000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	51200	12.018				

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:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0603SBL01	SDG No.:	Q2162
Lab Sample ID:	VY0603SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022512.D	1		06/03/25 10:40	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	4.00	U	1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	2.50	U	1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	4.00	U	1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	2.50	U	0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.70	12.5	25.0	ug/Kg

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:	VY0603SBL01	SDG No.:	Q2162
Lab Sample ID:	VY0603SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022512.D	1		06/03/25 10:40	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	2.50	U	0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	2.50	U	0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.5		71 - 136		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.9		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.0		79 - 119		84%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	287000	7.713				
540-36-3	1,4-Difluorobenzene	534000	8.616				
3114-55-4	Chlorobenzene-d5	429000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	155000	13.346				

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:	VX0530WBS01	SDG No.:	Q2162
Lab Sample ID:	VX0530WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046412.D	1		05/30/25 11:29	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	16.7		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.5		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	17.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	18.3		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.4		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.0		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.23	0.75	1.00	ug/L
67-64-1	Acetone	110		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	14.2		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.9		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.2		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.0		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	110		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.7		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.3		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	20.5		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	16.9		0.16	0.50	1.00	ug/L
71-43-2	Benzene	19.3		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.8		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.6		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.1		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	19.2		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.7		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.4		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0530WBS01	SDG No.:	Q2162
Lab Sample ID:	VX0530WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046412.D	1		05/30/25 11:29	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.8		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.1		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.0		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	19.7		0.12	0.50	1.00	ug/L
100-42-5	Styrene	19.8		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	19.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.8		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.7		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.7		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.9		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.9		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	47.8		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	86600	5.549				
540-36-3	1,4-Difluorobenzene	153000	6.756				
3114-55-4	Chlorobenzene-d5	135000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	64100	12.018				

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:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0603SBS01	SDG No.:	Q2162
Lab Sample ID:	VY0603SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022513.D	1		06/03/25 11:15	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	18.4		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	20.8		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	20.2		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	21.3		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.2		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.2		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.2		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	140		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.3		0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	18.5		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.6		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.2		0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	120		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.2		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	21.1		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.8		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	20.7		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	21.3		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.9		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.8		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.0		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	20.1		0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.7		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.6		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	12.5	25.0	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0603SBS01	SDG No.:	Q2162
Lab Sample ID:	VY0603SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022513.D	1		06/03/25 11:15	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	19.8		0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.2		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.2		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	20.0		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	19.9		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	18.6		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.1		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.6		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.4		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.0		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.8		1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.0		71 - 136		100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.5		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		79 - 119		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	198000	7.707				
540-36-3	1,4-Difluorobenzene	338000	8.615				
3114-55-4	Chlorobenzene-d5	284000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	132000	13.346				

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:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0603SBSD01	SDG No.:	Q2162
Lab Sample ID:	VY0603SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022514.D	1		06/03/25 11:38	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	22.2		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.2		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	21.2		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	21.6		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	21.2		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	20.2		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.7		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	120		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.3		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.5		0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.3		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.9		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.1		0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.9		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.4		0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	21.6		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.3		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	21.0		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.0		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	21.5		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.7		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	21.0		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.9		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	20.5		0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.9		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.5		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.6		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	98.4		3.70	12.5	25.0	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0603SBSD01	SDG No.:	Q2162
Lab Sample ID:	VY0603SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022514.D	1		06/03/25 11:38	VY060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	20.2		0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.3		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	21.1		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.8		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.3		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	20.7		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	20.6		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	19.9		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.1		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.0		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.5		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.7		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.9		1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.7		71 - 136		101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		78 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	52.6		85 - 116		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		79 - 119		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	196000	7.707				
540-36-3	1,4-Difluorobenzene	334000	8.616				
3114-55-4	Chlorobenzene-d5	277000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.346				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-600-602MS	SDG No.:	Q2162
Lab Sample ID:	Q2162-05MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046429.D	1		05/30/25 18:09	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	53.2		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	51.7		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	50.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	53.7		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	53.2		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	54.4		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	53.6		0.23	0.75	1.00	ug/L
67-64-1	Acetone	310		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	48.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	57.2		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	52.9		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	54.0		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	57.2		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	310		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	52.3		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	55.9		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	57.4		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	55.7		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	50.7		0.16	0.50	1.00	ug/L
71-43-2	Benzene	54.3		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	55.3		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	53.2		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	56.3		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	56.5		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	310		0.68	2.50	5.00	ug/L
108-88-3	Toluene	54.3		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	54.0		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	54.1		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	56.4		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	320		0.89	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-600-602MS	SDG No.:	Q2162
Lab Sample ID:	Q2162-05MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046429.D	1		05/30/25 18:09	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	57.3		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	54.4		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	53.1		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	54.9		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	56.3		0.12	0.50	1.00	ug/L
100-42-5	Styrene	56.9		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	56.8		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	53.4		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	52.4		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	51.9		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	50.7		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	52.9		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.3		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	47.9		89 - 112		96%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	79500	5.55				
540-36-3	1,4-Difluorobenzene	144000	6.757				
3114-55-4	Chlorobenzene-d5	126000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	62000	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
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Alliance TECHNICAL GROUP
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:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-600-602MSD	SDG No.:	Q2162
Lab Sample ID:	Q2162-06MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046430.D	1		05/30/25 18:33	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	51.9		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	50.8		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	51.7		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	54.6		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	53.5		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	54.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	54.0		0.23	0.75	1.00	ug/L
67-64-1	Acetone	310		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	50.0		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	57.8		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	53.2		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	54.8		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	57.9		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	310		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	53.3		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	55.4		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	57.4		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	57.1		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	50.5		0.16	0.50	1.00	ug/L
71-43-2	Benzene	54.5		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	55.0		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	53.5		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	57.4		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	57.0		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	310		0.68	2.50	5.00	ug/L
108-88-3	Toluene	54.9		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	55.2		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	55.3		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	56.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	320		0.89	2.50	5.00	ug/L

Alliance TECHNICAL GROUP
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:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-600-602MSD	SDG No.:	Q2162
Lab Sample ID:	Q2162-06MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046430.D	1		05/30/25 18:33	VX053025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	58.7		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	54.1		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	53.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	56.1		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	56.5		0.12	0.50	1.00	ug/L
100-42-5	Styrene	58.2		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	57.2		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	56.1		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	54.8		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	54.7		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	53.4		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	55.4		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.7		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	48.8		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	75600	5.549				
540-36-3	1,4-Difluorobenzene	137000	6.757				
3114-55-4	Chlorobenzene-d5	120000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	57500	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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J = Estimated Value
B = Analyte Found in Associated Method Blank
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* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
Chloromethane	0.727	0.775	0.787	0.791	0.679	0.694	0.742	6.6
Vinyl Chloride	0.660	0.710	0.727	0.755	0.619	0.673	0.691	7.2
Bromomethane	0.296	0.326	0.340	0.334	0.305		0.320	5.8
Chloroethane	0.354	0.378	0.329	0.317	0.368	0.467	0.369	14.4
Trichlorofluoromethane	1.035	1.068	0.983	0.985	0.990	1.064	1.021	3.9
1,1,2-Trichlorotrifluoroethane	0.628	0.641	0.629	0.648	0.610	0.633	0.632	2.1
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9
Acetone	0.361	0.362	0.361	0.370	0.408	0.380	0.374	4.9
Carbon Disulfide	1.295	1.455	1.522	1.597	1.141	1.423	1.406	11.7
Methyl tert-butyl Ether	2.044	2.160	2.172	2.239	1.908	1.949	2.079	6.4
Methylene Chloride	0.689	0.684	0.691	0.691	0.689	0.853	0.716	9.4
trans-1,2-Dichloroethene	0.573	0.610	0.612	0.622	0.557	0.604	0.596	4.3
1,1-Dichloroethane	1.233	1.263	1.263	1.286	1.154	1.116	1.219	5.6
2-Butanone	0.540	0.555	0.558	0.569	0.539	0.495	0.543	4.8
Carbon Tetrachloride	0.528	0.558	0.552	0.577	0.505	0.541	0.544	4.6
cis-1,2-Dichloroethene	0.716	0.737	0.738	0.755	0.642	0.719	0.718	5.5
Chloroform	1.287	1.296	1.277	1.300	1.199	1.265	1.271	3
1,1,1-Trichloroethane	1.106	1.131	1.155	1.188	1.013	1.015	1.101	6.6
Methylcyclohexane	0.596	0.641	0.627	0.658	0.587	0.627	0.623	4.3
Benzene	1.426	1.474	1.441	1.477	1.337	1.348	1.417	4.3
1,2-Dichloroethane	0.632	0.627	0.611	0.625	0.594	0.579	0.612	3.5
Trichloroethene	0.344	0.355	0.345	0.362	0.315	0.324	0.341	5.3
1,2-Dichloropropane	0.356	0.371	0.368	0.378	0.324	0.317	0.352	7.4
Bromodichloromethane	0.557	0.577	0.573	0.594	0.498	0.485	0.547	8.2
4-Methyl-2-Pentanone	0.620	0.634	0.630	0.631	0.555	0.561	0.605	6
Toluene	0.884	0.898	0.885	0.904	0.838	0.803	0.869	4.5
t-1,3-Dichloropropene	0.468	0.528	0.555	0.591	0.406	0.371	0.487	17.9
cis-1,3-Dichloropropene	0.531	0.578	0.602	0.623	0.469	0.423	0.538	14.6
1,1,2-Trichloroethane	0.349	0.354	0.351	0.356	0.337	0.308	0.343	5.3
2-Hexanone	0.466	0.473	0.477	0.473	0.414	0.385	0.448	8.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
Dibromochloromethane	0.378	0.400	0.415	0.431	0.326	0.306	0.376	13.3
Tetrachloroethene	0.390	0.375	0.345	0.344	0.323	0.347	0.354	6.8
Chlorobenzene	1.093	1.098	1.085	1.114	1.046	1.131	1.094	2.7
Ethyl Benzene	1.919	2.022	1.979	2.036	1.816	1.803	1.929	5.2
m/p-Xylenes	0.706	0.740	0.721	0.740	0.678	0.648	0.706	5.2
o-Xylene	0.688	0.727	0.706	0.726	0.639	0.642	0.688	5.7
Styrene	1.135	1.219	1.214	1.230	1.012	0.951	1.127	10.6
Bromoform	0.270	0.304	0.312	0.327	0.236	0.234	0.281	14.2
Isopropylbenzene	3.843	4.130	3.876	4.156	3.562	3.789	3.893	5.7
1,1,2,2-Tetrachloroethane	1.315	1.338	1.284	1.345	1.350	1.552	1.364	7
1,3-Dichlorobenzene	1.633	1.701	1.656	1.730	1.558	1.619	1.649	3.7
1,4-Dichlorobenzene	1.629	1.693	1.639	1.722	1.606	1.817	1.684	4.6
1,2-Dichlorobenzene	1.613	1.696	1.634	1.702	1.577	1.710	1.655	3.3
1,2-Dichloroethane-d4	0.953	0.910	0.930	0.932	0.935		0.932	1.6
Dibromofluoromethane	0.359	0.355	0.364	0.368	0.354		0.360	1.7
Toluene-d8	1.246	1.223	1.266	1.275	1.221		1.246	2
4-Bromofluorobenzene	0.455	0.470	0.500	0.500	0.464		0.478	4.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022491.D RRF010 = VY022492.D RRF020 = VY022493.D
RRF050 = VY022494.D RRF100 = VY022495.D RRF150 = VY022496.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Chloromethane	1.320	1.590	1.431	1.230	1.178	1.185	1.322	12.3
Vinyl Chloride	1.371	1.814	1.647	1.497	1.444	1.432	1.534	10.8
Bromomethane	1.365	1.735	1.705	1.240	1.341	1.436	1.470	13.8
Chloroethane	0.973	1.278	1.198	0.965	0.941	0.964	1.053	13.8
Trichlorofluoromethane	1.135	1.492	1.430	1.224	1.223	1.310	1.302	10.5
1,1,2-Trichlorotrifluoroethane	0.510	0.615	0.572	0.538	0.522	0.534	0.549	7.1
1,1-Dichloroethene	0.469	0.577	0.549	0.518	0.510	0.523	0.524	7
Acetone	0.130	0.119	0.120	0.116	0.105	0.092	0.114	11.6
Carbon Disulfide	1.503	1.870	1.731	1.664	1.638	1.666	1.679	7.2
Methyl tert-butyl Ether	1.307	1.618	1.571	1.470	1.435	1.462	1.477	7.4
Methylene Chloride	0.861	0.700	0.637	0.574	0.548	0.550	0.645	18.7
trans-1,2-Dichloroethene	0.522	0.651	0.612	0.571	0.574	0.592	0.587	7.4
1,1-Dichloroethane	0.968	1.193	1.124	1.060	1.051	1.080	1.079	7
2-Butanone	0.143	0.174	0.178	0.168	0.163	0.157	0.164	7.6
Carbon Tetrachloride	0.415	0.516	0.497	0.508	0.508	0.537	0.497	8.5
cis-1,2-Dichloroethene	0.592	0.731	0.706	0.682	0.668	0.691	0.678	7
Chloroform	0.960	1.183	1.109	1.058	1.043	1.062	1.069	6.9
1,1,1-Trichloroethane	0.819	1.029	0.970	0.948	0.951	0.977	0.949	7.4
Methylcyclohexane	0.568	0.674	0.645	0.657	0.664	0.698	0.651	6.9
Benzene	1.213	1.487	1.473	1.441	1.452	1.518	1.431	7.7
1,2-Dichloroethane	0.320	0.424	0.413	0.390	0.395	0.401	0.391	9.4
Trichloroethene	0.294	0.388	0.353	0.355	0.350	0.358	0.350	8.7
1,2-Dichloropropane	0.274	0.364	0.354	0.344	0.344	0.349	0.338	9.6
Bromodichloromethane	0.380	0.525	0.499	0.491	0.491	0.508	0.482	10.7
4-Methyl-2-Pentanone	0.175	0.242	0.246	0.243	0.244	0.246	0.233	12.1
Toluene	0.732	0.932	0.904	0.903	0.933	0.990	0.899	9.8
t-1,3-Dichloropropene	0.350	0.468	0.476	0.461	0.468	0.487	0.452	11.2
cis-1,3-Dichloropropene	0.423	0.549	0.545	0.537	0.544	0.558	0.526	9.7
1,1,2-Trichloroethane	0.207	0.257	0.258	0.242	0.243	0.249	0.243	7.7
2-Hexanone	0.120	0.158	0.166	0.162	0.165	0.162	0.156	11.3

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022491.D RRF010 = VY022492.D RRF020 = VY022493.D
RRF050 = VY022494.D RRF100 = VY022495.D RRF150 = VY022496.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dibromochloromethane	0.248	0.320	0.325	0.314	0.319	0.323	0.308	9.6
Tetrachloroethene	0.375	0.474	0.448	0.437	0.416	0.432	0.430	7.7
Chlorobenzene	0.949	1.170	1.102	1.116	1.120	1.182	1.106	7.5
Ethyl Benzene	1.655	2.090	2.006	2.083	2.148	2.332	2.052	10.9
m/p-Xylenes	0.616	0.780	0.765	0.785	0.822	0.899	0.778	11.9
o-Xylene	0.583	0.749	0.721	0.734	0.764	0.826	0.729	11
Styrene	0.909	1.195	1.189	1.233	1.291	1.417	1.206	13.9
Bromoform	0.161	0.209	0.200	0.201	0.206	0.214	0.198	9.7
Isopropylbenzene	3.470	4.308	4.090	4.136	4.167	4.460	4.105	8.3
1,1,2,2-Tetrachloroethane	0.570	0.738	0.692	0.682	0.671	0.689	0.674	8.3
1,3-Dichlorobenzene	1.514	1.783	1.730	1.733	1.809	1.963	1.755	8.3
1,4-Dichlorobenzene	1.508	1.814	1.733	1.701	1.677	1.781	1.702	6.3
1,2-Dichlorobenzene	1.246	1.582	1.547	1.512	1.490	1.564	1.490	8.3
1,2-Dichloroethane-d4	0.523	0.574	0.556	0.591	0.552	0.559	0.559	4.1
Dibromofluoromethane	0.264	0.283	0.301	0.321	0.307	0.315	0.298	7.2
Toluene-d8	1.067	1.181	1.158	1.279	1.253	1.298	1.206	7.2
4-Bromofluorobenzene	0.339	0.339	0.347	0.372	0.373	0.386	0.359	5.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_X Calibration Date/Time: 05/30/2025 10:14

Lab File ID: VX046409.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.801	0.1	7.95	20
Vinyl Chloride	0.691	0.722		4.49	20
Bromomethane	0.320	0.322		0.63	20
Chloroethane	0.369	0.398		7.86	20
Trichlorofluoromethane	1.021	1.123		9.99	20
1,1,2-Trichlorotrifluoroethane	0.632	0.704		11.39	20
1,1-Dichloroethene	0.593	0.644		8.6	20
Acetone	0.374	0.420		12.3	20
Carbon Disulfide	1.406	1.493		6.19	20
Methyl tert-butyl Ether	2.079	2.258		8.61	20
Methylene Chloride	0.716	0.714		-0.28	20
trans-1,2-Dichloroethene	0.596	0.646		8.39	20
1,1-Dichloroethane	1.219	1.347	0.1	10.5	20
2-Butanone	0.543	0.600		10.5	20
Carbon Tetrachloride	0.544	0.593		9.01	20
cis-1,2-Dichloroethene	0.718	0.778		8.36	20
Chloroform	1.271	1.387		9.13	20
1,1,1-Trichloroethane	1.101	1.190		8.08	20
Methylcyclohexane	0.623	0.679		8.99	20
Benzene	1.417	1.556		9.81	20
1,2-Dichloroethane	0.612	0.666		8.82	20
Trichloroethene	0.341	0.373		9.38	20
1,2-Dichloropropane	0.352	0.395		12.22	20
Bromodichloromethane	0.547	0.622		13.71	20
4-Methyl-2-Pentanone	0.605	0.678		12.07	20
Toluene	0.869	0.940		8.17	20
t-1,3-Dichloropropene	0.487	0.555		13.96	20
cis-1,3-Dichloropropene	0.538	0.621		15.43	20
1,1,2-Trichloroethane	0.343	0.376		9.62	20
2-Hexanone	0.448	0.503		12.28	20
Dibromochloromethane	0.376	0.436		15.96	20
Tetrachloroethene	0.354	0.397		12.15	20
Chlorobenzene	1.094	1.183	0.3	8.14	20
Ethyl Benzene	1.929	2.210		14.57	20
m/p-Xylenes	0.706	0.799		13.17	20
o-Xylene	0.688	0.782		13.66	20
Styrene	1.127	1.325		17.57	20
Bromoform	0.281	0.328	0.1	16.73	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_X Calibration Date/Time: 05/30/2025 10:14

Lab File ID: VX046409.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	4.252		9.22	20
1,1,2,2-Tetrachloroethane	1.364	1.396	0.3	2.35	20
1,3-Dichlorobenzene	1.649	1.805		9.46	20
1,4-Dichlorobenzene	1.684	1.797		6.71	20
1,2-Dichlorobenzene	1.655	1.772		7.07	20
1,2-Dichloroethane-d4	0.932	0.920		-1.29	20
Dibromofluoromethane	0.360	0.375		4.17	20
Toluene-d8	1.246	1.233		-1.04	20
4-Bromofluorobenzene	0.478	0.485		1.46	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_X Calibration Date/Time: 05/30/2025 18:56

Lab File ID: VX046431.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.678	0.1	-8.63	50
Vinyl Chloride	0.691	0.615		-11	50
Bromomethane	0.320	0.291		-9.06	50
Chloroethane	0.369	0.346		-6.23	50
Trichlorofluoromethane	1.021	0.979		-4.11	50
1,1,2-Trichlorotrifluoroethane	0.632	0.618		-2.21	50
1,1-Dichloroethene	0.593	0.566		-4.55	50
Acetone	0.374	0.427		14.17	50
Carbon Disulfide	1.406	1.085		-22.83	50
Methyl tert-butyl Ether	2.079	2.303		10.77	50
Methylene Chloride	0.716	0.705		-1.54	50
trans-1,2-Dichloroethene	0.596	0.567		-4.87	50
1,1-Dichloroethane	1.219	1.297	0.1	6.4	50
2-Butanone	0.543	0.660		21.55	50
Carbon Tetrachloride	0.544	0.536		-1.47	50
cis-1,2-Dichloroethene	0.718	0.752		4.74	50
Chloroform	1.271	1.391		9.44	50
1,1,1-Trichloroethane	1.101	1.186		7.72	50
Methylcyclohexane	0.623	0.569		-8.67	50
Benzene	1.417	1.443		1.84	50
1,2-Dichloroethane	0.612	0.638		4.25	50
Trichloroethene	0.341	0.338		-0.88	50
1,2-Dichloropropane	0.352	0.390		10.8	50
Bromodichloromethane	0.547	0.604		10.42	50
4-Methyl-2-Pentanone	0.605	0.747		23.47	50
Toluene	0.869	0.892		2.65	50
t-1,3-Dichloropropene	0.487	0.534		9.65	50
cis-1,3-Dichloropropene	0.538	0.594		10.41	50
1,1,2-Trichloroethane	0.343	0.385		12.24	50
2-Hexanone	0.448	0.562		25.45	50
Dibromochloromethane	0.376	0.434		15.43	50
Tetrachloroethene	0.354	0.336		-5.09	50
Chlorobenzene	1.094	1.107	0.3	1.19	50
Ethyl Benzene	1.929	2.037		5.6	50
m/p-Xylenes	0.706	0.738		4.53	50
o-Xylene	0.688	0.742		7.85	50
Styrene	1.127	1.252		11.09	50
Bromoform	0.281	0.308	0.1	9.61	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_X Calibration Date/Time: 05/30/2025 18:56

Lab File ID: VX046431.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	4.117		5.75	50
1,1,2,2-Tetrachloroethane	1.364	1.468	0.3	7.63	50
1,3-Dichlorobenzene	1.649	1.747		5.94	50
1,4-Dichlorobenzene	1.684	1.746		3.68	50
1,2-Dichlorobenzene	1.655	1.784		7.8	50
1,2-Dichloroethane-d4	0.932	0.953		2.25	50
Dibromofluoromethane	0.360	0.370		2.78	50
Toluene-d8	1.246	1.219		-2.17	50
4-Bromofluorobenzene	0.478	0.506		5.86	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_Y Calibration Date/Time: 06/03/2025 10:03

Lab File ID: VY022511.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.322	1.316	0.1	-0.45	20
Vinyl Chloride	1.534	1.560		1.7	20
Bromomethane	1.470	1.393		-5.24	20
Chloroethane	1.053	1.102		4.65	20
Trichlorofluoromethane	1.302	1.272		-2.3	20
1,1,2-Trichlorotrifluoroethane	0.549	0.523		-4.74	20
1,1-Dichloroethene	0.524	0.513		-2.1	20
Acetone	0.114	0.097		-14.91	20
Carbon Disulfide	1.679	1.680		0.06	20
Methyl tert-butyl Ether	1.477	1.494		1.15	20
Methylene Chloride	0.645	0.579		-10.23	20
trans-1,2-Dichloroethene	0.587	0.598		1.87	20
1,1-Dichloroethane	1.079	1.105	0.1	2.41	20
2-Butanone	0.164	0.160		-2.44	20
Carbon Tetrachloride	0.497	0.487		-2.01	20
cis-1,2-Dichloroethene	0.678	0.701		3.39	20
Chloroform	1.069	1.105		3.37	20
1,1,1-Trichloroethane	0.949	0.968		2	20
Methylcyclohexane	0.651	0.616		-5.38	20
Benzene	1.431	1.436		0.35	20
1,2-Dichloroethane	0.391	0.395		1.02	20
Trichloroethene	0.350	0.343		-2	20
1,2-Dichloropropane	0.338	0.343		1.48	20
Bromodichloromethane	0.482	0.494		2.49	20
4-Methyl-2-Pentanone	0.233	0.236		1.29	20
Toluene	0.899	0.901		0.22	20
t-1,3-Dichloropropene	0.452	0.460		1.77	20
cis-1,3-Dichloropropene	0.526	0.531		0.95	20
1,1,2-Trichloroethane	0.243	0.243		0	20
2-Hexanone	0.156	0.155		-0.64	20
Dibromochloromethane	0.308	0.312		1.3	20
Tetrachloroethene	0.430	0.422		-1.86	20
Chlorobenzene	1.106	1.118	0.3	1.09	20
Ethyl Benzene	2.052	2.059		0.34	20
m/p-Xylenes	0.778	0.765		-1.67	20
o-Xylene	0.729	0.713		-2.19	20
Styrene	1.206	1.220		1.16	20
Bromoform	0.198	0.195	0.1	-1.51	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_Y Calibration Date/Time: 06/03/2025 10:03

Lab File ID: VY022511.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.105	4.015		-2.19	20
1,1,2,2-Tetrachloroethane	0.674	0.669	0.3	-0.74	20
1,3-Dichlorobenzene	1.755	1.733		-1.25	20
1,4-Dichlorobenzene	1.702	1.659		-2.53	20
1,2-Dichlorobenzene	1.490	1.467		-1.54	20
1,2-Dichloroethane-d4	0.559	0.576		3.04	20
Dibromofluoromethane	0.298	0.300		0.67	20
Toluene-d8	1.206	1.224		1.49	20
4-Bromofluorobenzene	0.359	0.354		-1.39	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_Y Calibration Date/Time: 06/03/2025 20:51

Lab File ID: VY022536.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.322	1.505	0.1	13.84	50
Vinyl Chloride	1.534	1.832		19.43	50
Bromomethane	1.470	1.391		-5.37	50
Chloroethane	1.053	1.190		13.01	50
Trichlorofluoromethane	1.302	1.443		10.83	50
1,1,2-Trichlorotrifluoroethane	0.549	0.527		-4.01	50
1,1-Dichloroethene	0.524	0.518		-1.14	50
Acetone	0.114	0.093		-18.42	50
Carbon Disulfide	1.679	1.643		-2.14	50
Methyl tert-butyl Ether	1.477	1.522		3.05	50
Methylene Chloride	0.645	0.625		-3.1	50
trans-1,2-Dichloroethene	0.587	0.601		2.38	50
1,1-Dichloroethane	1.079	1.124	0.1	4.17	50
2-Butanone	0.164	0.157		-4.27	50
Carbon Tetrachloride	0.497	0.478		-3.82	50
cis-1,2-Dichloroethene	0.678	0.716		5.61	50
Chloroform	1.069	1.151		7.67	50
1,1,1-Trichloroethane	0.949	0.985		3.79	50
Methylcyclohexane	0.651	0.594		-8.76	50
Benzene	1.431	1.465		2.38	50
1,2-Dichloroethane	0.391	0.398		1.79	50
Trichloroethene	0.350	0.354		1.14	50
1,2-Dichloropropane	0.338	0.338		0	50
Bromodichloromethane	0.482	0.503		4.36	50
4-Methyl-2-Pentanone	0.233	0.232		-0.43	50
Toluene	0.899	0.909		1.11	50
t-1,3-Dichloropropene	0.452	0.442		-2.21	50
cis-1,3-Dichloropropene	0.526	0.520		-1.14	50
1,1,2-Trichloroethane	0.243	0.247		1.65	50
2-Hexanone	0.156	0.154		-1.28	50
Dibromochloromethane	0.308	0.311		0.97	50
Tetrachloroethene	0.430	0.459		6.74	50
Chlorobenzene	1.106	1.132	0.3	2.35	50
Ethyl Benzene	2.052	2.057		0.24	50
m/p-Xylenes	0.778	0.782		0.51	50
o-Xylene	0.729	0.739		1.37	50
Styrene	1.206	1.236		2.49	50
Bromoform	0.198	0.202	0.1	2.02	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: MSVOA_Y Calibration Date/Time: 06/03/2025 20:51

Lab File ID: VY022536.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.105	4.064		-1	50
1,1,2,2-Tetrachloroethane	0.674	0.647	0.3	-4.01	50
1,3-Dichlorobenzene	1.755	1.761		0.34	50
1,4-Dichlorobenzene	1.702	1.697		-0.29	50
1,2-Dichlorobenzene	1.490	1.517		1.81	50
1,2-Dichloroethane-d4	0.559	0.605		8.23	50
Dibromofluoromethane	0.298	0.320		7.38	50
Toluene-d8	1.206	1.276		5.8	50
4-Bromofluorobenzene	0.359	0.370		3.06	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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LAB CHRONICLE

OrderID:	Q2162	**OrderDate:**	5/30/2025 11:50:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2162-03	**BP-VPB-182-GW-580-582**	**Water**			**05/27/25**			**05/29/25**
			SVOC-SIMGroup1	8270-Modified		06/02/25	06/03/25	
Q2162-07	**BP-VPB-182-GW-620-622**	**Water**			**05/28/25**			**05/29/25**
			SVOC-SIMGroup1	8270-Modified		06/02/25	06/03/25	
Q2162-09	**BP-VPB-182-DUP-20250528**	**Water**			**05/28/25**			**05/29/25**
			SVOC-SIMGroup1	8270-Modified		06/02/25	06/03/25	
Q2162-10	**BP-VPB-182-EB-20250529**	**Water**			**05/29/25**			**05/29/25**
			SVOC-SIMGroup1	8270-Modified		06/02/25	06/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**BP-VPB-182-EB-20250529**							
Q2162-10	BP-VPB-182-EB-202505 WATER	1,4-Dioxane	0.290		0.07	0.22	0.22	ug/L
		Total Svoc :			**0.29**			
		Total Concentration:			**0.29**			

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/27/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-580-582	SDG No.:	Q2162
Lab Sample ID:	Q2162-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	100 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
BN037158.D	1	06/02/25 08:55	06/03/25 22:01	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.00	U	0.66	2.00	2.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.087	*	30 - 150		22%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.22		55 - 111		56%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.18	*	53 - 106		44%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.12	*	58 - 132		29%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2100	7.589				
1146-65-2	Naphthalene-d8	5800	10.372				
15067-26-2	Acenaphthene-d10	4260	14.235				
1517-22-2	Phenanthrene-d10	7770	16.984				
1719-03-5	Chrysene-d12	5560	21.18				
1520-96-3	Perylene-d12	5160	23.371				

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:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-GW-620-622	SDG No.:	Q2162
Lab Sample ID:	Q2162-07	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	550 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
BN037159.D	1	06/02/25 08:55	06/03/25 22:37	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36	U	0.12	0.36	0.36	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		76%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3160	7.589				
1146-65-2	Naphthalene-d8	8760	10.372				
15067-26-2	Acenaphthene-d10	5210	14.234				
1517-22-2	Phenanthrene-d10	10100	16.984				
1719-03-5	Chrysene-d12	7220	21.18				
1520-96-3	Perylene-d12	6120	23.371				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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:	05/28/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-DUP-20250528	SDG No.:	Q2162
Lab Sample ID:	Q2162-09	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	500 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
BN037160.D	1	06/02/25 08:55	06/03/25 23:13	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.40	U	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		80%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3160	7.589				
1146-65-2	Naphthalene-d8	8040	10.372				
15067-26-2	Acenaphthene-d10	4210	14.235				
1517-22-2	Phenanthrene-d10	7660	16.984				
1719-03-5	Chrysene-d12	5730	21.18				
1520-96-3	Perylene-d12	5430	23.371				

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:	05/29/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/29/25
Client Sample ID:	BP-VPB-182-EB-20250529	SDG No.:	Q2162
Lab Sample ID:	Q2162-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	890 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
BN037161.D	1	06/02/25 08:55	06/03/25 23:49	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.29		0.070	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2850	7.589				
1146-65-2	Naphthalene-d8	7380	10.372				
15067-26-2	Acenaphthene-d10	3980	14.235				
1517-22-2	Phenanthrene-d10	6890	16.984				
1719-03-5	Chrysene-d12	4650	21.18				
1520-96-3	Perylene-d12	4310	23.371				

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.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168238BL	PB168238BL	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
PB168238BS	PB168238BS	2-Methylnaphthalene-d10	0.4	0.38	96		30	150
		Fluoranthene-d10	0.4	0.30	75		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
PB168238BSD	PB168238BSD	2-Methylnaphthalene-d10	0.4	0.38	96		30	150
		Fluoranthene-d10	0.4	0.30	74		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
Q2162-03	BP-VPB-182-GW-580-582	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.087	22	*	30	150
		Nitrobenzene-d5	0.4	0.22	56		55	111
		2-Fluorobiphenyl	0.4	0.18	44	*	53	106
		Terphenyl-d14	0.4	0.12	29	*	58	132
Q2162-07	BP-VPB-182-GW-620-622	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
		2-Fluorobiphenyl	0.4	0.30	76		53	106
		Terphenyl-d14	0.4	0.37	94		58	132
Q2162-09	BP-VPB-182-DUP-20250528	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.32	80		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
Q2162-10	BP-VPB-182-EB-20250529	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.49	122		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037168.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168238BS	1,4-Dioxane	0.4	0.44	ug/L	110				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2162

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037169.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168238BSD	1,4-Dioxane	0.4	0.43	ug/L	108	2			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168238BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: BN037167.D Lab Sample ID: PB168238BL

Instrument ID: BNA_N Date Extracted: 06/02/2025

Matrix: (soil/water) Water Date Analyzed: 06/04/2025

Level: (low/med) LOW Time Analyzed: 11:03

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168238BS	PB168238BS	BN037168.D	06/04/2025
PB168238BSD	PB168238BSD	BN037169.D	06/04/2025
BP-VPB-182-GW-580-582	Q2162-03	BN037158.D	06/03/2025
BP-VPB-182-GW-620-622	Q2162-07	BN037159.D	06/03/2025
BP-VPB-182-DUP-20250528	Q2162-09	BN037160.D	06/03/2025
BP-VPB-182-EB-20250529	Q2162-10	BN037161.D	06/03/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: BN037142.D DFTPP Injection Date: 06/03/2025

Instrument ID: BNA_N DFTPP Injection Time: 10:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	58.7
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	53.9
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
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	10.3
442	Greater than 50% of mass 198	61.1
443	15.0 - 24.0% of mass 442	12.1 (19.8) 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	BN037143.D	06/03/2025	11:39
SSTDICC0.2	SSTDICC0.2	BN037144.D	06/03/2025	12:15
SSTDICCC0.4	SSTDICCC0.4	BN037145.D	06/03/2025	12:51
SSTDICC0.8	SSTDICC0.8	BN037146.D	06/03/2025	13:26
SSTDICC1.6	SSTDICC1.6	BN037147.D	06/03/2025	14:02
SSTDICC3.2	SSTDICC3.2	BN037148.D	06/03/2025	14:38
SSTDICC5.0	SSTDICC5.0	BN037149.D	06/03/2025	15:14

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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: BN037155.D DFTPP Injection Date: 06/03/2025

Instrument ID: BNA_N DFTPP Injection Time: 20:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	70.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	59.6
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	54.6
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
275	10.0 - 60.0% of mass 198	25.3
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	57.3
443	15.0 - 24.0% of mass 442	11.1 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037156.D	06/03/2025	20:49
BP-VPB-182-GW-580-582	Q2162-03	BN037158.D	06/03/2025	22:01
BP-VPB-182-GW-620-622	Q2162-07	BN037159.D	06/03/2025	22:37
BP-VPB-182-DUP-20250528	Q2162-09	BN037160.D	06/03/2025	23:13
BP-VPB-182-EB-20250529	Q2162-10	BN037161.D	06/03/2025	23:49
SSTDCCC0.4EC	SSTDCCC0.4	BN037164.D	06/04/2025	02:13

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q2162 SDG NO.: Q2162

Lab File ID: BN037165.D DFTPP Injection Date: 06/04/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	76.1
68	Less than 2.0% of mass 69	0.4 (0.6) 1
69	Mass 69 relative abundance	61.6
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	55.9
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	6.8
275	10.0 - 60.0% of mass 198	24.2
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	8.7
442	Greater than 50% of mass 198	51.8
443	15.0 - 24.0% of mass 442	10.3 (20) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037166.D	06/04/2025	10:27
PB168238BL	PB168238BL	BN037167.D	06/04/2025	11:03
PB168238BS	PB168238BS	BN037168.D	06/04/2025	12:27
PB168238BSD	PB168238BSD	BN037169.D	06/04/2025	13:03
SSTDCCC0.4EC	SSTDCCC0.4	BN037170.D	06/04/2025	13:53

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/03/2025

Lab File ID: BN037156.D Time Analyzed: 20:49

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	2847	7.597	7454	10.37	3959	14.25
	UPPER LIMIT	5694	8.097	14908	10.872	7918	14.745
	LOWER LIMIT	1423.5	7.097	3727	9.872	1979.5	13.745
	EPA SAMPLE NO.						
01	BP-VPB-182-GW-580-582	2097	7.59	5795	10.37	4259	14.24
02	BP-VPB-182-GW-620-622	3162	7.59	8760	10.37	5205	14.23
03	BP-VPB-182-DUP-20250528	3155	7.59	8035	10.37	4210	14.24
04	BP-VPB-182-EB-20250529	2849	7.59	7378	10.37	3984	14.24

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.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/03/2025

Lab File ID: BN037156.D Time Analyzed: 20:49

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	6963	16.984	4663	21.18	4134	23.374
	UPPER LIMIT	13926	17.484	9326	21.68	8268	23.874
	LOWER LIMIT	3481.5	16.484	2331.5	20.68	2067	22.874
	EPA SAMPLE NO.						
01	BP-VPB-182-GW-580-582	7770	16.98	5558	21.18	5158	23.37
02	BP-VPB-182-GW-620-622	10120	16.98	7222	21.18	6119	23.37
03	BP-VPB-182-DUP-20250528	7656	16.98	5729	21.18	5434	23.37
04	BP-VPB-182-EB-20250529	6891	16.98	4650	21.18	4307	23.37

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: CHEMTECH

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/04/2025

Lab File ID: BN037166.D Time Analyzed: 10:27

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	2757	7.589	7191	10.37	3834	14.23
	UPPER LIMIT	5514	8.089	14382	10.872	7668	14.734
	LOWER LIMIT	1378.5	7.089	3595.5	9.872	1917	13.734
	EPA SAMPLE NO.						
01	PB168238BL	2941	7.59	7107	10.37	3690	14.25
02	PB168238BS	2103	7.59	5280	10.37	2700	14.24
03	PB168238BSD	2147	7.59	5350	10.37	2661	14.24

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.: Q2162 SAS No.: Q2162 SDG NO.: Q2162

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/04/2025

Lab File ID: BN037166.D Time Analyzed: 10:27

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	6868	16.984	4452	21.18	4092	23.374
	UPPER LIMIT	13736	17.484	8904	21.68	8184	23.874
	LOWER LIMIT	3434	16.484	2226	20.68	2046	22.874
	EPA SAMPLE NO.						
01	PB168238BL	6730	16.98	4435	21.19	4132	23.37
02	PB168238BS	4608	16.98	2742	21.19	2588	23.38
03	PB168238BSD	4419	16.98	2674	21.19	2551	23.38

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168238BL	SDG No.:	Q2162
Lab Sample ID:	PB168238BL	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
BN037167.D	1	06/02/25 08:55	06/04/25 11:03	PB168238

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	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	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	2940	7.589				
1146-65-2	Naphthalene-d8	7110	10.372				
15067-26-2	Acenaphthene-d10	3690	14.245				
1517-22-2	Phenanthrene-d10	6730	16.984				
1719-03-5	Chrysene-d12	4440	21.189				
1520-96-3	Perylene-d12	4130	23.374				

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:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168238BS	SDG No.:	Q2162
Lab Sample ID:	PB168238BS	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
BN037168.D	1	06/02/25 08:55	06/04/25 12:27	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.44		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		75%	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	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2100	7.589				
1146-65-2	Naphthalene-d8	5280	10.372				
15067-26-2	Acenaphthene-d10	2700	14.235				
1517-22-2	Phenanthrene-d10	4610	16.984				
1719-03-5	Chrysene-d12	2740	21.189				
1520-96-3	Perylene-d12	2590	23.377				

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:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168238BSD	SDG No.:	Q2162
Lab Sample ID:	PB168238BSD	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
BN037169.D	1	06/02/25 08:55	06/04/25 13:03	PB168238

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.43		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 - 150		74%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2150	7.59				
1146-65-2	Naphthalene-d8	5350	10.372				
15067-26-2	Acenaphthene-d10	2660	14.235				
1517-22-2	Phenanthrene-d10	4420	16.984				
1719-03-5	Chrysene-d12	2670	21.189				
1520-96-3	Perylene-d12	2550	23.377				

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-BN060325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jun 04 01:52:03 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN037143.D 0.2 =BN037144.D 0.4 =BN037145.D 0.8 =BN037146.D 1.6 =BN037147.D 3.2 =BN037148.D 5.0 =BN037149.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	0.598	0.657	0.510	0.506	0.526	0.477	0.458	0.533	13.16
3)		n-Nitrosodimet...	1.098	1.031	1.061	1.067	1.163	1.061	1.012	1.071	4.60
4)	S	2-Fluorophenol	1.027	1.017	0.940	0.945	1.036	0.984	0.975	0.989	3.91
5)	S	Phenol-d6	1.156	1.144	1.127	1.126	1.293	1.261	1.285	1.199	6.42
6)		bis(2-Chloroet...	1.138	1.139	1.128	1.089	1.223	1.146	1.146	1.144	3.51
7)	I	Naphthalene-d8	----------	ISTD	----------						
8)	S	Nitrobenzene-d5	0.393	0.383	0.421	0.407	0.455	0.450	0.446	0.422	6.86
9)		Naphthalene	1.183	1.125	1.119	1.111	1.215	1.165	1.160	1.154	3.31
10)		Hexachlorobuta...	0.253	0.249	0.261	0.247	0.266	0.246	0.238	0.251	3.81
11)	SURR	2-Methylnaphth...	0.520	0.515	0.562	0.536	0.598	0.577	0.588	0.557	5.97
12)		2-Methylnaphth...	0.704	0.680	0.691	0.719	0.809	0.783	0.793	0.740	7.22
13)	I	Acenaphthene-d10	----------	ISTD	----------						
14)	S	2,4,6-Tribromo...	0.124	0.147	0.146	0.157	0.185	0.182	0.186	0.161	15.03
15)	S	2-Fluorobiphenyl	1.722	1.691	1.626	1.654	1.814	1.706	1.725	1.705	3.52
16)		Acenaphthylene	1.946	1.905	1.768	1.871	2.112	2.050	2.075	1.961	6.32
17)		Acenaphthene	1.290	1.253	1.159	1.212	1.370	1.309	1.320	1.273	5.59
18)		Fluorene	1.701	1.577	1.518	1.611	1.823	1.736	1.752	1.674	6.48
19)	I	Phenanthrene-d10	----------	ISTD	----------						
20)		4,6-Dinitro-2-...		0.039	0.050	0.067	0.090	0.102	0.114	0.077	38.58
21)		4-Bromophenyl-...	0.256	0.253	0.244	0.254	0.281	0.276	0.271	0.262	5.32
22)		Hexachlorobenzene	0.289	0.284	0.269	0.279	0.301	0.284	0.274	0.283	3.72
23)		Atrazine	0.194	0.200	0.187	0.209	0.241	0.238	0.247	0.216	11.42
24)		Pentachlorophenol		0.086	0.092	0.107	0.140	0.153	0.165	0.124	26.72
25)		Phenanthrene	1.285	1.242	1.193	1.248	1.386	1.357	1.361	1.296	5.64
26)		Anthracene	1.098	1.099	1.036	1.143	1.294	1.290	1.317	1.183	9.71
27)	SURR	Fluoranthene-d10	0.969	0.937	0.975	0.956	1.092	1.071	1.114	1.016	7.22
28)		Fluoranthene	1.339	1.294	1.277	1.365	1.579	1.563	1.605	1.432	10.09
29)	I	Chrysene-d12	----------	ISTD	----------						
30)		Pyrene	2.051	1.974	1.827	1.928	2.048	1.955	1.885	1.953	4.20
31)	S	Terphenyl-d14	0.964	0.909	0.896	0.941	1.006	0.952	0.923	0.942	3.96
32)		Benzo(a)anthra...	1.369	1.367	1.291	1.404	1.582	1.553	1.570	1.448	8.15
33)		Chrysene	1.755	1.636	1.473	1.582	1.698	1.584	1.556	1.612	5.81
34)		Bis(2-ethylhex...	1.032	0.859	0.774	0.858	0.956	0.914	1.002	0.914	9.90
35)	I	Perylene-d12	----------	ISTD	----------						

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN060325.M

36)		Indeno(1,2,3-c...	1.443	1.605	1.501	1.526	1.695	1.673	1.697	1.591	6.44
37)		Benzo(b)fluora...	1.529	1.520	1.421	1.575	1.763	1.713	1.781	1.615	8.58
38)		Benzo(k)fluora...	1.576	1.565	1.461	1.612	1.777	1.743	1.805	1.648	7.79
39)	C	Benzo(a)pyrene	1.310	1.287	1.219	1.294	1.451	1.426	1.481	1.352	7.32
40)		Dibenzo(a,h)an...	1.074	1.167	1.160	1.196	1.333	1.332	1.328	1.227	8.48
41)		Benzo(g,h,i)pe...	1.368	1.450	1.351	1.372	1.477	1.424	1.425	1.410	3.33

(#) = Out of Range

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: BNA_N Calibration Date(s): 06/03/2025 06/03/2025

Calibration Time(s): 11:39 15:14

LAB FILE ID: RRF0.1 = BN037143.D RRF0.2 = BN037144.D RRF0.4 = BN037145.D
RRF0.8 = BN037146.D RRF1.6 = BN037147.D RRF3.2 = BN037148.D

COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.520	0.515	0.562	0.536	0.598	0.577	0.557	6.0
Fluoranthene-d10	0.969	0.937	0.975	0.956	1.092	1.071	1.016	7.2
2-Fluorophenol	1.027	1.017	0.940	0.945	1.036	0.984	0.989	3.9
Phenol-d6	1.156	1.144	1.127	1.126	1.293	1.261	1.199	6.4
Nitrobenzene-d5	0.393	0.383	0.421	0.407	0.455	0.450	0.422	6.9
2-Fluorobiphenyl	1.722	1.691	1.626	1.654	1.814	1.706	1.705	3.5
2,4,6-Tribromophenol	0.124	0.147	0.146	0.157	0.185	0.182	0.161	15.0
Terphenyl-d14	0.964	0.909	0.896	0.941	1.006	0.952	0.942	4.0
1,4-Dioxane	0.598	0.657	0.510	0.506	0.526	0.477	0.533	13.2

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: BNA_N Calibration Date/Time: 06/03/2025 20:49

Lab File ID: BN037156.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:39 15:14

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.552		-0.9	20.0
Fluoranthene-d10	1.016	0.920		-9.4	20.0
2-Fluorophenol	0.989	0.965		-2.4	20.0
Phenol-d6	1.199	1.176		-1.9	20.0
Nitrobenzene-d5	0.422	0.417		-1.2	20.0
2-Fluorobiphenyl	1.705	1.640		-3.8	20.0
2,4,6-Tribromophenol	0.161	0.134		-16.8	20.0
Terphenyl-d14	0.942	0.890		-5.5	20.0
1,4-Dioxane	0.533	0.474		-11.1	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: BNA_N Calibration Date/Time: 06/04/2025 02:13

Lab File ID: BN037164.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:39 15:14

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.563		1.1	50.0
Fluoranthene-d10	1.016	0.935		-8.0	50.0
2-Fluorophenol	0.989	0.963		-2.6	50.0
Phenol-d6	1.199	1.151		-4.0	50.0
Nitrobenzene-d5	0.422	0.418		-0.9	50.0
2-Fluorobiphenyl	1.705	1.686		-1.1	50.0
2,4,6-Tribromophenol	0.161	0.148		-8.1	50.0
Terphenyl-d14	0.942	0.914		-3.0	50.0
1,4-Dioxane	0.533	0.492		-7.7	50.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: BNA_N Calibration Date/Time: 06/04/2025 10:27

Lab File ID: BN037166.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:39 15:14

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.558		0.2	20.0
Fluoranthene-d10	1.016	0.928		-8.7	20.0
2-Fluorophenol	0.989	0.951		-3.8	20.0
Phenol-d6	1.199	1.170		-2.4	20.0
Nitrobenzene-d5	0.422	0.420		-0.5	20.0
2-Fluorobiphenyl	1.705	1.701		-0.2	20.0
2,4,6-Tribromophenol	0.161	0.138		-14.3	20.0
Terphenyl-d14	0.942	0.909		-3.5	20.0
1,4-Dioxane	0.533	0.507		-4.9	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2162 SAS No.: Q2162 SDG No.: Q2162

Instrument ID: BNA_N Calibration Date/Time: 06/04/2025 13:53

Lab File ID: BN037170.D Init. Calib. Date(s): 06/03/2025 06/03/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:39 15:14

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.549		-1.4	50.0
Fluoranthene-d10	1.016	0.941		-7.4	50.0
2-Fluorophenol	0.989	0.994		0.5	50.0
Phenol-d6	1.199	1.160		-3.3	50.0
Nitrobenzene-d5	0.422	0.430		1.9	50.0
2-Fluorobiphenyl	1.705	1.670		-2.1	50.0
2,4,6-Tribromophenol	0.161	0.139		-13.7	50.0
Terphenyl-d14	0.942	0.870		-7.6	50.0
1,4-Dioxane	0.533	0.518		-2.8	50.0

All other compounds must meet a minimum RRF of 0.010.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q2162

COC Number:

CLIENT INFORMATION			PROJECT INFORMATION		BILLING INFORMATION	
COMPANY: Tetra Tech			PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT	PO#
ADDRESS: 4433 Corporation Lane Suite 300			PROJECT #: 112G08005-WE13	LOCATION: VPB-182	ADDRESS:	
CITY: Virginia Beach	STATE: VA	ZIP: 23462	PROJECT MANAGER: Ernie Wu		CITY:	STATE: ZIP:
ATTENTION: Ernie Wu			E-MAIL: ernie.wu@tetratech.com		ATTENTION:	PHONE:
PHONE: 757-466-4901	FAX: 757-461-4148		PHONE: 757-466-4901	FAX: 757-461-4148		

DATA TURNAROUND INFORMATION

FAX: 2 & 10 DAYS*
HARD COPY: 2 & 10 DAYS*
EDD 2 & 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

	1	2	3	4	5	6	7	8	9
	VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)							

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1.	BP-VPB-182-TB-20250527	QA		X	5/27/25	9:00	2	2										Trip Blank
2.	BP-VPB-182-GW-580-582	AQ		X	5/27/25	13:16	3	4	1									
3.	BP-VPB-182-GW-600-602	AQ		X	5/28/25	10:22	6	6										8260B MS/MSD
4.	BP-VPB-182-GW-620-622	AQ		X	5/28/25	12:27	3	2	1									
5.	BP-VPB-182-GW-640-642	AQ		X	5/29/25	10:06	3	3										
6.	BP-VPB-182-DUP-20250528	QA		X	5/28/25	12:00	1		1									8270 SIM Duplicate
7.	BP-VPB-182-EB-20250529	QA		X	5/29/25	12:35	3	2	1									Equipment Blank
8.																		
9.																		
10.																		

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	5/29/25 1600	1. 1625 5.29.25
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	5.29.25 1906	3.

Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 2.2°
MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in
Cooler?:
Comments: 5 Day TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list
10-DAY TAT - For 1,4 Dioxane (8270 SIM)

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2162 TETR06 **Order Date :** 5/30/2025 11:50:00 AM **Project Mgr :** Yazmeen
Client Name : Tetra Tech NUS, Inc. **Project Name :** NWIRP Bethpage 112G080 **Report Type :** Level 4
Client Contact : Ernie Wu **Receive DateTime :** 5/29/2025 7:06:00 PM **EDD Type :** ADAPT
Invoice Name : Tetra Tech NUS, Inc. **Purchase Order :** **Hard Copy Date :**
Invoice Contact : Ernie Wu **Date Signoff :** 5/30/2025 12:58:42 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2162-01	BP-VPB-182-GW-580-582	Solid	05/27/2025	13:16					
					VOCMS Group1		8260D	5 Bus. Days	
Q2162-02	BP-VPB-182-TB-20250527	Water	05/27/2025	09:00					
					VOCMS Group1		8260-Low	5 Bus. Days	
Q2162-04	BP-VPB-182-GW-600-602	Water	05/28/2025	10:22					
					VOCMS Group1		8260-Low	5 Bus. Days	
Q2162-05	Q2162-04MS	Water	05/28/2025	10:22					
					VOCMS Group1		8260-Low	5 Bus. Days	
Q2162-06	Q2162-04MSD	Water	05/28/2025	10:22					
					VOCMS Group1		8260-Low	5 Bus. Days	
Q2162-07	BP-VPB-182-GW-620-622	Water	05/28/2025	12:27					
					VOCMS Group1		8260-Low	5 Bus. Days	
Q2162-08	BP-VPB-182-GW-640-642	Water	05/29/2025	10:06					
					VOCMS Group1		8260-Low	5 Bus. Days	
Q2162-10	BP-VPB-182-EB-20250529	Water	05/29/2025	12:35					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2162 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 5/30/2025 11:50:00 AM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 5/29/2025 7:06:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinguished By : [signature]
Date / Time : 5/30/25 1225

Received By : JC
Date / Time : 5/30/25 1225

Storage Area : VOA Refridgerator Room