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

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE CTO WE13 - VPB-192 #112G08005

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1380

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for Q1380

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Cover Page

Order ID : Q1380

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q1380-01	BP-VPB-192-EB-20250212
Q1380-02	BP-VPB-192-TB-20250210
Q1380-06	BP-VPB-192-GW-725-727
Q1380-07	BP-VPB-192-GW-725-727MS
Q1380-08	BP-VPB-192-GW-725-727MSD
Q1380-09	BP-VPB-192-GW-780-782
Q1380-10	BP-VPB-192-GW-780-782MS
Q1380-11	BP-VPB-192-GW-780-782MSD
Q1380-12	VPB192-HYD-20250214

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: 3/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager: Ernie Wu
Chemtech Project # Q1380
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 02/17/2025.
6 Water samples were received on 02/17/2025.

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_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The 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 except for BP-VPB-192-GW-725-727MS and BP-VPB-192-GW-725-727MSD,for MS-MSD VIAL A Initially analyzed in sequence VY022025 with in Holding time but internal standard and surrogate failed as well as End CCAL was failing therefore as a corrective action lab analyzed MS-MSD again with VIAL B where Internal standards and surrogate failure confirmed but this analysis is out of Holding time, Therefore VIAL B reported as final and VIAL A reported as screening data in miscellaneous section.

The Surrogate recoveries met the acceptable criteria except for BP-VPB-192-GW-725-727MS [4-Bromofluorobenzene - 63%, Toluene-d8 - 73%] Surrogate fail in Only MS and but Parent Sample and MSD are Passing For Surrogate Recoveries therefore no Corrective action was taken.

The Internal Standards Areas met the acceptable requirements except for BP-VPB-192-GW-725-727MSD.Internal standard fail in only MSD but MS and Parent Sample are Passing For Internal standard Recoveries therefore no Corrective action was taken.

The Retention Times were acceptable for all samples.
The MS {Q1380-07MS} with File ID: VY021342.D recoveries met the requirements for all compounds except for 1,2-Dichlorobenzene[72%], 1,3-Dichlorobenzene[67%], 1,4-Dichlorobenzene[69%], Chlorobenzene[76%], Ethyl Benzene[75%], m/p-Xylenes[74%], Methylcyclohexane[46%], o-Xylene[75%], Styrene[51%], Tetrachloroethene[72%] and Trichloroethene[76%],due to Matrix interference.

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The MSD {Q1380-08MSD} with File ID: VY021343.D recoveries met the acceptable requirements except for 1,1,2,2-Tetrachloroethane[164%], Methyl tert-butyl Ether[127%] and Styrene[69%], due to Matrix interference.

The sample # BP-VPB-192-GW-725-727MS and BP-VPB-192-GW-725-727MSD are failing for Methyl tert-butyl Ether,Methylcyclohexane,Trichloroethene,Tetrachloroethene,Chlorobenzene,Ethyl Benzene,m/p-Xylenes,o-Xylene,Styrene,1,1,2,2-Tetrachloroethane,1,3-Dichlorobenzene,1,4-Dichlorobenzene and 1,2-Dichlorobenzene the original sample(BP-VPB-192-GW-725-727) is reported with M flag for this compounds.

The RPD for {Q1380-08MSD} with File ID: VY021343.D met criteria except for 1,1,1-Trichloroethane[34%], 1,1,2,2-Tetrachloroethane[38%], 1,1,2-Trichloroethane[40%], 1,1,2-Trichlorotrifluoroethane[37%], 1,1-Dichloroethane[32%], 1,1-Dichloroethene[35%], 1,2-Dichlorobenzene[40%], 1,2-Dichloroethane[38%], 1,2-Dichloropropane[35%], 1,3-Dichlorobenzene[38%], 1,4-Dichlorobenzene[40%], 2-Butanone[41%], 2-Hexanone[45%], 4-Methyl-2-Pentanone[45%], Acetone[39%], Benzene[35%], Bromodichloromethane[34%], Bromoform[38%], Bromomethane[33%], Carbon disulfide[32%], Carbon Tetrachloride[35%], Chlorobenzene[34%], Chloroethane[31%], Chloroform[33%], Chloromethane[36%], cis-1,2-Dichloroethene[33%], cis-1,3-Dichloropropene[35%], Dibromochloromethane[38%], Ethyl Benzene[35%], Isopropylbenzene[37%], m/p-Xylenes[37%], Methyl tert-butyl Ether[39%], Methylcyclohexane[43%], Methylene Chloride[33%], o-Xylene[35%], Styrene[30%], t-1,3-Dichloropropene[36%], Tetrachloroethene[34%], Toluene[35%], trans-1,2-Dichloroethene[34%], Trichloroethene[35%], Trichlorofluoromethane[35%] and Vinyl chloride[37%] , due to difference in results of MS and MSD.

The Blank Spike for {VY0219SBS01} with File ID: VY021238.D met requirements for all samples except for Chloroethane[146%], Chloromethane[150%] and Vinyl chloride[145%], are failing high but no positive hit in associate samples therefore no corrective action taken.

The Blank Spike Duplicate met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82N021825W.M) for Styrene this compound is passing on Quadratic Regression.

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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The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.
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: CTO WE13
Project Manager: Ernie Wu
Chemtech Project # Q1380
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 02/17/2025.
6 Water samples were received on 02/17/2025.

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 PB166758BS [2-Fluorobiphenyl - 118%], BP-VPB-192-EB-20250212 [Terphenyl-d14 - 146%], BP-VPB-192-GW-780-782 [2-Fluorobiphenyl - 118%], BP-VPB-192-GW-780-782MS [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 135%], BP-VPB-192-GW-780-782MSD [2-Fluorobiphenyl - 113%, Terphenyl-d14 - 138%],failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken while,
VPB192-HYD-20250214 [2-Methylnaphthalene-d10 - 6%]surrogate failing biased low also Due to the limited volume of this sample, it will not be re-extracted therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q1380-10MS} with File ID: BN036477.D recoveries met the requirements for all compounds except for 1,4-Dioxane[64%] due to matrix interference.

The MSD recoveries met the acceptable requirements .

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The sample # BP-VPB-192-GW-780-782MS is failing for 1,4-Dioxane and the original sample(BP-VPB-192-GW-780-782) is reported with M flag for this compound.

The RPD met criteria .
The Blank Spike 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).

Less volume was taken for samples #BP-VPB-192-GW-780-782, BP-VPB-192-GW-780-782MS,BP-VPB-192-GW-780-782MSD at the time of extraction due to Limited volume received.

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_____

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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 #: Q1380

	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:** 03/03/2025

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LAB CHRONICLE

OrderID:	Q1380	**OrderDate:**	2/17/2025 3:59:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1380-01	**BP-VPB-192-EB-20250212**	**Water**			**02/12/25**			**02/17/25**
			VOCMS Group1	8260-Low			02/19/25	
Q1380-02	**BP-VPB-192-TB-20250210**	**Water**			**02/10/25**			**02/17/25**
			VOCMS Group1	8260-Low			02/19/25	
Q1380-06	**BP-VPB-192-GW-725-727**	**SOIL**			**02/10/25**			**02/17/25**
			VOCMS Group1	8260D			02/19/25	
Q1380-09	**BP-VPB-192-GW-780-782**	**Water**			**02/13/25**			**02/17/25**
			VOCMS Group1	8260-Low			02/19/25	
Q1380-12	**VPB192-HYD-20250214**	**Water**			**02/14/25**			**02/17/25**
			VOCMS Group1	8260-Low			02/19/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**BP-VPB-192-EB-20250212**								
Q1380-01	BP-VPB-192-EB-2(	Water	Acetone	4.70	J	1.40	3.80	5.00	ug/L
			Total Voc :	4.70					
			Total Concentration:	4.70					
Client ID:	**BP-VPB-192-TB-20250210**								
Q1380-02	BP-VPB-192-TB-2(	Water	Acetone	1.40	J	1.40	3.80	5.00	ug/L
			Total Voc :	1.40					
			Total Concentration:	1.40					
Client ID:	**BP-VPB-192-GW-725-727**								
Q1380-06	BP-VPB-192-GW-7	SOIL	Acetone	130	J	83.5	270	330	ug/Kg
			Total Voc :	130					
			Total Concentration:	130					
Client ID:	**BP-VPB-192-GW-780-782**								
Q1380-09	BP-VPB-192-GW-7	Water	Acetone	9.50		1.40	3.80	5.00	ug/L
Q1380-09	BP-VPB-192-GW-7	Water	2-Butanone	1.90	J	1.30	2.50	5.00	ug/L
			Total Voc :	11.4					
			Total Concentration:	11.4					
Client ID:	**VPB192-HYD-20250214**								
Q1380-12	VPB192-HYD-2025	Water	Acetone	1.50	J	1.40	3.80	5.00	ug/L
Q1380-12	VPB192-HYD-2025	Water	Chloroform	0.49	J	0.26	0.50	1.00	ug/L
Q1380-12	VPB192-HYD-2025	Water	Bromodichloromethane	1.50		0.24	0.50	1.00	ug/L
Q1380-12	VPB192-HYD-2025	Water	4-Methyl-2-Pentanone	1.90	J	0.75	2.50	5.00	ug/L
Q1380-12	VPB192-HYD-2025	Water	Dibromochloromethane	2.70		0.18	0.50	1.00	ug/L
Q1380-12	VPB192-HYD-2025	Water	Bromoform	1.60		0.21	0.50	1.00	ug/L
			Total Voc :	9.69					
			Total Concentration:	9.69					

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/12/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-EB-20250212	SDG No.:	Q1380
Lab Sample ID:	Q1380-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085788.D	1		02/19/25 14:21	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	4.70	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/12/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-EB-20250212	SDG No.:	Q1380
Lab Sample ID:	Q1380-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085788.D	1		02/19/25 14:21	VN021925

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.6		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	292000	8.218				
540-36-3	1,4-Difluorobenzene	538000	9.1				
3114-55-4	Chlorobenzene-d5	479000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	200000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/12/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-EB-20250212	SDG No.:	Q1380
Lab Sample ID:	Q1380-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085788.D	1		02/19/25 14:21	VN021925

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:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-TB-20250210	SDG No.:	Q1380
Lab Sample ID:	Q1380-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085789.D	1		02/19/25 14:45	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.40	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-TB-20250210	SDG No.:	Q1380
Lab Sample ID:	Q1380-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085789.D	1		02/19/25 14:45	VN021925

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.5		81 - 118		115%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	265000	8.224				
540-36-3	1,4-Difluorobenzene	488000	9.1				
3114-55-4	Chlorobenzene-d5	434000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	175000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-TB-20250210	SDG No.:	Q1380
Lab Sample ID:	Q1380-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085789.D	1		02/19/25 14:45	VN021925

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:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-725-727	SDG No.:	Q1380
Lab Sample ID:	Q1380-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	7.4
Sample Wt/Vol:	5.05 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
VY021241.D	1		02/19/25 16:59	VY021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	33.4	UQ	15.5	33.4	66.9	ug/Kg
75-01-4	Vinyl Chloride	33.4	UQ	10.3	33.4	66.9	ug/Kg
74-83-9	Bromomethane	53.5	U	13.8	53.5	66.9	ug/Kg
75-00-3	Chloroethane	33.4	UQ	13.5	33.4	66.9	ug/Kg
75-69-4	Trichlorofluoromethane	53.5	U	12.2	53.5	66.9	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	33.4	U	14.3	33.4	66.9	ug/Kg
75-35-4	1,1-Dichloroethene	33.4	U	10.4	33.4	66.9	ug/Kg
67-64-1	Acetone	130	J	83.5	270	330	ug/Kg
75-15-0	Carbon Disulfide	53.5	U	17.1	53.5	66.9	ug/Kg
1634-04-4	Methyl tert-butyl Ether	33.4	UM	9.00	33.4	66.9	ug/Kg
75-09-2	Methylene Chloride	110	U	45.6	110	130	ug/Kg
156-60-5	trans-1,2-Dichloroethene	33.4	U	11.2	33.4	66.9	ug/Kg
75-34-3	1,1-Dichloroethane	33.4	U	8.40	33.4	66.9	ug/Kg
78-93-3	2-Butanone	270	U	76.0	270	330	ug/Kg
56-23-5	Carbon Tetrachloride	33.4	U	11.6	33.4	66.9	ug/Kg
156-59-2	cis-1,2-Dichloroethene	33.4	U	8.20	33.4	66.9	ug/Kg
67-66-3	Chloroform	53.5	U	9.00	53.5	66.9	ug/Kg
71-55-6	1,1,1-Trichloroethane	33.4	U	10.4	33.4	66.9	ug/Kg
108-87-2	Methylcyclohexane	33.4	UM	11.6	33.4	66.9	ug/Kg
71-43-2	Benzene	33.4	U	9.60	33.4	66.9	ug/Kg
107-06-2	1,2-Dichloroethane	33.4	U	8.20	33.4	66.9	ug/Kg
79-01-6	Trichloroethene	33.4	UM	10.0	33.4	66.9	ug/Kg
78-87-5	1,2-Dichloropropane	33.4	U	8.80	33.4	66.9	ug/Kg
75-27-4	Bromodichloromethane	33.4	U	7.50	33.4	66.9	ug/Kg
108-10-1	4-Methyl-2-Pentanone	170	U	58.2	170	330	ug/Kg
108-88-3	Toluene	33.4	U	9.00	33.4	66.9	ug/Kg
10061-02-6	t-1,3-Dichloropropene	33.4	U	8.00	33.4	66.9	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	33.4	U	7.60	33.4	66.9	ug/Kg
79-00-5	1,1,2-Trichloroethane	33.4	U	11.2	33.4	66.9	ug/Kg
591-78-6	2-Hexanone	170	U	64.1	170	330	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-725-727	SDG No.:	Q1380
Lab Sample ID:	Q1380-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	7.4
Sample Wt/Vol:	5.05 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
VY021241.D	1		02/19/25 16:59	VY021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	33.4	U	8.70	33.4	66.9	ug/Kg
127-18-4	Tetrachloroethene	33.4	UM	11.9	33.4	66.9	ug/Kg
108-90-7	Chlorobenzene	33.4	UM	9.90	33.4	66.9	ug/Kg
100-41-4	Ethyl Benzene	33.4	UM	8.30	33.4	66.9	ug/Kg
179601-23-1	m/p-Xylenes	66.9	UM	18.1	66.9	130	ug/Kg
95-47-6	o-Xylene	33.4	UM	9.40	33.4	66.9	ug/Kg
100-42-5	Styrene	33.4	UM	8.00	33.4	66.9	ug/Kg
75-25-2	Bromoform	33.4	U	10.8	33.4	66.9	ug/Kg
98-82-8	Isopropylbenzene	33.4	U	9.00	33.4	66.9	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	33.4	UM	14.7	33.4	66.9	ug/Kg
541-73-1	1,3-Dichlorobenzene	33.4	UM	9.90	33.4	66.9	ug/Kg
106-46-7	1,4-Dichlorobenzene	33.4	UM	10.7	33.4	66.9	ug/Kg
95-50-1	1,2-Dichlorobenzene	33.4	UM	7.90	33.4	66.9	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	66.6		71 - 136		133%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	50.3		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		79 - 119		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	224000	7.713				
540-36-3	1,4-Difluorobenzene	425000	8.622				
3114-55-4	Chlorobenzene-d5	405000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.353				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-725-727	SDG No.:	Q1380
Lab Sample ID:	Q1380-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	7.4
Sample Wt/Vol:	5.05 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
VY021241.D	1		02/19/25 16:59	VY021925

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/13/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-780-782	SDG No.:	Q1380
Lab Sample ID:	Q1380-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085790.D	1		02/19/25 15:08	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	9.50		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.90	J	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/13/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-780-782	SDG No.:	Q1380
Lab Sample ID:	Q1380-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085790.D	1		02/19/25 15:08	VN021925

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.5		81 - 118		115%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.8		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	260000	8.218				
540-36-3	1,4-Difluorobenzene	471000	9.1				
3114-55-4	Chlorobenzene-d5	404000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/13/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-780-782	SDG No.:	Q1380
Lab Sample ID:	Q1380-09	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085790.D	1		02/19/25 15:08	VN021925

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:	02/14/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	VPB192-HYD-20250214	SDG No.:	Q1380
Lab Sample ID:	Q1380-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085787.D	1		02/19/25 13:57	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.50	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.49	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	1.50		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	1.90	J	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/14/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	VPB192-HYD-20250214	SDG No.:	Q1380
Lab Sample ID:	Q1380-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085787.D	1		02/19/25 13:57	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	2.70		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	1.60		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.0		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	298000	8.218				
540-36-3	1,4-Difluorobenzene	540000	9.094				
3114-55-4	Chlorobenzene-d5	473000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	194000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/14/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	VPB192-HYD-20250214	SDG No.:	Q1380
Lab Sample ID:	Q1380-12	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085787.D	1		02/19/25 13:57	VN021925

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.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1380-06	BP-VPB-192-GW-725-727	1,2-Dichloroethane-d4	50	66.6	133		71	136
		Dibromofluoromethane	50	53.3	107		78	119
		Toluene-d8	50	50.3	101		85	116
		4-Bromofluorobenzene	50	53.7	107		79	119
Q1380-07MS	BP-VPB-192-GW-725-727MS	1,2-Dichloroethane-d4	50	40.9	82		71	136
		Dibromofluoromethane	50	39.9	80		78	119
		Toluene-d8	50	36.4	73	*	85	116
		4-Bromofluorobenzene	50	31.4	63	*	79	119
Q1380-08MSD	BP-VPB-192-GW-725-727MSD	1,2-Dichloroethane-d4	50	56.3	113		71	136
		Dibromofluoromethane	50	55.0	110		78	119
		Toluene-d8	50	50.0	100		85	116
		4-Bromofluorobenzene	50	42.4	85		79	119
VY0219SBL01	VY0219SBL01	1,2-Dichloroethane-d4	50	54.2	108		71	136
		Dibromofluoromethane	50	50.2	100		78	119
		Toluene-d8	50	49.6	99		85	116
		4-Bromofluorobenzene	50	47.8	96		79	119
VY0219SBS01	VY0219SBS01	1,2-Dichloroethane-d4	50	50.3	101		71	136
		Dibromofluoromethane	50	48.6	97		78	119
		Toluene-d8	50	47.3	95		85	116
		4-Bromofluorobenzene	50	50.7	101		79	119
VY0226SBL01	VY0226SBL01	1,2-Dichloroethane-d4	50	53.1	106		71	136
		Dibromofluoromethane	50	49.5	99		78	119
		Toluene-d8	50	49.1	98		85	116
		4-Bromofluorobenzene	50	50.1	100		79	119
VY0226SBS01	VY0226SBS01	1,2-Dichloroethane-d4	50	46.7	93		71	136
		Dibromofluoromethane	50	47.4	95		78	119
		Toluene-d8	50	47.6	95		85	116
		4-Bromofluorobenzene	50	47.3	95		79	119

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Surrogate Summary

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1380-01	BP-VPB-192-EB-20250212	1,2-Dichloroethane-d4	50	55.6	111	81	118
		Dibromofluoromethane	50	52.0	104	80	119
		Toluene-d8	50	51.0	102	89	112
		4-Bromofluorobenzene	50	49.5	99	85	114
Q1380-02	BP-VPB-192-TB-20250210	1,2-Dichloroethane-d4	50	57.5	115	81	118
		Dibromofluoromethane	50	52.9	106	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	47.8	96	85	114
Q1380-09	BP-VPB-192-GW-780-782	1,2-Dichloroethane-d4	50	57.5	115	81	118
		Dibromofluoromethane	50	53.5	107	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	45.8	92	85	114
Q1380-12	VPB192-HYD-20250214	1,2-Dichloroethane-d4	50	55.0	110	81	118
		Dibromofluoromethane	50	52.8	106	80	119
		Toluene-d8	50	50.4	101	89	112
		4-Bromofluorobenzene	50	48.2	96	85	114
VN0219WBL01	VN0219WBL01	1,2-Dichloroethane-d4	50	56.1	112	81	118
		Dibromofluoromethane	50	54.6	109	80	119
		Toluene-d8	50	51.9	104	89	112
		4-Bromofluorobenzene	50	48.1	96	85	114
VN0219WBS01	VN0219WBS01	1,2-Dichloroethane-d4	50	52.7	105	81	118
		Dibromofluoromethane	50	52.5	105	80	119
		Toluene-d8	50	54.8	110	89	112
		4-Bromofluorobenzene	50	56.0	112	85	114
VN0219WBSD0	VN0219WBSD01	1,2-Dichloroethane-d4	50	55.5	111	81	118
		Dibromofluoromethane	50	54.7	109	80	119
		Toluene-d8	50	55.1	110	89	112
		4-Bromofluorobenzene	50	56.6	113	85	114

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1380-07MS		**Client Sample ID : BP-VPB-192-GW-725-727MS**						**Datafile :** VY021342.D			
Chloromethane	670	0	520	ug/Kg	78				50	136	
Vinyl chloride	670	0	550	ug/Kg	82				56	135	
Bromomethane	670	0	550	ug/Kg	82				53	143	
Chloroethane	670	0	580	ug/Kg	87				59	139	
Trichlorofluoromethane	670	0	570	ug/Kg	85				62	140	
1,1,2-Trichlorotrifluoroethane	670	0	530	ug/Kg	79				66	136	
1,1-Dichloroethene	670	0	560	ug/Kg	84				70	131	
Acetone	3300	130	2600	ug/Kg	75				36	164	
Carbon disulfide	670	0	570	ug/Kg	85				63	132	
Methyl tert-butyl Ether	670	0	570	ug/Kg	85				73	125	
Methylene Chloride	670	0	590	ug/Kg	88				70	128	
trans-1,2-Dichloroethene	670	0	560	ug/Kg	84				74	125	
1,1-Dichloroethane	670	0	580	ug/Kg	87				76	125	
2-Butanone	3300	0	2500	ug/Kg	76				51	148	
Carbon Tetrachloride	670	0	520	ug/Kg	78				70	135	
cis-1,2-Dichloroethene	670	0	580	ug/Kg	87				77	123	
Chloroform	670	0	580	ug/Kg	87				78	123	
1,1,1-Trichloroethane	670	0	570	ug/Kg	85				73	130	
Methylcyclohexane	670	0	310	ug/Kg	46	*			66	133	
Benzene	670	0	540	ug/Kg	81				77	121	
1,2-Dichloroethane	670	0	550	ug/Kg	82				73	128	
Trichloroethene	670	0	510	ug/Kg	76	*			77	123	
1,2-Dichloropropane	670	0	540	ug/Kg	81				76	123	
Bromodichloromethane	670	0	560	ug/Kg	84				75	127	
4-Methyl-2-Pentanone	3300	0	2400	ug/Kg	73				65	135	
Toluene	670	0	520	ug/Kg	78				77	121	
t-1,3-Dichloropropene	670	0	520	ug/Kg	78				71	130	
cis-1,3-Dichloropropene	670	0	520	ug/Kg	78				74	126	
1,1,2-Trichloroethane	670	0	540	ug/Kg	81				78	121	
2-Hexanone	3300	0	2400	ug/Kg	73				53	145	
Dibromochloromethane	670	0	540	ug/Kg	81				74	126	
Tetrachloroethene	670	0	480	ug/Kg	72	*			73	128	
Chlorobenzene	670	0	510	ug/Kg	76	*			79	120	
Ethyl Benzene	670	0	500	ug/Kg	75	*			76	122	
m/p-Xylenes	1300	0	960	ug/Kg	74	*			77	124	
o-Xylene	670	0	500	ug/Kg	75	*			77	123	
Styrene	670	0	340	ug/Kg	51	*			76	124	
Bromoform	670	0	560	ug/Kg	84				67	132	
Isopropylbenzene	670	0	590	ug/Kg	88				68	134	
1,1,2,2-Tetrachloroethane	670	0	750	ug/Kg	112				70	124	
1,3-Dichlorobenzene	670	0	450	ug/Kg	67	*			77	121	
1,4-Dichlorobenzene	670	0	460	ug/Kg	69	*			75	120	
1,2-Dichlorobenzene	670	0	480	ug/Kg	72	*			78	121	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q1380-08MSD	**Client Sample ID :** BP-VPB-192-GW-725-727MSD							**Datafile :** VY021343.D			
Chloromethane	670	0	750	ug/Kg	112		36	*	50	136	20
Vinyl chloride	670	0	800	ug/Kg	119		37	*	56	135	20
Bromomethane	670	0	770	ug/Kg	115		33	*	53	143	20
Chloroethane	670	0	790	ug/Kg	118		31	*	59	139	20
Trichlorofluoromethane	670	0	810	ug/Kg	121		35	*	62	140	20
1,1,2-Trichlorotrifluoroethane	670	0	770	ug/Kg	115		37	*	66	136	20
1,1-Dichloroethene	670	0	800	ug/Kg	119		35	*	70	131	20
Acetone	3400	130	3900	ug/Kg	111		39	*	36	164	20
Carbon disulfide	670	0	790	ug/Kg	118		32	*	63	132	20
Methyl tert-butyl Ether	670	0	850	ug/Kg	127	*	39	*	73	125	20
Methylene Chloride	670	0	820	ug/Kg	122		33	*	70	128	20
trans-1,2-Dichloroethene	670	0	790	ug/Kg	118		34	*	74	125	20
1,1-Dichloroethane	670	0	800	ug/Kg	119		32	*	76	125	20
2-Butanone	3400	0	3900	ug/Kg	115		41	*	51	148	20
Carbon Tetrachloride	670	0	740	ug/Kg	110		35	*	70	135	20
cis-1,2-Dichloroethene	670	0	810	ug/Kg	121		33	*	77	123	20
Chloroform	670	0	810	ug/Kg	121		33	*	78	123	20
1,1,1-Trichloroethane	670	0	800	ug/Kg	119		34	*	73	130	20
Methylcyclohexane	670	0	480	ug/Kg	72		43	*	66	133	20
Benzene	670	0	770	ug/Kg	115		35	*	77	121	20
1,2-Dichloroethane	670	0	810	ug/Kg	121		38	*	73	128	20
Trichloroethene	670	0	730	ug/Kg	109		35	*	77	123	20
1,2-Dichloropropane	670	0	770	ug/Kg	115		35	*	76	123	20
Bromodichloromethane	670	0	790	ug/Kg	118		34	*	75	127	20
4-Methyl-2-Pentanone	3400	0	3900	ug/Kg	115		45	*	65	135	20
Toluene	670	0	740	ug/Kg	110		35	*	77	121	20
t-1,3-Dichloropropene	670	0	750	ug/Kg	112		36	*	71	130	20
cis-1,3-Dichloropropene	670	0	740	ug/Kg	110		35	*	74	126	20
1,1,2-Trichloroethane	670	0	810	ug/Kg	121		40	*	78	121	20
2-Hexanone	3400	0	3900	ug/Kg	115		45	*	53	145	20
Dibromochloromethane	670	0	790	ug/Kg	118		38	*	74	126	20
Tetrachloroethene	670	0	680	ug/Kg	101		34	*	73	128	20
Chlorobenzene	670	0	720	ug/Kg	107		34	*	79	120	20
Ethyl Benzene	670	0	710	ug/Kg	106		35	*	76	122	20
m/p-Xylenes	1300	0	1400	ug/Kg	108		37	*	77	124	20
o-Xylene	670	0	710	ug/Kg	106		35	*	77	123	20
Styrene	670	0	460	ug/Kg	69	*	30	*	76	124	20
Bromoform	670	0	820	ug/Kg	122		38	*	67	132	20
Isopropylbenzene	670	0	860	ug/Kg	128		37	*	68	134	20
1,1,2,2-Tetrachloroethane	670	0	1100	ug/Kg	164	*	38	*	70	124	20
1,3-Dichlorobenzene	670	0	660	ug/Kg	99		38	*	77	121	20
1,4-Dichlorobenzene	670	0	690	ug/Kg	103		40	*	75	120	20
1,2-Dichlorobenzene	670	0	720	ug/Kg	107		40	*	78	121	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VN085785.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0219WBS01	Chloromethane	20	17.2	ug/L	86			50	139	
	Vinyl chloride	20	17.2	ug/L	86			58	137	
	Bromomethane	20	17.2	ug/L	86			53	141	
	Chloroethane	20	17.0	ug/L	85			60	138	
	Trichlorofluoromethane	20	17.1	ug/L	86			65	141	
	1,1,2-Trichlorotrifluoroethane	20	17.7	ug/L	89			70	136	
	1,1-Dichloroethene	20	17.4	ug/L	87			71	131	
	Acetone	100	93.8	ug/L	94			39	160	
	Carbon disulfide	20	16.8	ug/L	84			64	133	
	Methyl tert-butyl Ether	20	17.9	ug/L	90			71	124	
	Methylene Chloride	20	16.8	ug/L	84			74	124	
	trans-1,2-Dichloroethene	20	17.0	ug/L	85			75	124	
	1,1-Dichloroethane	20	17.7	ug/L	89			77	125	
	2-Butanone	100	89.6	ug/L	90			56	143	
	Carbon Tetrachloride	20	17.5	ug/L	88			72	136	
	cis-1,2-Dichloroethene	20	17.6	ug/L	88			78	123	
	Chloroform	20	17.5	ug/L	88			79	124	
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	131	
	Methylcyclohexane	20	18.7	ug/L	94			72	132	
	Benzene	20	18.1	ug/L	91			79	120	
	1,2-Dichloroethane	20	17.7	ug/L	89			73	128	
	Trichloroethene	20	17.3	ug/L	86			79	123	
	1,2-Dichloropropane	20	17.8	ug/L	89			78	122	
	Bromodichloromethane	20	17.6	ug/L	88			79	125	
	4-Methyl-2-Pentanone	100	89.2	ug/L	89			67	130	
	Toluene	20	19.0	ug/L	95			80	121	
	t-1,3-Dichloropropene	20	18.6	ug/L	93			73	127	
	cis-1,3-Dichloropropene	20	18.5	ug/L	93			75	124	
	1,1,2-Trichloroethane	20	17.8	ug/L	89			80	119	
	2-Hexanone	100	94.1	ug/L	94			57	139	
	Dibromochloromethane	20	18.2	ug/L	91			74	126	
	Tetrachloroethene	20	18.0	ug/L	90			74	129	
	Chlorobenzene	20	17.9	ug/L	90			82	118	
	Ethyl Benzene	20	18.8	ug/L	94			79	121	
	m/p-Xylenes	40	38.9	ug/L	97			80	121	
	o-Xylene	20	19.1	ug/L	96			78	122	
	Styrene	20	18.7	ug/L	94			78	123	
	Bromoform	20	18.3	ug/L	92			66	130	
	Isopropylbenzene	20	18.8	ug/L	94			72	131	
	1,1,2,2-Tetrachloroethane	20	16.6	ug/L	83			71	121	
	1,3-Dichlorobenzene	20	17.8	ug/L	89			80	119	
	1,4-Dichlorobenzene	20	17.5	ug/L	88			79	118	
	1,2-Dichlorobenzene	20	17.5	ug/L	88			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VN085786.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0219WBSD01	Chloromethane	20	16.5	ug/L	83	4		50	139	20
	Vinyl chloride	20	16.8	ug/L	84	2		58	137	20
	Bromomethane	20	17.1	ug/L	86	0		53	141	20
	Chloroethane	20	16.2	ug/L	81	5		60	138	20
	Trichlorofluoromethane	20	16.7	ug/L	84	2		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	17.1	ug/L	86	3		70	136	20
	1,1-Dichloroethene	20	17.2	ug/L	86	1		71	131	20
	Acetone	100	90.3	ug/L	90	4		39	160	20
	Carbon disulfide	20	15.9	ug/L	79	6		64	133	20
	Methyl tert-butyl Ether	20	19.2	ug/L	96	6		71	124	20
	Methylene Chloride	20	17.2	ug/L	86	2		74	124	20
	trans-1,2-Dichloroethene	20	16.9	ug/L	85	0		75	124	20
	1,1-Dichloroethane	20	17.3	ug/L	86	3		77	125	20
	2-Butanone	100	91.4	ug/L	91	1		56	143	20
	Carbon Tetrachloride	20	17.0	ug/L	85	3		72	136	20
	cis-1,2-Dichloroethene	20	17.6	ug/L	88	0		78	123	20
	Chloroform	20	17.5	ug/L	88	0		79	124	20
	1,1,1-Trichloroethane	20	17.2	ug/L	86	2		74	131	20
	Methylcyclohexane	20	17.3	ug/L	86	9		72	132	20
	Benzene	20	17.8	ug/L	89	2		79	120	20
	1,2-Dichloroethane	20	18.2	ug/L	91	2		73	128	20
	Trichloroethene	20	16.7	ug/L	84	2		79	123	20
	1,2-Dichloropropane	20	18.1	ug/L	91	2		78	122	20
	Bromodichloromethane	20	18.0	ug/L	90	2		79	125	20
	4-Methyl-2-Pentanone	100	96.3	ug/L	96	8		67	130	20
	Toluene	20	18.8	ug/L	94	1		80	121	20
	t-1,3-Dichloropropene	20	18.7	ug/L	94	1		73	127	20
	cis-1,3-Dichloropropene	20	18.8	ug/L	94	1		75	124	20
	1,1,2-Trichloroethane	20	17.9	ug/L	90	1		80	119	20
	2-Hexanone	100	97.6	ug/L	98	4		57	139	20
	Dibromochloromethane	20	18.9	ug/L	95	4		74	126	20
	Tetrachloroethene	20	17.5	ug/L	88	2		74	129	20
	Chlorobenzene	20	17.5	ug/L	88	2		82	118	20
	Ethyl Benzene	20	17.9	ug/L	90	4		79	121	20
	m/p-Xylenes	40	37.6	ug/L	94	3		80	121	20
	o-Xylene	20	18.5	ug/L	93	3		78	122	20
	Styrene	20	18.1	ug/L	91	3		78	123	20
	Bromoform	20	18.5	ug/L	93	1		66	130	20
	Isopropylbenzene	20	18.1	ug/L	91	3		72	131	20
	1,1,2,2-Tetrachloroethane	20	17.6	ug/L	88	6		71	121	20
	1,3-Dichlorobenzene	20	17.4	ug/L	87	2		80	119	20
	1,4-Dichlorobenzene	20	17.1	ug/L	86	2		79	118	20
	1,2-Dichlorobenzene	20	17.1	ug/L	86	2		80	119	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D **Datafile :** VY021238.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0219SBS01	Chloromethane	20	30.0	ug/Kg	150		*	50	136	
	Vinyl chloride	20	29.0	ug/Kg	145		*	56	135	
	Bromomethane	20	28.3	ug/Kg	142			53	143	
	Chloroethane	20	29.1	ug/Kg	146		*	59	139	
	Trichlorofluoromethane	20	24.4	ug/Kg	122			62	140	
	1,1,2-Trichlorotrifluoroethane	20	23.3	ug/Kg	117			66	136	
	1,1-Dichloroethene	20	23.7	ug/Kg	119			70	131	
	Acetone	100	130	ug/Kg	130			36	164	
	Carbon disulfide	20	24.6	ug/Kg	123			63	132	
	Methyl tert-butyl Ether	20	23.4	ug/Kg	117			73	125	
	Methylene Chloride	20	24.3	ug/Kg	121			70	128	
	trans-1,2-Dichloroethene	20	23.4	ug/Kg	117			74	125	
	1,1-Dichloroethane	20	23.4	ug/Kg	117			76	125	
	2-Butanone	100	120	ug/Kg	120			51	148	
	Carbon Tetrachloride	20	21.4	ug/Kg	107			70	135	
	cis-1,2-Dichloroethene	20	23.0	ug/Kg	115			77	123	
	Chloroform	20	23.3	ug/Kg	117			78	123	
	1,1,1-Trichloroethane	20	22.7	ug/Kg	114			73	130	
	Methylcyclohexane	20	22.7	ug/Kg	114			66	133	
	Benzene	20	22.6	ug/Kg	113			77	121	
	1,2-Dichloroethane	20	22.7	ug/Kg	114			73	128	
	Trichloroethene	20	22.0	ug/Kg	110			77	123	
	1,2-Dichloropropane	20	22.6	ug/Kg	113			76	123	
	Bromodichloromethane	20	22.1	ug/Kg	111			75	127	
	4-Methyl-2-Pentanone	100	110	ug/Kg	110			65	135	
	Toluene	20	22.6	ug/Kg	113			77	121	
	t-1,3-Dichloropropene	20	21.9	ug/Kg	110			71	130	
	cis-1,3-Dichloropropene	20	22.2	ug/Kg	111			74	126	
	1,1,2-Trichloroethane	20	21.7	ug/Kg	109			78	121	
	2-Hexanone	100	110	ug/Kg	110			53	145	
	Dibromochloromethane	20	21.4	ug/Kg	107			74	126	
	Tetrachloroethene	20	21.8	ug/Kg	109			73	128	
	Chlorobenzene	20	21.9	ug/Kg	110			79	120	
	Ethyl Benzene	20	21.9	ug/Kg	110			76	122	
	m/p-Xylenes	40	45.1	ug/Kg	113			77	124	
	o-Xylene	20	22.4	ug/Kg	112			77	123	
	Styrene	20	22.2	ug/Kg	111			76	124	
	Bromoform	20	21.4	ug/Kg	107			67	132	
	Isopropylbenzene	20	21.3	ug/Kg	106			68	134	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/Kg	104			70	124	
	1,3-Dichlorobenzene	20	21.1	ug/Kg	106			77	121	
	1,4-Dichlorobenzene	20	21.1	ug/Kg	106			75	120	
	1,2-Dichlorobenzene	20	20.8	ug/Kg	104			78	121	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D **Datafile :** VY021322.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0226SBS01	Chloromethane	20	18.9	ug/Kg	95			50	136	
	Vinyl chloride	20	19.3	ug/Kg	97			56	135	
	Bromomethane	20	19.2	ug/Kg	96			53	143	
	Chloroethane	20	19.0	ug/Kg	95			59	139	
	Trichlorofluoromethane	20	19.0	ug/Kg	95			62	140	
	1,1,2-Trichlorotrifluoroethane	20	19.8	ug/Kg	99			66	136	
	1,1-Dichloroethene	20	19.0	ug/Kg	95			70	131	
	Acetone	100	94.9	ug/Kg	95			36	164	
	Carbon disulfide	20	18.6	ug/Kg	93			63	132	
	Methyl tert-butyl Ether	20	19.1	ug/Kg	96			73	125	
	Methylene Chloride	20	18.5	ug/Kg	93			70	128	
	trans-1,2-Dichloroethene	20	19.0	ug/Kg	95			74	125	
	1,1-Dichloroethane	20	19.1	ug/Kg	96			76	125	
	2-Butanone	100	92.9	ug/Kg	93			51	148	
	Carbon Tetrachloride	20	19.0	ug/Kg	95			70	135	
	cis-1,2-Dichloroethene	20	19.2	ug/Kg	96			77	123	
	Chloroform	20	19.3	ug/Kg	97			78	123	
	1,1,1-Trichloroethane	20	19.2	ug/Kg	96			73	130	
	Methylcyclohexane	20	18.9	ug/Kg	95			66	133	
	Benzene	20	19.3	ug/Kg	97			77	121	
	1,2-Dichloroethane	20	19.2	ug/Kg	96			73	128	
	Trichloroethene	20	19.2	ug/Kg	96			77	123	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			76	123	
	Bromodichloromethane	20	19.1	ug/Kg	96			75	127	
	4-Methyl-2-Pentanone	100	93.3	ug/Kg	93			65	135	
	Toluene	20	19.3	ug/Kg	97			77	121	
	t-1,3-Dichloropropene	20	19.0	ug/Kg	95			71	130	
	cis-1,3-Dichloropropene	20	19.3	ug/Kg	97			74	126	
	1,1,2-Trichloroethane	20	19.1	ug/Kg	96			78	121	
	2-Hexanone	100	93.8	ug/Kg	94			53	145	
	Dibromochloromethane	20	19.3	ug/Kg	97			74	126	
	Tetrachloroethene	20	19.2	ug/Kg	96			73	128	
	Chlorobenzene	20	19.0	ug/Kg	95			79	120	
	Ethyl Benzene	20	19.0	ug/Kg	95			76	122	
	m/p-Xylenes	40	38.8	ug/Kg	97			77	124	
	o-Xylene	20	19.3	ug/Kg	97			77	123	
	Styrene	20	19.3	ug/Kg	97			76	124	
	Bromoform	20	19.1	ug/Kg	96			67	132	
	Isopropylbenzene	20	19.1	ug/Kg	96			68	134	
	1,1,2,2-Tetrachloroethane	20	18.8	ug/Kg	94			70	124	
	1,3-Dichlorobenzene	20	19.1	ug/Kg	96			77	121	
	1,4-Dichlorobenzene	20	19.2	ug/Kg	96			75	120	
	1,2-Dichlorobenzene	20	18.8	ug/Kg	94			78	121	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0219WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VN085784.D Lab Sample ID: VN0219WBL01

Date Analyzed: 02/19/2025 Time Analyzed: 11:49

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

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0219WBS01	VN0219WBS01	VN085785.D	02/19/2025
VN0219WBSD01	VN0219WBSD01	VN085786.D	02/19/2025
VPB192-HYD-20250214	Q1380-12	VN085787.D	02/19/2025
BP-VPB-192-EB-20250212	Q1380-01	VN085788.D	02/19/2025
BP-VPB-192-TB-20250210	Q1380-02	VN085789.D	02/19/2025
BP-VPB-192-GW-780-782	Q1380-09	VN085790.D	02/19/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0219SBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021237.D Lab Sample ID: VY0219SBL01

Date Analyzed: 02/19/2025 Time Analyzed: 15:21

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
VY0219SBS01	VY0219SBS01	VY021238.D	02/19/2025
BP-VPB-192-GW-725-727	Q1380-06	VY021241.D	02/19/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0226SBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021321.D Lab Sample ID: VY0226SBL01

Date Analyzed: 02/26/2025 Time Analyzed: 10:50

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
VY0226SBS01	VY0226SBS01	VY021322.D	02/26/2025
BP-VPB-192-GW-725-727MS	Q1380-07MS	VY021342.D	02/26/2025
BP-VPB-192-GW-725-727MSD	Q1380-08MSD	VY021343.D	02/26/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VN085771.D BFB Injection Date: 02/18/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:35

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	49.7
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	1.4 (1.8) 1
174	50.0 - 100.0% of mass 95	81.7
175	5.0 - 9.0% of mass 174	6 (7.4) 1
176	95.0 - 101.0% of mass 174	78.9 (96.5) 1
177	5.0 - 9.0% of mass 176	5.4 (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
VSTDICC100	VSTDICC100	VN085772.D	02/18/2025	11:09
VSTDICCC050	VSTDICCC050	VN085773.D	02/18/2025	11:32
VSTDICC010	VSTDICC010	VN085775.D	02/18/2025	12:20
VSTDICC005	VSTDICC005	VN085776.D	02/18/2025	12:43
VSTDICC001	VSTDICC001	VN085777.D	02/18/2025	13:07
VSTDICC020	VSTDICC020	VN085779.D	02/18/2025	14:18

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VN085781.D BFB Injection Date: 02/19/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:14

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	49.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.3 (1.7) 1
174	50.0 - 100.0% of mass 95	75.8
175	5.0 - 9.0% of mass 174	6 (7.9) 1
176	95.0 - 101.0% of mass 174	76 (100.3) 1
177	5.0 - 9.0% of mass 176	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
VSTDCCC050	VSTDCCC050	VN085782.D	02/19/2025	10:51
VN0219WBL01	VN0219WBL01	VN085784.D	02/19/2025	11:49
VN0219WBS01	VN0219WBS01	VN085785.D	02/19/2025	12:49
VN0219WBSD01	VN0219WBSD01	VN085786.D	02/19/2025	13:22
VPB192-HYD-20250214	Q1380-12	VN085787.D	02/19/2025	13:57
BP-VPB-192-EB-20250212	Q1380-01	VN085788.D	02/19/2025	14:21
BP-VPB-192-TB-20250210	Q1380-02	VN085789.D	02/19/2025	14:45
BP-VPB-192-GW-780-782	Q1380-09	VN085790.D	02/19/2025	15:08
VSTDCCC050EC	VSTDCCC050	VN085792.D	02/19/2025	15:58

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021019.D BFB Injection Date: 02/03/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:51

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	15.3
75	30.0 - 60.0% of mass 95	49
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	89.7
175	5.0 - 9.0% of mass 174	7 (7.8) 1
176	95.0 - 101.0% of mass 174	87 (97) 1
177	5.0 - 9.0% of mass 176	5.9 (6.8) 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	VY021020.D	02/03/2025	10:35
VSTDICC010	VSTDICC010	VY021021.D	02/03/2025	10:57
VSTDICC020	VSTDICC020	VY021022.D	02/03/2025	11:20
VSTDICCC050	VSTDICCC050	VY021023.D	02/03/2025	11:43
VSTDICC100	VSTDICC100	VY021024.D	02/03/2025	12:21
VSTDICC150	VSTDICC150	VY021025.D	02/03/2025	12:44

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021235.D BFB Injection Date: 02/19/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:09

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	20.6
75	30.0 - 60.0% of mass 95	54.3
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 (1.3) 1
174	50.0 - 100.0% of mass 95	84.8
175	5.0 - 9.0% of mass 174	6.4 (7.6) 1
176	95.0 - 101.0% of mass 174	81.6 (96.3) 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
VSTDCCC050	VSTDCCC050	VY021236.D	02/19/2025	14:55
VY0219SBL01	VY0219SBL01	VY021237.D	02/19/2025	15:21
VY0219SBS01	VY0219SBS01	VY021238.D	02/19/2025	15:49
BP-VPB-192-GW-725-727	Q1380-06	VY021241.D	02/19/2025	16:59
VSTDCCC050EC	VSTDCCC050	VY021245.D	02/19/2025	18:32

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021308.D BFB Injection Date: 02/25/2025

Instrument ID: MSVOA_Y BFB Injection Time: 12:10

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	20.8
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.8) 1
174	50.0 - 100.0% of mass 95	84.7
175	5.0 - 9.0% of mass 174	6.4 (7.5) 1
176	95.0 - 101.0% of mass 174	83.6 (98.8) 1
177	5.0 - 9.0% of mass 176	5.5 (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
VSTDICC005	VSTDICC005	VY021309.D	02/25/2025	12:40
VSTDICC010	VSTDICC010	VY021310.D	02/25/2025	13:03
VSTDICC020	VSTDICC020	VY021311.D	02/25/2025	13:26
VSTDICCC050	VSTDICCC050	VY021312.D	02/25/2025	14:48
VSTDICC150	VSTDICC150	VY021314.D	02/25/2025	15:57
VSTDICC100	VSTDICC100	VY021316.D	02/25/2025	16:49

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021319.D BFB Injection Date: 02/26/2025

Instrument ID: MSVOA_Y BFB Injection Time: 09:12

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	21.5
75	30.0 - 60.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.2 (1.5) 1
174	50.0 - 100.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	6.5 (8.3) 1
176	95.0 - 101.0% of mass 174	75.9 (96.7) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 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	VY021320.D	02/26/2025	10:11
VY0226SBL01	VY0226SBL01	VY021321.D	02/26/2025	10:50
VY0226SBS01	VY0226SBS01	VY021322.D	02/26/2025	11:22
BP-VPB-192-GW-725-727MS	Q1380-07MS	VY021342.D	02/26/2025	19:21
BP-VPB-192-GW-725-727MSD	Q1380-08MSD	VY021343.D	02/26/2025	19:43
VSTDCCC050EC	VSTDCCC050	VY021344.D	02/26/2025	20:06

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VN085782.D Date Analyzed: 02/19/2025

Instrument ID: MSVOA_N Time Analyzed: 10:51

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	338951	8.22	542050	9.09	475442	11.86
UPPER LIMIT	677902	8.718	1084100	9.594	950884	12.359
LOWER LIMIT	169476	7.718	271025	8.594	237721	11.359
EPA SAMPLE NO.						
BP-VPB-192-EB-20250212	292071	8.22	537683	9.10	478583	11.86
BP-VPB-192-TB-20250210	264567	8.22	487878	9.10	434147	11.86
BP-VPB-192-GW-780-782	259651	8.22	470979	9.10	403744	11.87
VPB192-HYD-20250214	297765	8.22	540496	9.09	473230	11.86
VN0219WBL01	286037	8.22	514740	9.09	457806	11.86
VN0219WBS01	317605	8.22	521252	9.09	448364	11.86
VN0219WBSD01	291949	8.22	482343	9.09	419097	11.86

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.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VN085782.D Date Analyzed: 02/19/2025

Instrument ID: MSVOA_N Time Analyzed: 10:51

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

	IS4 AREA #	RT #				
12 HOUR STD	234508	13.788				
UPPER LIMIT	469016	14.288				
LOWER LIMIT	117254	13.288				
EPA SAMPLE NO.						
BP-VPB-192-EB-20250212	200119	13.79				
BP-VPB-192-TB-20250210	174960	13.79				
BP-VPB-192-GW-780-782	157449	13.79				
VPB192-HYD-20250214	194311	13.79				
VN0219WBL01	185142	13.79				
VN0219WBS01	214627	13.79				
VN0219WBSD01	199880	13.79				

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.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021236.D Date Analyzed: 02/19/2025

Instrument ID: MSVOA_Y Time Analyzed: 14:55

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	200462	7.72	311138	8.63	266562	11.43
UPPER LIMIT	400924	8.219	622276	9.128	533124	11.926
LOWER LIMIT	100231	7.219	155569	8.128	133281	10.926
EPA SAMPLE NO.						
BP-VPB-192-GW-725-727	223938	7.71	424683	8.62	405408	11.42
VY0219SBL01	252953	7.72	478949	8.62	429832	11.43
VY0219SBS01	187422	7.71	302089	8.62	255752	11.42

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.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021236.D Date Analyzed: 02/19/2025

Instrument ID: MSVOA_Y Time Analyzed: 14:55

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

	IS4 AREA #	RT #				
12 HOUR STD	126814	13.359				
UPPER LIMIT	253628	13.859				
LOWER LIMIT	63407	12.859				
EPA SAMPLE NO.						
BP-VPB-192-GW-725-727	161420	13.35				
VY0219SBL01	157077	13.35				
VY0219SBS01	127239	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021320.D Date Analyzed: 02/26/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:11

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	193888	7.71	308714	8.62	268805	11.42
UPPER LIMIT	387776	8.213	617428	9.116	537610	11.92
LOWER LIMIT	96944	7.213	154357	8.116	134403	10.92
EPA SAMPLE NO.						
BP-VPB-192-GW-725-727MS	157236	7.71	260195	8.62	210847	11.41
BP-VPB-192-GW-725-727MSD	137100	7.71	223153	8.62	181056	11.41
VY0226SBL01	251129	7.71	483695	8.62	470141	11.42
VY0226SBS01	184417	7.71	291138	8.62	254891	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.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: VY021320.D Date Analyzed: 02/26/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:11

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

	IS4 AREA #		RT #				
12 HOUR STD	131935		13.347				
UPPER LIMIT	263870		13.847				
LOWER LIMIT	65967.5		12.847				
EPA SAMPLE NO.							
BP-VPB-192-GW-725-727MS	76053		13.35				
BP-VPB-192-GW-725-727MSD	63404	*	13.35				
VY0226SBL01	192201		13.35				
VY0226SBS01	128725		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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0219WBL01	SDG No.:	Q1380
Lab Sample ID:	VN0219WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085784.D	1		02/19/25 11:49	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0219WBL01	SDG No.:	Q1380
Lab Sample ID:	VN0219WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085784.D	1		02/19/25 11:49	VN021925

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.1		81 - 118		112%	SPK: 50
1868-53-7	Dibromofluoromethane	54.6		80 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	51.9		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	286000	8.218				
540-36-3	1,4-Difluorobenzene	515000	9.094				
3114-55-4	Chlorobenzene-d5	458000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	185000	13.788				

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VY0219SBL01	SDG No.:	Q1380
Lab Sample ID:	VY0219SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021237.D	1		02/19/25 15:21	VY021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	2.50	U	1.20	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.77	2.50	5.00	ug/Kg
74-83-9	Bromomethane	4.00	U	1.00	4.00	5.00	ug/Kg
75-00-3	Chloroethane	2.50	U	1.00	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	4.00	U	0.91	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	0.78	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	6.20	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.30	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.67	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.40	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.84	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.63	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	5.70	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.87	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.61	2.50	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.67	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.78	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.87	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.72	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.61	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.66	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.56	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	4.40	12.5	25.0	ug/Kg
108-88-3	Toluene	2.50	U	0.67	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.60	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.57	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.84	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.5	U	4.80	12.5	25.0	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VY0219SBL01	SDG No.:	Q1380
Lab Sample ID:	VY0219SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021237.D	1		02/19/25 15:21	VY021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	2.50	U	0.65	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	0.89	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.74	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.62	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.40	5.00	10.0	ug/Kg
95-47-6	o-Xylene	2.50	U	0.70	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.60	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.81	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.67	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.10	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	0.74	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	0.80	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	0.59	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		71 - 136		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		78 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.6		85 - 116		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.8		79 - 119		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	253000	7.719				
540-36-3	1,4-Difluorobenzene	479000	8.622				
3114-55-4	Chlorobenzene-d5	430000	11.426				
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.352				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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J = Estimated Value
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N = Presumptive Evidence of a Compound
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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:	CTO WE13	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1380
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021321.D	1		02/26/25 10:50	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	2.50	U	1.20	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.77	2.50	5.00	ug/Kg
74-83-9	Bromomethane	4.00	U	1.00	4.00	5.00	ug/Kg
75-00-3	Chloroethane	2.50	U	1.00	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	4.00	U	0.91	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	0.78	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	6.20	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.30	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.67	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.40	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.84	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.63	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	5.70	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.87	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.61	2.50	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.67	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.78	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.87	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.72	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.61	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.66	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.56	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	4.40	12.5	25.0	ug/Kg
108-88-3	Toluene	2.50	U	0.67	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.60	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.57	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.84	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.5	U	4.80	12.5	25.0	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VY0226SBL01	SDG No.:	Q1380
Lab Sample ID:	VY0226SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021321.D	1		02/26/25 10:50	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	2.50	U	0.65	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	0.89	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.74	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.62	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.40	5.00	10.0	ug/Kg
95-47-6	o-Xylene	2.50	U	0.70	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.60	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.81	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.67	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.10	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	0.74	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	0.80	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	0.59	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.1		71 - 136		106%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		78 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.1		85 - 116		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		79 - 119		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	251000	7.713				
540-36-3	1,4-Difluorobenzene	484000	8.615				
3114-55-4	Chlorobenzene-d5	470000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	192000	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:	CTO WE13	Date Received:	
Client Sample ID:	VN0219WBS01	SDG No.:	Q1380
Lab Sample ID:	VN0219WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085785.D	1		02/19/25 12:49	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	17.2		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.2		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	17.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	17.0		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	17.1		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.7		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.4		0.26	0.75	1.00	ug/L
67-64-1	Acetone	93.8		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.8		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.9		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	16.8		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.0		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.7		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	89.6		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.5		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.6		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	17.5		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.19	0.50	1.00	ug/L
71-43-2	Benzene	18.1		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.7		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	17.3		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	17.8		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	17.6		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	89.2		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.0		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.6		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.5		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	94.1		1.10	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0219WBS01	SDG No.:	Q1380
Lab Sample ID:	VN0219WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085785.D	1		02/19/25 12:49	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	18.2		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.0		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	17.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.9		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.1		0.14	0.50	1.00	ug/L
100-42-5	Styrene	18.7		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	18.3		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.8		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	16.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.8		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.5		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.5		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.7		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	52.5		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	54.8		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.0		85 - 114		112%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	318000	8.218				
540-36-3	1,4-Difluorobenzene	521000	9.094				
3114-55-4	Chlorobenzene-d5	448000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	215000	13.788				

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VY0219SBS01	SDG No.:	Q1380
Lab Sample ID:	VY0219SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021238.D	1		02/19/25 15:49	VY021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	30.0		1.20	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	29.0		0.77	2.50	5.00	ug/Kg
74-83-9	Bromomethane	28.3		1.00	4.00	5.00	ug/Kg
75-00-3	Chloroethane	29.1		1.00	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	24.4		0.91	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	23.3		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	23.7		0.78	2.50	5.00	ug/Kg
67-64-1	Acetone	130		6.20	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	24.6		1.30	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	23.4		0.67	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.3		3.40	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	23.4		0.84	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	23.4		0.63	2.50	5.00	ug/Kg
78-93-3	2-Butanone	120		5.70	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.4		0.87	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	23.0		0.61	2.50	5.00	ug/Kg
67-66-3	Chloroform	23.3		0.67	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.7		0.78	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	22.7		0.87	2.50	5.00	ug/Kg
71-43-2	Benzene	22.6		0.72	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.7		0.61	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	22.0		0.75	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	22.6		0.66	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.1		0.56	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		4.40	12.5	25.0	ug/Kg
108-88-3	Toluene	22.6		0.67	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	21.9		0.60	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	22.2		0.57	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.7		0.84	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	110		4.80	12.5	25.0	ug/Kg

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VY0219SBS01	SDG No.:	Q1380
Lab Sample ID:	VY0219SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021238.D	1		02/19/25 15:49	VY021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	21.4		0.65	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.8		0.89	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	21.9		0.74	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.9		0.62	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	45.1		1.40	5.00	10.0	ug/Kg
95-47-6	o-Xylene	22.4		0.70	2.50	5.00	ug/Kg
100-42-5	Styrene	22.2		0.60	2.50	5.00	ug/Kg
75-25-2	Bromoform	21.4		0.81	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.3		0.67	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.7		1.10	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.1		0.74	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.1		0.80	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.8		0.59	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.3		71 - 136		101%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		78 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	47.3		85 - 116		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		79 - 119		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	187000	7.713				
540-36-3	1,4-Difluorobenzene	302000	8.622				
3114-55-4	Chlorobenzene-d5	256000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.352				

U = Not Detected
LOQ = Limit of Quantitation
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J = Estimated Value
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N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1380
Lab Sample ID:	VY0226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021322.D	1		02/26/25 11:22	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	18.9		1.20	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	19.3		0.77	2.50	5.00	ug/Kg
74-83-9	Bromomethane	19.2		1.00	4.00	5.00	ug/Kg
75-00-3	Chloroethane	19.0		1.00	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.0		0.91	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.8		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.0		0.78	2.50	5.00	ug/Kg
67-64-1	Acetone	94.9		6.20	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.6		1.30	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.1		0.67	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	18.5		3.40	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	19.0		0.84	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.1		0.63	2.50	5.00	ug/Kg
78-93-3	2-Butanone	92.9		5.70	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.0		0.87	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.2		0.61	2.50	5.00	ug/Kg
67-66-3	Chloroform	19.3		0.67	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.2		0.78	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.9		0.87	2.50	5.00	ug/Kg
71-43-2	Benzene	19.3		0.72	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.2		0.61	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	19.2		0.75	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.66	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.1		0.56	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	93.3		4.40	12.5	25.0	ug/Kg
108-88-3	Toluene	19.3		0.67	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.0		0.60	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.3		0.57	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.1		0.84	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	93.8		4.80	12.5	25.0	ug/Kg

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VY0226SBS01	SDG No.:	Q1380
Lab Sample ID:	VY0226SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% 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
VY021322.D	1		02/26/25 11:22	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	19.3		0.65	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.2		0.89	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	19.0		0.74	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.0		0.62	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.8		1.40	5.00	10.0	ug/Kg
95-47-6	o-Xylene	19.3		0.70	2.50	5.00	ug/Kg
100-42-5	Styrene	19.3		0.60	2.50	5.00	ug/Kg
75-25-2	Bromoform	19.1		0.81	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.67	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	18.8		1.10	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.1		0.74	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.2		0.80	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.8		0.59	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.7		71 - 136		93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		78 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	47.6		85 - 116		95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		79 - 119		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	184000	7.707				
540-36-3	1,4-Difluorobenzene	291000	8.615				
3114-55-4	Chlorobenzene-d5	255000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.346				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0219WBSD01	SDG No.:	Q1380
Lab Sample ID:	VN0219WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085786.D	1		02/19/25 13:22	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	16.5		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.8		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	17.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	16.2		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	16.7		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	17.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.2		0.26	0.75	1.00	ug/L
67-64-1	Acetone	90.3		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	15.9		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	17.2		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.9		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.3		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	91.4		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	17.0		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.6		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	17.5		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.2		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	17.3		0.19	0.50	1.00	ug/L
71-43-2	Benzene	17.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.2		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	16.7		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.1		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	18.0		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	96.3		0.75	2.50	5.00	ug/L
108-88-3	Toluene	18.8		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.7		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.8		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	97.6		1.10	2.50	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN0219WBSD01	SDG No.:	Q1380
Lab Sample ID:	VN0219WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	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
VN085786.D	1		02/19/25 13:22	VN021925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	18.9		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	17.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	17.5		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	17.9		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	37.6		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	18.5		0.14	0.50	1.00	ug/L
100-42-5	Styrene	18.1		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	18.5		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.1		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	17.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	17.4		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	17.1		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	17.1		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.5		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		80 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	55.1		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.6		85 - 114		113%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	292000	8.224				
540-36-3	1,4-Difluorobenzene	482000	9.094				
3114-55-4	Chlorobenzene-d5	419000	11.859				
3855-82-1	1,4-Dichlorobenzene-d4	200000	13.788				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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A = Aldol-Condensation Reaction Products

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-725-727MS	SDG No.:	Q1380
Lab Sample ID:	Q1380-07MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	7.4
Sample Wt/Vol:	5.07 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
VY021342.D	1		02/26/25 19:21	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	520		15.5	33.3	66.6	ug/Kg
75-01-4	Vinyl Chloride	550		10.3	33.3	66.6	ug/Kg
74-83-9	Bromomethane	550		13.7	53.3	66.6	ug/Kg
75-00-3	Chloroethane	580		13.5	33.3	66.6	ug/Kg
75-69-4	Trichlorofluoromethane	570		12.1	53.3	66.6	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	530		14.3	33.3	66.6	ug/Kg
75-35-4	1,1-Dichloroethene	560		10.4	33.3	66.6	ug/Kg
67-64-1	Acetone	2600		83.2	270	330	ug/Kg
75-15-0	Carbon Disulfide	570		17.1	53.3	66.6	ug/Kg
1634-04-4	Methyl tert-butyl Ether	570		8.90	33.3	66.6	ug/Kg
75-09-2	Methylene Chloride	590		45.4	110	130	ug/Kg
156-60-5	trans-1,2-Dichloroethene	560		11.2	33.3	66.6	ug/Kg
75-34-3	1,1-Dichloroethane	580		8.40	33.3	66.6	ug/Kg
78-93-3	2-Butanone	2500		75.7	270	330	ug/Kg
56-23-5	Carbon Tetrachloride	520		11.6	33.3	66.6	ug/Kg
156-59-2	cis-1,2-Dichloroethene	580		8.10	33.3	66.6	ug/Kg
67-66-3	Chloroform	580		8.90	53.3	66.6	ug/Kg
71-55-6	1,1,1-Trichloroethane	570		10.4	33.3	66.6	ug/Kg
108-87-2	Methylcyclohexane	310		11.6	33.3	66.6	ug/Kg
71-43-2	Benzene	540		9.60	33.3	66.6	ug/Kg
107-06-2	1,2-Dichloroethane	550		8.10	33.3	66.6	ug/Kg
79-01-6	Trichloroethene	510		10.0	33.3	66.6	ug/Kg
78-87-5	1,2-Dichloropropane	540		8.80	33.3	66.6	ug/Kg
75-27-4	Bromodichloromethane	560		7.50	33.3	66.6	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2400		58.0	170	330	ug/Kg
108-88-3	Toluene	520		8.90	33.3	66.6	ug/Kg
10061-02-6	t-1,3-Dichloropropene	520		8.00	33.3	66.6	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	520		7.60	33.3	66.6	ug/Kg
79-00-5	1,1,2-Trichloroethane	540		11.2	33.3	66.6	ug/Kg
591-78-6	2-Hexanone	2400		63.8	170	330	ug/Kg

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-725-727MS	SDG No.:	Q1380
Lab Sample ID:	Q1380-07MS	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	7.4
Sample Wt/Vol:	5.07 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
VY021342.D	1		02/26/25 19:21	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	540		8.70	33.3	66.6	ug/Kg
127-18-4	Tetrachloroethene	480		11.9	33.3	66.6	ug/Kg
108-90-7	Chlorobenzene	510		9.90	33.3	66.6	ug/Kg
100-41-4	Ethyl Benzene	500		8.30	33.3	66.6	ug/Kg
179601-23-1	m/p-Xylenes	960		18.0	66.6	130	ug/Kg
95-47-6	o-Xylene	500		9.30	33.3	66.6	ug/Kg
100-42-5	Styrene	340		8.00	33.3	66.6	ug/Kg
75-25-2	Bromoform	560		10.8	33.3	66.6	ug/Kg
98-82-8	Isopropylbenzene	590		8.90	33.3	66.6	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	750		14.7	33.3	66.6	ug/Kg
541-73-1	1,3-Dichlorobenzene	450		9.90	33.3	66.6	ug/Kg
106-46-7	1,4-Dichlorobenzene	460		10.7	33.3	66.6	ug/Kg
95-50-1	1,2-Dichlorobenzene	480		7.90	33.3	66.6	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	40.9		71 - 136		82%	SPK: 50
1868-53-7	Dibromofluoromethane	39.9		78 - 119		80%	SPK: 50
2037-26-5	Toluene-d8	36.4	*	85 - 116		73%	SPK: 50
460-00-4	4-Bromofluorobenzene	31.4	*	79 - 119		63%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	157000	7.707				
540-36-3	1,4-Difluorobenzene	260000	8.615				
3114-55-4	Chlorobenzene-d5	211000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	76100	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:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-725-727MSD	SDG No.:	Q1380
Lab Sample ID:	Q1380-08MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	7.4
Sample Wt/Vol:	5.02 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
VY021343.D	1		02/26/25 19:43	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	750		15.6	33.6	67.3	ug/Kg
75-01-4	Vinyl Chloride	800		10.4	33.6	67.3	ug/Kg
74-83-9	Bromomethane	770		13.9	53.8	67.3	ug/Kg
75-00-3	Chloroethane	790		13.6	33.6	67.3	ug/Kg
75-69-4	Trichlorofluoromethane	810		12.2	53.8	67.3	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	770		14.4	33.6	67.3	ug/Kg
75-35-4	1,1-Dichloroethene	800		10.5	33.6	67.3	ug/Kg
67-64-1	Acetone	3900		84.0	270	340	ug/Kg
75-15-0	Carbon Disulfide	790		17.2	53.8	67.3	ug/Kg
1634-04-4	Methyl tert-butyl Ether	850		9.00	33.6	67.3	ug/Kg
75-09-2	Methylene Chloride	820		45.9	110	130	ug/Kg
156-60-5	trans-1,2-Dichloroethene	790		11.3	33.6	67.3	ug/Kg
75-34-3	1,1-Dichloroethane	800		8.50	33.6	67.3	ug/Kg
78-93-3	2-Butanone	3900		76.5	270	340	ug/Kg
56-23-5	Carbon Tetrachloride	740		11.7	33.6	67.3	ug/Kg
156-59-2	cis-1,2-Dichloroethene	810		8.20	33.6	67.3	ug/Kg
67-66-3	Chloroform	810		9.00	53.8	67.3	ug/Kg
71-55-6	1,1,1-Trichloroethane	800		10.5	33.6	67.3	ug/Kg
108-87-2	Methylcyclohexane	480		11.7	33.6	67.3	ug/Kg
71-43-2	Benzene	770		9.70	33.6	67.3	ug/Kg
107-06-2	1,2-Dichloroethane	810		8.20	33.6	67.3	ug/Kg
79-01-6	Trichloroethene	730		10.1	33.6	67.3	ug/Kg
78-87-5	1,2-Dichloropropane	770		8.90	33.6	67.3	ug/Kg
75-27-4	Bromodichloromethane	790		7.50	33.6	67.3	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3900		58.5	170	340	ug/Kg
108-88-3	Toluene	740		9.00	33.6	67.3	ug/Kg
10061-02-6	t-1,3-Dichloropropene	750		8.10	33.6	67.3	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	740		7.70	33.6	67.3	ug/Kg
79-00-5	1,1,2-Trichloroethane	810		11.3	33.6	67.3	ug/Kg
591-78-6	2-Hexanone	3900		64.5	170	340	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/10/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-725-727MSD	SDG No.:	Q1380
Lab Sample ID:	Q1380-08MSD	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	7.4
Sample Wt/Vol:	5.02 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
VY021343.D	1		02/26/25 19:43	VY022625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	790		8.70	33.6	67.3	ug/Kg
127-18-4	Tetrachloroethene	680		12.0	33.6	67.3	ug/Kg
108-90-7	Chlorobenzene	720		10.0	33.6	67.3	ug/Kg
100-41-4	Ethyl Benzene	710		8.30	33.6	67.3	ug/Kg
179601-23-1	m/p-Xylenes	1400		18.2	67.3	130	ug/Kg
95-47-6	o-Xylene	710		9.40	33.6	67.3	ug/Kg
100-42-5	Styrene	460		8.10	33.6	67.3	ug/Kg
75-25-2	Bromoform	820		10.9	33.6	67.3	ug/Kg
98-82-8	Isopropylbenzene	860		9.00	33.6	67.3	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1100		14.8	33.6	67.3	ug/Kg
541-73-1	1,3-Dichlorobenzene	660		10.0	33.6	67.3	ug/Kg
106-46-7	1,4-Dichlorobenzene	690		10.8	33.6	67.3	ug/Kg
95-50-1	1,2-Dichlorobenzene	720		7.90	33.6	67.3	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.3		71 - 136		113%	SPK: 50
1868-53-7	Dibromofluoromethane	55.0		78 - 119		110%	SPK: 50
2037-26-5	Toluene-d8	50.1		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.4		79 - 119		85%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	137000	7.713				
540-36-3	1,4-Difluorobenzene	223000	8.616				
3114-55-4	Chlorobenzene-d5	181000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	63400	13.347				

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

Alliance TECHNICAL GROUP
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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18

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

LAB FILE ID: RRF100 = VN085772.D RRF050 = VN085773.D RRF010 = VN085775.D
RRF005 = VN085776.D RRF001 = VN085777.D RRF020 = VN085779.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	$\overline{RRF}$	% RSD
Chloromethane	0.647	0.622	0.742	0.662	0.817	0.604	0.682	11.9
Vinyl Chloride	0.698	0.678	0.796	0.729	0.761	0.674	0.723	6.7
Bromomethane	0.434	0.424	0.543	0.496		0.413	0.462	12.1
Chloroethane	0.447	0.417	0.516	0.470	0.584	0.438	0.479	12.9
Trichlorofluoromethane	1.010	0.959	1.134	1.065	1.103	1.006	1.046	6.3
1,1,2-Trichlorotrifluoroethane	0.602	0.564	0.674	0.635	0.554	0.599	0.605	7.4
1,1-Dichloroethene	0.555	0.527	0.591	0.571	0.514	0.531	0.548	5.3
Acetone	0.195	0.184	0.217	0.208	0.227	0.198	0.205	7.7
Carbon Disulfide	1.565	1.473	1.804	1.604	1.848	1.455	1.625	10.2
Methyl tert-butyl Ether	1.747	1.658	1.714	1.560	1.438	1.659	1.629	7
Methylene Chloride	0.628	0.593	0.710	0.666	0.736	0.625	0.660	8.3
trans-1,2-Dichloroethene	0.585	0.549	0.621	0.599	0.623	0.566	0.590	5.1
1,1-Dichloroethane	1.097	1.035	1.216	1.125	1.073	1.089	1.106	5.6
2-Butanone	0.308	0.294	0.331	0.299	0.279	0.299	0.302	5.6
Carbon Tetrachloride	0.573	0.528	0.583	0.545	0.533	0.538	0.550	4.1
cis-1,2-Dichloroethene	0.705	0.661	0.740	0.685	0.646	0.671	0.685	4.9
Chloroform	1.120	1.070	1.269	1.164	1.171	1.141	1.156	5.7
1,1,1-Trichloroethane	1.012	0.967	1.089	1.058	1.030	1.012	1.028	4.1
Methylcyclohexane	0.560	0.492	0.446	0.405	0.373	0.453	0.455	14.5
Benzene	1.581	1.441	1.568	1.421	1.420	1.474	1.484	4.9
1,2-Dichloroethane	0.499	0.456	0.527	0.464	0.472	0.483	0.483	5.4
Trichloroethene	0.370	0.339	0.384	0.350	0.395	0.348	0.364	6.1
1,2-Dichloropropane	0.377	0.347	0.385	0.344	0.339	0.357	0.358	5.2
Bromodichloromethane	0.569	0.518	0.571	0.533	0.512	0.541	0.541	4.6
4-Methyl-2-Pentanone	0.414	0.379	0.392	0.342	0.290	0.388	0.367	12.1
Toluene	0.993	0.902	0.924	0.820	0.689	0.891	0.870	12
t-1,3-Dichloropropene	0.576	0.521	0.518	0.471	0.408	0.505	0.500	11.3
cis-1,3-Dichloropropene	0.626	0.566	0.582	0.513	0.442	0.559	0.548	11.6
1,1,2-Trichloroethane	0.361	0.331	0.370	0.346	0.324	0.344	0.346	5
2-Hexanone	0.296	0.273	0.266	0.227	0.184	0.270	0.253	16

* 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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_N Calibration Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:18

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

LAB FILE ID: RRF100 = VN085772.D RRF050 = VN085773.D RRF010 = VN085775.D
RRF005 = VN085776.D RRF001 = VN085777.D RRF020 = VN085779.D

COMPOUND	RRF100	RRF050	RRF010	RRF005	RRF001	RRF020	$\overline{RRF}$	% RSD
Dibromochloromethane	0.440	0.402	0.431	0.384	0.355	0.405	0.403	7.7
Tetrachloroethene	0.384	0.361	0.420	0.391	0.393	0.375	0.387	5.2
Chlorobenzene	1.183	1.110	1.212	1.139	1.109	1.119	1.145	3.8
Ethyl Benzene	2.105	1.904	1.830	1.665	1.424	1.838	1.794	12.8
m/p-Xylenes	0.809	0.741	0.725	0.610	0.481	0.722	0.682	17.2
o-Xylene	0.771	0.704	0.666	0.584	0.502	0.659	0.648	14.5
Styrene	1.327	1.203	1.060	0.885	0.744	1.133	1.059	20.2
Bromoform	0.327	0.303	0.322	0.301	0.274	0.309	0.306	6.2
Isopropylbenzene	3.851	3.596	3.623	3.067	2.933	3.484	3.425	10.3
1,1,2,2-Tetrachloroethane	1.073	1.053	1.304	1.218	1.271	1.154	1.179	8.8
1,3-Dichlorobenzene	1.772	1.635	1.876	1.697	1.748	1.675	1.734	4.9
1,4-Dichlorobenzene	1.750	1.647	1.884	1.777	1.921	1.684	1.777	6.1
1,2-Dichlorobenzene	1.660	1.574	1.768	1.642	1.744	1.617	1.667	4.5
1,2-Dichloroethane-d4	0.698	0.613	0.588	0.767		0.575	0.648	12.6
Dibromofluoromethane	0.375	0.317	0.294	0.357		0.293	0.327	11.5
Toluene-d8	1.444	1.199	1.017	1.212		1.080	1.190	13.8
4-Bromofluorobenzene	0.503	0.419	0.323	0.370		0.346	0.392	18.2

* 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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:35 12:44

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

LAB FILE ID: RRF005 = VY021020.D RRF010 = VY021021.D RRF020 = VY021022.D
RRF050 = VY021023.D RRF100 = VY021024.D RRF150 = VY021025.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Chloromethane	0.524	0.445	0.408	0.421	0.404	0.437	0.440	10.1
Vinyl Chloride	0.535	0.441	0.404	0.424	0.408	0.443	0.443	10.9
Bromomethane	0.356	0.275	0.249	0.258	0.246	0.257	0.274	15.2
Chloroethane	0.316	0.270	0.240	0.255	0.239	0.261	0.263	10.7
Trichlorofluoromethane	0.924	0.814	0.755	0.789	0.743	0.813	0.806	8
1,1,2-Trichlorotrifluoroethane	0.587	0.507	0.472	0.494	0.466	0.510	0.506	8.6
1,1-Dichloroethene	0.529	0.471	0.441	0.469	0.452	0.498	0.477	6.8
Acetone	0.087	0.083	0.078	0.077	0.070	0.083	0.080	7.5
Carbon Disulfide	1.673	1.456	1.389	1.475	1.421	1.556	1.495	7
Methyl tert-butyl Ether	1.271	1.185	1.168	1.216	1.124	1.265	1.205	4.8
Methylene Chloride	0.570	0.506	0.473	0.485	0.452	0.494	0.497	8.2
trans-1,2-Dichloroethene	0.578	0.518	0.502	0.522	0.490	0.538	0.525	5.8
1,1-Dichloroethane	1.104	0.948	0.923	0.947	0.911	0.989	0.970	7.3
2-Butanone	0.134	0.133	0.126	0.135	0.121	0.139	0.131	5.2
Carbon Tetrachloride	0.604	0.551	0.522	0.547	0.522	0.581	0.555	5.9
cis-1,2-Dichloroethene	0.662	0.584	0.577	0.599	0.575	0.626	0.604	5.7
Chloroform	1.107	1.016	0.947	0.982	0.921	1.006	0.997	6.5
1,1,1-Trichloroethane	1.067	0.901	0.867	0.912	0.863	0.949	0.927	8.2
Methylcyclohexane	0.609	0.550	0.536	0.588	0.570	0.629	0.581	6.1
Benzene	1.512	1.382	1.327	1.378	1.323	1.436	1.393	5.1
1,2-Dichloroethane	0.435	0.390	0.367	0.379	0.352	0.395	0.386	7.4
Trichloroethene	0.401	0.355	0.341	0.349	0.338	0.375	0.360	6.7
1,2-Dichloropropane	0.357	0.329	0.319	0.327	0.311	0.341	0.331	5
Bromodichloromethane	0.528	0.500	0.469	0.482	0.459	0.506	0.491	5.2
4-Methyl-2-Pentanone	0.202	0.211	0.202	0.216	0.194	0.224	0.208	5.2
Toluene	0.913	0.856	0.840	0.876	0.844	0.918	0.875	3.9
t-1,3-Dichloropropene	0.441	0.426	0.419	0.449	0.427	0.483	0.441	5.3
cis-1,3-Dichloropropene	0.528	0.516	0.502	0.525	0.501	0.560	0.522	4.2
1,1,2-Trichloroethane	0.261	0.235	0.231	0.235	0.217	0.242	0.237	6.1
2-Hexanone	0.124	0.131	0.128	0.144	0.129	0.149	0.134	7.4

* 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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:35 12:44

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

LAB FILE ID: RRF005 = VY021020.D RRF010 = VY021021.D RRF020 = VY021022.D
RRF050 = VY021023.D RRF100 = VY021024.D RRF150 = VY021025.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dibromochloromethane	0.359	0.330	0.324	0.329	0.310	0.346	0.333	5.2
Tetrachloroethene	0.409	0.367	0.352	0.361	0.351	0.387	0.371	6.2
Chlorobenzene	1.237	1.115	1.054	1.080	1.048	1.146	1.113	6.4
Ethyl Benzene	2.101	1.899	1.865	1.943	1.914	2.093	1.969	5.2
m/p-Xylenes	0.772	0.723	0.709	0.733	0.711	0.773	0.737	3.9
o-Xylene	0.723	0.658	0.660	0.681	0.670	0.729	0.687	4.6
Styrene	1.154	1.118	1.105	1.156	1.128	1.208	1.145	3.2
Bromoform	0.231	0.222	0.217	0.216	0.205	0.229	0.220	4.4
Isopropylbenzene	4.122	3.695	3.673	3.809	3.871	4.263	3.906	6.1
1,1,2,2-Tetrachloroethane	0.707	0.646	0.635	0.632	0.597	0.680	0.650	6
1,3-Dichlorobenzene	1.937	1.686	1.660	1.683	1.652	1.824	1.740	6.6
1,4-Dichlorobenzene	1.906	1.702	1.632	1.665	1.599	1.778	1.714	6.6
1,2-Dichlorobenzene	1.668	1.524	1.440	1.460	1.405	1.567	1.510	6.4
1,2-Dichloroethane-d4	0.566	0.557	0.478	0.503	0.454	0.516	0.512	8.5
Dibromofluoromethane	0.351	0.326	0.301	0.313	0.297	0.333	0.320	6.4
Toluene-d8	1.295	1.237	1.139	1.202	1.158	1.288	1.220	5.3
4-Bromofluorobenzene	0.417	0.408	0.371	0.403	0.375	0.418	0.399	5.2

* 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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

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

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Chloromethane	0.709	0.628	0.566	0.602	0.597	0.570	0.612	8.6
Vinyl Chloride	0.648	0.591	0.554	0.627	0.606	0.580	0.601	5.6
Bromomethane	0.505	0.414	0.361	0.387	0.371	0.359	0.399	13.9
Chloroethane	0.414	0.365	0.347	0.390	0.365	0.355	0.373	6.7
Trichlorofluoromethane	0.976	0.915	0.838	0.936	0.909	0.870	0.908	5.3
1,1,2-Trichlorotrifluoroethane	0.546	0.529	0.491	0.537	0.541	0.508	0.525	4.1
1,1-Dichloroethene	0.545	0.489	0.462	0.515	0.518	0.490	0.503	5.7
Acetone	0.122	0.102	0.094	0.128	0.104	0.103	0.109	11.9
Carbon Disulfide	1.800	1.652	1.540	1.734	1.678	1.620	1.671	5.4
Methyl tert-butyl Ether	1.312	1.268	1.267	1.410	1.410	1.307	1.329	4.9
Methylene Chloride	0.733	0.598	0.539	0.585	0.547	0.529	0.588	12.8
trans-1,2-Dichloroethene	0.589	0.536	0.507	0.573	0.570	0.547	0.554	5.4
1,1-Dichloroethane	1.101	1.032	0.961	1.083	1.058	1.007	1.040	4.9
2-Butanone	0.162	0.155	0.156	0.183	0.171	0.159	0.164	6.5
Carbon Tetrachloride	0.567	0.562	0.509	0.581	0.567	0.535	0.554	4.8
cis-1,2-Dichloroethene	0.649	0.610	0.588	0.665	0.656	0.626	0.632	4.7
Chloroform	1.128	1.046	0.977	1.095	1.062	1.017	1.054	5.1
1,1,1-Trichloroethane	1.020	0.956	0.889	0.986	0.979	0.927	0.960	4.8
Methylcyclohexane	0.597	0.613	0.584	0.662	0.663	0.618	0.623	5.3
Benzene	1.515	1.445	1.359	1.533	1.472	1.409	1.456	4.5
1,2-Dichloroethane	0.422	0.417	0.393	0.434	0.419	0.394	0.413	3.9
Trichloroethene	0.375	0.360	0.341	0.382	0.375	0.354	0.364	4.3
1,2-Dichloropropane	0.360	0.350	0.329	0.371	0.357	0.336	0.350	4.5
Bromodichloromethane	0.519	0.503	0.477	0.541	0.528	0.495	0.511	4.5
4-Methyl-2-Pentanone	0.220	0.227	0.239	0.267	0.264	0.238	0.243	7.9
Toluene	0.887	0.888	0.852	0.965	0.936	0.897	0.904	4.4
t-1,3-Dichloropropene	0.438	0.436	0.434	0.515	0.509	0.474	0.468	8
cis-1,3-Dichloropropene	0.541	0.526	0.528	0.591	0.581	0.546	0.552	5
1,1,2-Trichloroethane	0.250	0.251	0.238	0.267	0.254	0.237	0.249	4.4
2-Hexanone	0.133	0.146	0.155	0.183	0.178	0.162	0.159	11.9

* 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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Calibration Time(s): 12:40 16:49

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

LAB FILE ID: RRF005 = VY021309.D RRF010 = VY021310.D RRF020 = VY021311.D
RRF050 = VY021312.D RRF150 = VY021314.D RRF100 = VY021316.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF150	RRF100	$\overline{RRF}$	% RSD
Dibromochloromethane	0.340	0.325	0.322	0.368	0.352	0.332	0.340	5.2
Tetrachloroethene	0.405	0.380	0.351	0.389	0.386	0.355	0.378	5.5
Chlorobenzene	1.171	1.111	1.039	1.176	1.159	1.078	1.122	5
Ethyl Benzene	1.938	1.941	1.826	2.130	2.115	1.979	1.988	5.8
m/p-Xylenes	0.735	0.738	0.696	0.802	0.783	0.733	0.748	5.1
o-Xylene	0.689	0.675	0.648	0.758	0.739	0.694	0.701	5.9
Styrene	1.081	1.128	1.091	1.277	1.257	1.159	1.166	7.2
Bromoform	0.221	0.221	0.211	0.246	0.236	0.214	0.225	5.9
Isopropylbenzene	3.744	3.605	3.437	3.976	4.009	3.783	3.759	5.8
1,1,2,2-Tetrachloroethane	0.700	0.649	0.621	0.697	0.689	0.624	0.663	5.5
1,3-Dichlorobenzene	1.812	1.729	1.598	1.792	1.777	1.668	1.730	4.8
1,4-Dichlorobenzene	1.825	1.710	1.593	1.751	1.744	1.629	1.709	5
1,2-Dichlorobenzene	1.599	1.499	1.408	1.575	1.564	1.446	1.515	5.1
1,2-Dichloroethane-d4	0.681	0.510	0.548	0.551	0.566	0.547	0.567	10.3
Dibromofluoromethane	0.370	0.299	0.317	0.325	0.334	0.322	0.328	7.2
Toluene-d8	1.420	1.158	1.230	1.251	1.290	1.253	1.267	6.8
4-Bromofluorobenzene	0.490	0.387	0.404	0.423	0.435	0.420	0.426	8.2

* 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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_N Calibration Date/Time: 02/19/2025 10:51

Lab File ID: VN085782.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.682	0.646	0.1	-5.28	20
Vinyl Chloride	0.723	0.697		-3.6	20
Bromomethane	0.462	0.446		-3.46	20
Chloroethane	0.479	0.437		-8.77	20
Trichlorofluoromethane	1.046	1.027		-1.82	20
1,1,2-Trichlorotrifluoroethane	0.605	0.611		0.99	20
1,1-Dichloroethene	0.548	0.559		2.01	20
Acetone	0.205	0.226		10.24	20
Carbon Disulfide	1.625	1.544		-4.99	20
Methyl tert-butyl Ether	1.629	1.743		7	20
Methylene Chloride	0.660	0.628		-4.85	20
trans-1,2-Dichloroethene	0.590	0.594		0.68	20
1,1-Dichloroethane	1.106	1.094	0.1	-1.09	20
2-Butanone	0.302	0.308		1.99	20
Carbon Tetrachloride	0.550	0.568		3.27	20
cis-1,2-Dichloroethene	0.685	0.703		2.63	20
Chloroform	1.156	1.135		-1.82	20
1,1,1-Trichloroethane	1.028	1.025		-0.29	20
Methylcyclohexane	0.455	0.542		19.12	20
Benzene	1.484	1.556		4.85	20
1,2-Dichloroethane	0.483	0.496		2.69	20
Trichloroethene	0.364	0.377		3.57	20
1,2-Dichloropropane	0.358	0.379		5.87	20
Bromodichloromethane	0.541	0.561		3.7	20
4-Methyl-2-Pentanone	0.367	0.383		4.36	20
Toluene	0.870	0.975		12.07	20
t-1,3-Dichloropropene	0.500	0.556		11.2	20
cis-1,3-Dichloropropene	0.548	0.612		11.68	20
1,1,2-Trichloroethane	0.346	0.356		2.89	20
2-Hexanone	0.253	0.281		11.07	20
Dibromochloromethane	0.403	0.435		7.94	20
Tetrachloroethene	0.387	0.415		7.24	20
Chlorobenzene	1.145	1.191	0.3	4.02	20
Ethyl Benzene	1.794	2.061		14.88	20
m/p-Xylenes	0.682	0.811		18.92	20
o-Xylene	0.648	0.758		16.98	20
Styrene	1.059	1.287		21.53	20
Bromoform	0.306	0.323	0.1	5.56	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_N Calibration Date/Time: 02/19/2025 10:51

Lab File ID: VN085782.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.425	3.921		14.48	20
1,1,2,2-Tetrachloroethane	1.179	1.058	0.3	-10.26	20
1,3-Dichlorobenzene	1.734	1.791		3.29	20
1,4-Dichlorobenzene	1.777	1.777		0	20
1,2-Dichlorobenzene	1.667	1.704		2.22	20
1,2-Dichloroethane-d4	0.648	0.646		-0.31	20
Dibromofluoromethane	0.327	0.346		5.81	20
Toluene-d8	1.190	1.302		9.41	20
4-Bromofluorobenzene	0.392	0.446		13.78	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_N Calibration Date/Time: 02/19/2025 15:58

Lab File ID: VN085792.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.682	0.587	0.1	-13.93	50
Vinyl Chloride	0.723	0.619		-14.39	50
Bromomethane	0.462	0.383		-17.1	50
Chloroethane	0.479	0.387		-19.21	50
Trichlorofluoromethane	1.046	0.878		-16.06	50
1,1,2-Trichlorotrifluoroethane	0.605	0.528		-12.73	50
1,1-Dichloroethene	0.548	0.485		-11.5	50
Acetone	0.205	0.209		1.95	50
Carbon Disulfide	1.625	1.344		-17.29	50
Methyl tert-butyl Ether	1.629	1.563		-4.05	50
Methylene Chloride	0.660	0.553		-16.21	50
trans-1,2-Dichloroethene	0.590	0.517		-12.37	50
1,1-Dichloroethane	1.106	0.983	0.1	-11.12	50
2-Butanone	0.302	0.305		0.99	50
Carbon Tetrachloride	0.550	0.492		-10.55	50
cis-1,2-Dichloroethene	0.685	0.618		-9.78	50
Chloroform	1.156	1.018		-11.94	50
1,1,1-Trichloroethane	1.028	0.904		-12.06	50
Methylcyclohexane	0.455	0.466		2.42	50
Benzene	1.484	1.377		-7.21	50
1,2-Dichloroethane	0.483	0.446		-7.66	50
Trichloroethene	0.364	0.323		-11.26	50
1,2-Dichloropropane	0.358	0.334		-6.7	50
Bromodichloromethane	0.541	0.500		-7.58	50
4-Methyl-2-Pentanone	0.367	0.380		3.54	50
Toluene	0.870	0.868		-0.23	50
t-1,3-Dichloropropene	0.500	0.505		1	50
cis-1,3-Dichloropropene	0.548	0.542		-1.1	50
1,1,2-Trichloroethane	0.346	0.323		-6.65	50
2-Hexanone	0.253	0.280		10.67	50
Dibromochloromethane	0.403	0.389		-3.47	50
Tetrachloroethene	0.387	0.337		-12.92	50
Chlorobenzene	1.145	1.033	0.3	-9.78	50
Ethyl Benzene	1.794	1.793		-0.06	50
m/p-Xylenes	0.682	0.704		3.23	50
o-Xylene	0.648	0.665		2.62	50
Styrene	1.059	1.140		7.65	50
Bromoform	0.306	0.290	0.1	-5.23	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_N Calibration Date/Time: 02/19/2025 15:58

Lab File ID: VN085792.D Init. Calib. Date(s): 02/18/2025 02/18/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:18

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.425	3.305		-3.5	50
1,1,2,2-Tetrachloroethane	1.179	0.989	0.3	-16.11	50
1,3-Dichlorobenzene	1.734	1.516		-12.57	50
1,4-Dichlorobenzene	1.777	1.504		-15.36	50
1,2-Dichlorobenzene	1.667	1.463		-12.24	50
1,2-Dichloroethane-d4	0.648	0.661		2.01	50
Dibromofluoromethane	0.327	0.345		5.51	50
Toluene-d8	1.190	1.326		11.43	50
4-Bromofluorobenzene	0.392	0.465		18.62	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date/Time: 02/19/2025 14:55

Lab File ID: VY021236.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.440	0.431	0.1	-2.05	20
Vinyl Chloride	0.443	0.466		5.19	20
Bromomethane	0.274	0.268		-2.19	20
Chloroethane	0.263	0.286		8.74	20
Trichlorofluoromethane	0.806	0.806		0	20
1,1,2-Trichlorotrifluoroethane	0.506	0.489		-3.36	20
1,1-Dichloroethene	0.477	0.455		-4.61	20
Acetone	0.080	0.083		3.75	20
Carbon Disulfide	1.495	1.273		-14.85	20
Methyl tert-butyl Ether	1.205	1.247		3.48	20
Methylene Chloride	0.497	0.494		-0.6	20
trans-1,2-Dichloroethene	0.525	0.503		-4.19	20
1,1-Dichloroethane	0.970	0.977	0.1	0.72	20
2-Butanone	0.131	0.135		3.05	20
Carbon Tetrachloride	0.555	0.538		-3.06	20
cis-1,2-Dichloroethene	0.604	0.603		-0.17	20
Chloroform	0.997	1.001		0.4	20
1,1,1-Trichloroethane	0.927	0.926		-0.11	20
Methylcyclohexane	0.581	0.580		-0.17	20
Benzene	1.393	1.364		-2.08	20
1,2-Dichloroethane	0.386	0.384		-0.52	20
Trichloroethene	0.360	0.351		-2.5	20
1,2-Dichloropropane	0.331	0.339		2.42	20
Bromodichloromethane	0.491	0.497		1.22	20
4-Methyl-2-Pentanone	0.208	0.218		4.81	20
Toluene	0.875	0.869		-0.69	20
t-1,3-Dichloropropene	0.441	0.461		4.53	20
cis-1,3-Dichloropropene	0.522	0.538		3.07	20
1,1,2-Trichloroethane	0.237	0.237		0	20
2-Hexanone	0.134	0.144		7.46	20
Dibromochloromethane	0.333	0.339		1.8	20
Tetrachloroethene	0.371	0.356		-4.04	20
Chlorobenzene	1.113	1.109	0.3	-0.36	20
Ethyl Benzene	1.969	1.992		1.17	20
m/p-Xylenes	0.737	0.734		-0.41	20
o-Xylene	0.687	0.708		3.06	20
Styrene	1.145	1.182		3.23	20
Bromoform	0.220	0.219	0.1	-0.46	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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Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date/Time: 02/19/2025 14:55

Lab File ID: VY021236.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.906	4.141		6.02	20
1,1,2,2-Tetrachloroethane	0.650	0.643	0.3	-1.08	20
1,3-Dichlorobenzene	1.740	1.736		-0.23	20
1,4-Dichlorobenzene	1.714	1.688		-1.52	20
1,2-Dichlorobenzene	1.510	1.502		-0.53	20
1,2-Dichloroethane-d4	0.512	0.470		-8.2	20
Dibromofluoromethane	0.320	0.299		-6.56	20
Toluene-d8	1.220	1.094		-10.33	20
4-Bromofluorobenzene	0.399	0.376		-5.76	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date/Time: 02/19/2025 18:32

Lab File ID: VY021245.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.440	0.469	0.1	6.59	50
Vinyl Chloride	0.443	0.496		11.96	50
Bromomethane	0.274	0.311		13.5	50
Chloroethane	0.263	0.322		22.43	50
Trichlorofluoromethane	0.806	0.844		4.72	50
1,1,2-Trichlorotrifluoroethane	0.506	0.518		2.37	50
1,1-Dichloroethene	0.477	0.484		1.47	50
Acetone	0.080	0.095		18.75	50
Carbon Disulfide	1.495	1.357		-9.23	50
Methyl tert-butyl Ether	1.205	1.416		17.51	50
Methylene Chloride	0.497	0.568		14.29	50
trans-1,2-Dichloroethene	0.525	0.540		2.86	50
1,1-Dichloroethane	0.970	1.082	0.1	11.55	50
2-Butanone	0.131	0.161		22.9	50
Carbon Tetrachloride	0.555	0.556		0.18	50
cis-1,2-Dichloroethene	0.604	0.666		10.27	50
Chloroform	0.997	1.114		11.73	50
1,1,1-Trichloroethane	0.927	0.983		6.04	50
Methylcyclohexane	0.581	0.577		-0.69	50
Benzene	1.393	1.472		5.67	50
1,2-Dichloroethane	0.386	0.422		9.33	50
Trichloroethene	0.360	0.362		0.56	50
1,2-Dichloropropane	0.331	0.367		10.88	50
Bromodichloromethane	0.491	0.541		10.18	50
4-Methyl-2-Pentanone	0.208	0.254		22.11	50
Toluene	0.875	0.924		5.6	50
t-1,3-Dichloropropene	0.441	0.497		12.7	50
cis-1,3-Dichloropropene	0.522	0.577		10.54	50
1,1,2-Trichloroethane	0.237	0.265		11.81	50
2-Hexanone	0.134	0.169		26.12	50
Dibromochloromethane	0.333	0.364		9.31	50
Tetrachloroethene	0.371	0.361		-2.69	50
Chlorobenzene	1.113	1.160	0.3	4.22	50
Ethyl Benzene	1.969	2.074		5.33	50
m/p-Xylenes	0.737	0.768		4.21	50
o-Xylene	0.687	0.734		6.84	50
Styrene	1.145	1.245		8.73	50
Bromoform	0.220	0.242	0.1	10	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date/Time: 02/19/2025 18:32

Lab File ID: VY021245.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.906	3.853		-1.36	50
1,1,2,2-Tetrachloroethane	0.650	0.684	0.3	5.23	50
1,3-Dichlorobenzene	1.740	1.731		-0.52	50
1,4-Dichlorobenzene	1.714	1.677		-2.16	50
1,2-Dichlorobenzene	1.510	1.520		0.66	50
1,2-Dichloroethane-d4	0.512	0.533		4.1	50
Dibromofluoromethane	0.320	0.323		0.94	50
Toluene-d8	1.220	1.195		-2.05	50
4-Bromofluorobenzene	0.399	0.423		6.01	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 10:11

Lab File ID: VY021320.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.612	0.581	0.1	-5.07	20
Vinyl Chloride	0.601	0.586		-2.5	20
Bromomethane	0.399	0.370		-7.27	20
Chloroethane	0.373	0.363		-2.68	20
Trichlorofluoromethane	0.908	0.866		-4.63	20
1,1,2-Trichlorotrifluoroethane	0.525	0.496		-5.52	20
1,1-Dichloroethene	0.503	0.487		-3.18	20
Acetone	0.109	0.113		3.67	20
Carbon Disulfide	1.671	1.628		-2.57	20
Methyl tert-butyl Ether	1.329	1.308		-1.58	20
Methylene Chloride	0.588	0.533		-9.35	20
trans-1,2-Dichloroethene	0.554	0.540		-2.53	20
1,1-Dichloroethane	1.040	1.021	0.1	-1.83	20
2-Butanone	0.164	0.162		-1.22	20
Carbon Tetrachloride	0.554	0.536		-3.25	20
cis-1,2-Dichloroethene	0.632	0.633		0.16	20
Chloroform	1.054	1.038		-1.52	20
1,1,1-Trichloroethane	0.960	0.936		-2.5	20
Methylcyclohexane	0.623	0.578		-7.22	20
Benzene	1.456	1.415		-2.82	20
1,2-Dichloroethane	0.413	0.396		-4.12	20
Trichloroethene	0.364	0.355		-2.47	20
1,2-Dichloropropane	0.350	0.341		-2.57	20
Bromodichloromethane	0.511	0.494		-3.33	20
4-Methyl-2-Pentanone	0.243	0.234		-3.7	20
Toluene	0.904	0.892		-1.33	20
t-1,3-Dichloropropene	0.468	0.468		0	20
cis-1,3-Dichloropropene	0.552	0.543		-1.63	20
1,1,2-Trichloroethane	0.249	0.236		-5.22	20
2-Hexanone	0.159	0.159		0	20
Dibromochloromethane	0.340	0.332		-2.35	20
Tetrachloroethene	0.378	0.359		-5.03	20
Chlorobenzene	1.122	1.091	0.3	-2.76	20
Ethyl Benzene	1.988	1.972		-0.81	20
m/p-Xylenes	0.748	0.735		-1.74	20
o-Xylene	0.701	0.696		-0.71	20
Styrene	1.166	1.176		0.86	20
Bromoform	0.225	0.217	0.1	-3.56	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 10:11

Lab File ID: VY021320.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.759	3.742		-0.45	20
1,1,2,2-Tetrachloroethane	0.663	0.639	0.3	-3.62	20
1,3-Dichlorobenzene	1.730	1.676		-3.12	20
1,4-Dichlorobenzene	1.709	1.633		-4.45	20
1,2-Dichlorobenzene	1.515	1.469		-3.04	20
1,2-Dichloroethane-d4	0.567	0.544		-4.06	20
Dibromofluoromethane	0.328	0.320		-2.44	20
Toluene-d8	1.267	1.257		-0.79	20
4-Bromofluorobenzene	0.426	0.420		-1.41	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 20:06

Lab File ID: VY021344.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.612	0.566	0.1	-7.52	50
Vinyl Chloride	0.601	0.577		-3.99	50
Bromomethane	0.399	0.382		-4.26	50
Chloroethane	0.373	0.374		0.27	50
Trichlorofluoromethane	0.908	0.871		-4.07	50
1,1,2-Trichlorotrifluoroethane	0.525	0.494		-5.91	50
1,1-Dichloroethene	0.503	0.489		-2.78	50
Acetone	0.109	0.098		-10.09	50
Carbon Disulfide	1.671	1.626		-2.69	50
Methyl tert-butyl Ether	1.329	1.439		8.28	50
Methylene Chloride	0.588	0.567		-3.57	50
trans-1,2-Dichloroethene	0.554	0.566		2.17	50
1,1-Dichloroethane	1.040	1.051	0.1	1.06	50
2-Butanone	0.164	0.166		1.22	50
Carbon Tetrachloride	0.554	0.520		-6.14	50
cis-1,2-Dichloroethene	0.632	0.663		4.91	50
Chloroform	1.054	1.085		2.94	50
1,1,1-Trichloroethane	0.960	0.958		-0.21	50
Methylcyclohexane	0.623	0.557		-10.59	50
Benzene	1.456	1.421		-2.4	50
1,2-Dichloroethane	0.413	0.419		1.45	50
Trichloroethene	0.364	0.352		-3.3	50
1,2-Dichloropropane	0.350	0.341		-2.57	50
Bromodichloromethane	0.511	0.511		0	50
4-Methyl-2-Pentanone	0.243	0.248		2.06	50
Toluene	0.904	0.897		-0.77	50
t-1,3-Dichloropropene	0.468	0.465		-0.64	50
cis-1,3-Dichloropropene	0.552	0.534		-3.26	50
1,1,2-Trichloroethane	0.249	0.254		2.01	50
2-Hexanone	0.159	0.166		4.4	50
Dibromochloromethane	0.340	0.345		1.47	50
Tetrachloroethene	0.378	0.354		-6.35	50
Chlorobenzene	1.122	1.085	0.3	-3.3	50
Ethyl Benzene	1.988	1.913		-3.77	50
m/p-Xylenes	0.748	0.722		-3.48	50
o-Xylene	0.701	0.694		-1	50
Styrene	1.166	1.170		0.26	50
Bromoform	0.225	0.225	0.1	0	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.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: MSVOA_Y Calibration Date/Time: 02/26/2025 20:06

Lab File ID: VY021344.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:40 16:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.759	3.702		-1.52	50
1,1,2,2-Tetrachloroethane	0.663	0.666	0.3	0.45	50
1,3-Dichlorobenzene	1.730	1.669		-3.53	50
1,4-Dichlorobenzene	1.709	1.629		-4.68	50
1,2-Dichlorobenzene	1.515	1.475		-2.64	50
1,2-Dichloroethane-d4	0.567	0.529		-6.7	50
Dibromofluoromethane	0.328	0.298		-9.15	50
Toluene-d8	1.267	1.131		-10.73	50
4-Bromofluorobenzene	0.426	0.383		-10.09	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:	Q1380	**OrderDate:**	2/17/2025 3:59:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	H31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1380-01	**BP-VPB-192-EB-20250212**	**Water**			**02/12/25**			**02/17/25**
			SVOC-SIMGroup1	8270-Modified		02/18/25	02/20/25	
Q1380-09	**BP-VPB-192-GW-780-782**	**Water**			**02/13/25**			**02/17/25**
			SVOC-SIMGroup1	8270-Modified		02/18/25	02/20/25	
Q1380-12	**VPB192-HYD-20250214**	**Water**			**02/14/25**			**02/17/25**
			SVOC-SIMGroup1	8270-Modified		02/18/25	02/20/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :									
				0.000					
			Total Svoc :		**0.00**				
			Total Concentration:		**0.00**				

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/12/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-EB-20250212	SDG No.:	Q1380
Lab Sample ID:	Q1380-01	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
BN036475.D	1	02/18/25 11:40	02/20/25 11:24	PB166758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22	U	0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	58 - 132		146%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1490	7.746				
1146-65-2	Naphthalene-d8	3320	10.541				
15067-26-2	Acenaphthene-d10	2120	14.388				
1517-22-2	Phenanthrene-d10	4760	17.136				
1719-03-5	Chrysene-d12	4680	21.322				
1520-96-3	Perylene-d12	4460	23.592				

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:	02/13/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-780-782	SDG No.:	Q1380
Lab Sample ID:	Q1380-09	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	380 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
BN036476.D	1	02/18/25 11:40	02/20/25 12:00	PB166758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.53	UM	0.18	0.53	0.53	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47	*	53 - 106		118%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		126%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1680	7.746				
1146-65-2	Naphthalene-d8	3840	10.541				
15067-26-2	Acenaphthene-d10	2410	14.388				
1517-22-2	Phenanthrene-d10	5510	17.124				
1719-03-5	Chrysene-d12	5350	21.322				
1520-96-3	Perylene-d12	4860	23.59				

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:	02/14/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	VPB192-HYD-20250214	SDG No.:	Q1380
Lab Sample ID:	Q1380-12	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	940 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036479.D	1	02/18/25 11:40	02/20/25 13:48	PB166758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.023	*	30 - 150		6%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		112%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1730	7.746				
1146-65-2	Naphthalene-d8	4020	10.541				
15067-26-2	Acenaphthene-d10	2590	14.388				
1517-22-2	Phenanthrene-d10	5760	17.136				
1719-03-5	Chrysene-d12	5470	21.322				
1520-96-3	Perylene-d12	4500	23.587				

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.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB166758BL	PB166758BL	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
PB166758BS	PB166758BS	2-Methylnaphthalene-d10	0.4	0.52	129		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.47	118	*	53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q1380-01	BP-VPB-192-EB-20250212	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.58	146	*	58	132
Q1380-09	BP-VPB-192-GW-780-782	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.47	118	*	53	106
		Terphenyl-d14	0.4	0.50	126		58	132
Q1380-10MS	BP-VPB-192-GW-780-782MS	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.44	110	*	53	106
		Terphenyl-d14	0.4	0.54	135	*	58	132
Q1380-11MSD	BP-VPB-192-GW-780-782MSD	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.47	116		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.45	113	*	53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
Q1380-12	VPB192-HYD-20250214	2-Methylnaphthalene-d10	0.4	0.023	6	*	30	150
		Fluoranthene-d10	0.4	0.34	86		30	150
		Nitrobenzene-d5	0.4	0.31	79		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.45	112		58	132

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1380-10MS		**Client Sample ID:** BP-VPB-192-GW-780-782MS						**DataFile:** BN036477.D			
1,4-Dioxane	1.3	0	0.83	ug/L	64	*			70	130	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1380-11MSD		**Client Sample ID:** BP-VPB-192-GW-780-782MSD						**DataFile:** BN036478.D			
1,4-Dioxane	1.3	0	0.92	ug/L	71		10		70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1380

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036480.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166758BS	1,4-Dioxane	0.4	0.35	ug/L	88				70	130	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166758BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: BN036474.D Lab Sample ID: PB166758BL

Instrument ID: BNA_N Date Extracted: 02/18/2025

Matrix: (soil/water) Water Date Analyzed: 02/20/2025

Level: (low/med) LOW Time Analyzed: 10:47

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166758BS	PB166758BS	BN036480.D	02/20/2025
BP-VPB-192-EB-20250212	Q1380-01	BN036475.D	02/20/2025
BP-VPB-192-GW-780-782	Q1380-09	BN036476.D	02/20/2025
BP-VPB-192-GW-780-782MS	Q1380-10MS	BN036477.D	02/20/2025
BP-VPB-192-GW-780-782MSD	Q1380-11MSD	BN036478.D	02/20/2025
VPB192-HYD-20250214	Q1380-12	BN036479.D	02/20/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: BN036408.D DFTPP Injection Date: 02/10/2025

Instrument ID: BNA_N DFTPP Injection Time: 11:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.4
68	Less than 2.0% of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	7.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (20.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036409.D	02/10/2025	12:25
SSTDICC0.2	SSTDICC0.2	BN036410.D	02/10/2025	13:01
SSTDICCC0.4	SSTDICCC0.4	BN036411.D	02/10/2025	13:36
SSTDICC0.8	SSTDICC0.8	BN036412.D	02/10/2025	14:12
SSTDICC1.6	SSTDICC1.6	BN036413.D	02/10/2025	14:48
SSTDICC3.2	SSTDICC3.2	BN036414.D	02/10/2025	15:24
SSTDICC5.0	SSTDICC5.0	BN036415.D	02/10/2025	16:00

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1380 SDG NO.: Q1380

Lab File ID: BN036472.D DFTPP Injection Date: 02/20/2025

Instrument ID: BNA_N DFTPP Injection Time: 09:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	57.4
68	Less than 2.0% of mass 69	0.8 (1.5) 1
69	Mass 69 relative abundance	52.1
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	50.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	24.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.6 (19.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036473.D	02/20/2025	10:11
PB166758BL	PB166758BL	BN036474.D	02/20/2025	10:47
BP-VPB-192-EB-20250212	Q1380-01	BN036475.D	02/20/2025	11:24
BP-VPB-192-GW-780-782	Q1380-09	BN036476.D	02/20/2025	12:00
BP-VPB-192-GW-780-782MS	Q1380-10MS	BN036477.D	02/20/2025	12:36
BP-VPB-192-GW-780-782MSD	Q1380-11MSD	BN036478.D	02/20/2025	13:12
VPB192-HYD-20250214	Q1380-12	BN036479.D	02/20/2025	13:48
PB166758BS	PB166758BS	BN036480.D	02/20/2025	14:24
SSTDCCC0.4EC	SSTDCCC0.4	BN036482.D	02/20/2025	16:08

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/20/2025

Lab File ID: BN036473.D Time Analyzed: 10:11

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	1766	7.746	4292	10.54	2899	14.39
	UPPER LIMIT	3532	8.246	8584	11.041	5798	14.887
	LOWER LIMIT	883	7.246	2146	10.041	1449.5	13.887
	EPA SAMPLE NO.						
01	PB166758BL	1874	7.75	3905	10.55	2305	14.40
02	BP-VPB-192-EB-20250212	1491	7.75	3323	10.54	2119	14.39
03	PB166758BS	1827	7.75	4127	10.54	2357	14.39
04	BP-VPB-192-GW-780-782	1676	7.75	3840	10.54	2412	14.39
05	BP-VPB-192-GW-780-782MS	1709	7.75	3995	10.54	2495	14.39
06	BP-VPB-192-GW-780-782MSD	1787	7.75	4250	10.53	2636	14.39
07	VPB192-HYD-20250214	1727	7.75	4024	10.54	2593	14.39

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.: Q1380 SAS No.: Q1380 SDG NO.: Q1380

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/20/2025

Lab File ID: BN036473.D Time Analyzed: 10:11

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	6167	17.136	5687	21.313	5826	23.586
	UPPER LIMIT	12334	17.636	11374	21.813	11652	24.086
	LOWER LIMIT	3083.5	16.636	2843.5	20.813	2913	23.086
	EPA SAMPLE NO.						
01	PB166758BL	4889	17.15	4485	21.33	3907	23.60
02	BP-VPB-192-EB-20250212	4759	17.14	4677	21.32	4457	23.59
03	PB166758BS	5256	17.14	4823	21.32	4362	23.59
04	BP-VPB-192-GW-780-782	5513	17.12	5354	21.32	4859	23.59
05	BP-VPB-192-GW-780-782MS	5565	17.12	5523	21.31	5300	23.59
06	BP-VPB-192-GW-780-782MSD	5810	17.12	5865	21.31	5479	23.58
07	VPB192-HYD-20250214	5756	17.14	5466	21.32	4501	23.59

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

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

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

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166758BL	SDG No.:	Q1380
Lab Sample ID:	PB166758BL	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
BN036474.D	1	02/18/25 11:40	02/20/25 10:47	PB166758

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	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1870	7.746				
1146-65-2	Naphthalene-d8	3910	10.551				
15067-26-2	Acenaphthene-d10	2310	14.398				
1517-22-2	Phenanthrene-d10	4890	17.148				
1719-03-5	Chrysene-d12	4490	21.331				
1520-96-3	Perylene-d12	3910	23.595				

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:	CTO WE13	Date Received:	
Client Sample ID:	PB166758BS	SDG No.:	Q1380
Lab Sample ID:	PB166758BS	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
BN036480.D	1	02/18/25 11:40	02/20/25 14:24	PB166758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.52		30 - 150		129%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47	*	53 - 106		118%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1830	7.746				
1146-65-2	Naphthalene-d8	4130	10.541				
15067-26-2	Acenaphthene-d10	2360	14.388				
1517-22-2	Phenanthrene-d10	5260	17.136				
1719-03-5	Chrysene-d12	4820	21.322				
1520-96-3	Perylene-d12	4360	23.589				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/13/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-780-782MS	SDG No.:	Q1380
Lab Sample ID:	Q1380-10MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	320 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
BN036477.D	1	02/18/25 11:40	02/20/25 12:36	PB166758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.83		0.21	0.63	0.63	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		110%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		135%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1710	7.746				
1146-65-2	Naphthalene-d8	4000	10.541				
15067-26-2	Acenaphthene-d10	2500	14.387				
1517-22-2	Phenanthrene-d10	5570	17.124				
1719-03-5	Chrysene-d12	5520	21.313				
1520-96-3	Perylene-d12	5300	23.586				

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:	02/13/25
Project:	CTO WE13	Date Received:	02/17/25
Client Sample ID:	BP-VPB-192-GW-780-782MSD	SDG No.:	Q1380
Lab Sample ID:	Q1380-11MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	300 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
BN036478.D	1	02/18/25 11:40	02/20/25 13:12	PB166758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.92		0.23	0.67	0.67	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		116%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		113%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1790	7.746				
1146-65-2	Naphthalene-d8	4250	10.53				
15067-26-2	Acenaphthene-d10	2640	14.387				
1517-22-2	Phenanthrene-d10	5810	17.124				
1719-03-5	Chrysene-d12	5870	21.313				
1520-96-3	Perylene-d12	5480	23.584				

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-BN021025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Feb 11 01:17:14 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN036409.D 0.2 =BN036410.D 0.4 =BN036411.D 0.8 =BN036412.D 1.6 =BN036413.D 3.2 =BN036414.D 5.0 =BN036415.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	0.555	0.437	0.433	0.414	0.411	0.433	0.381	0.438	12.66
3)		n-Nitrosodimet...	0.906	0.779	0.764	0.724	0.708	0.769	0.670	0.760	9.90
4)	S	2-Fluorophenol	1.009	0.954	0.936	0.920	0.914	0.999	0.885	0.945	4.80
5)	S	Phenol-d6	1.134	1.007	1.032	1.062	1.099	1.267	1.164	1.109	8.00
6)		bis(2-Chloroet...	1.382	1.070	1.086	1.129	1.120	1.225	1.107	1.160	9.48
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.500	0.363	0.365	0.370	0.367	0.417	0.381	0.395	12.70
9)		Naphthalene	1.400	1.141	1.116	1.088	1.075	1.186	1.073	1.154	10.01
10)		Hexachlorobuta...	0.319	0.293	0.283	0.272	0.264	0.282	0.253	0.281	7.67
11)	SURR	2-Methylnaphth...	0.647	0.583	0.602	0.588	0.597	0.668	0.618	0.615	5.19
12)		2-Methylnaphth...	0.833	0.712	0.738	0.721	0.726	0.816	0.750	0.757	6.40
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.196	0.181	0.186	0.184	0.195	0.226	0.219	0.198	8.90
15)	S	2-Fluorobiphenyl	1.409	1.390	1.377	1.491	1.564	1.738	1.558	1.504	8.57
16)		Acenaphthylene	1.807	1.667	1.692	1.683	1.734	1.964	1.820	1.767	5.98
17)		Acenaphthene	1.245	1.125	1.146	1.128	1.175	1.273	1.169	1.180	4.89
18)		Fluorene	1.696	1.630	1.661	1.627	1.669	1.829	1.646	1.680	4.17
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.071	0.067	0.069	0.074	0.084	0.107		0.078	19.60
21)		4-Bromophenyl-...	0.243	0.227	0.231	0.232	0.236	0.264	0.238	0.239	5.15
22)		Hexachlorobenzene	0.305	0.296	0.284	0.287	0.289	0.317	0.285	0.295	4.11
23)		Atrazine	0.196	0.190	0.187	0.186	0.194	0.229	0.213	0.199	8.00
24)		Pentachlorophenol	0.140	0.125	0.122	0.122	0.134	0.170	0.167	0.140	14.74
25)		Phenanthrene	1.233	1.090	1.095	1.112	1.138	1.273	1.153	1.156	6.12
26)		Anthracene	0.990	0.933	0.967	0.978	1.015	1.167	1.088	1.020	7.92
27)	SURR	Fluoranthene-d10	1.109	1.043	1.063	1.059	1.098	1.258	1.156	1.112	6.70
28)		Fluoranthene	1.441	1.323	1.353	1.356	1.404	1.607	1.461	1.421	6.76
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.584	1.568	1.534	1.490	1.488	1.629	1.492	1.541	3.59
31)	S	Terphenyl-d14	0.860	0.847	0.852	0.829	0.834	0.913	0.843	0.854	3.27
32)		Benzo(a)anthra...	1.257	1.276	1.293	1.255	1.300	1.471	1.362	1.316	5.86
33)		Chrysene	1.449	1.456	1.360	1.414	1.404	1.527	1.366	1.425	4.08
34)		Bis(2-ethylhex...	0.902	0.875	0.777	0.745	0.761	0.861	0.819	0.820	7.45
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN021025.M

36)		Indeno(1,2,3-c...	1.182	1.289	1.378	1.390	1.446	1.630	1.471	1.398	10.13
37)		Benzo(b)fluora...	1.174	1.220	1.260	1.290	1.333	1.529	1.416	1.317	9.24
38)		Benzo(k)fluora...	1.258	1.253	1.363	1.326	1.347	1.532	1.413	1.356	7.08
39)	C	Benzo(a)pyrene	1.091	1.081	1.102	1.114	1.145	1.309	1.206	1.150	7.12
40)		Dibenzo(a,h)an...	0.906	1.021	1.075	1.087	1.154	1.304	1.176	1.103	11.40
41)		Benzo(g,h,i)pe...	1.140	1.212	1.254	1.230	1.269	1.400	1.249	1.250	6.27

(#) = Out of Range

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: BNA_N Calibration Date/Time: 02/20/2025 10:11

Lab File ID: BN036473.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.585		-4.9	20.0
Fluoranthene-d10	1.112	1.062		-4.5	20.0
2-Fluorophenol	0.945	0.879		-7.0	20.0
Phenol-d6	1.109	1.046		-5.7	20.0
Nitrobenzene-d5	0.395	0.399		1.0	20.0
2-Fluorobiphenyl	1.504	1.478		-1.7	20.0
2,4,6-Tribromophenol	0.198	0.165		-16.7	20.0
Terphenyl-d14	0.854	0.795		-6.9	20.0
1,4-Dioxane	0.438	0.446		1.8	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1380 SAS No.: Q1380 SDG No.: Q1380

Instrument ID: BNA_N Calibration Date/Time: 02/20/2025 16:08

Lab File ID: BN036482.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.590		-4.1	50.0
Fluoranthene-d10	1.112	1.050		-5.6	50.0
2-Fluorophenol	0.945	0.903		-4.4	50.0
Phenol-d6	1.109	1.067		-3.8	50.0
Nitrobenzene-d5	0.395	0.392		-0.8	50.0
2-Fluorobiphenyl	1.504	1.565		4.1	50.0
2,4,6-Tribromophenol	0.198	0.163		-17.7	50.0
Terphenyl-d14	0.854	0.801		-6.2	50.0
1,4-Dioxane	0.438	0.416		-5.0	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: Q1380

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-192	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: 10 DAYS*
HARD COPY: 10 DAYS*
EDD 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-192-EB-20250212	QA		X	2/12/25	15:00	3		2	1								
2.	BP-VPB-192-TB-20250210	QA		X	2/10/25	9:00	2		2									Trip blank
3.	BP-VPB-192-GW-725-727	AQ		X	2/10/25	15:00	6		6									8260B MS/MSD
4.	BP-VPB-192-GW-780-782	AQ		X	2/13/25	10:05	5		2	3								8270SIM MS/MSD
5.	VPB-192-HYD-20250214	AQ		X	2/14/25	13:30	3		2	1								
6.																		
7.																		
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.	2/17/25 1530	1. 1530 2-17-25
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	2-17-25 1801	3.

Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 2.4C
MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in Cooler?:_____
Comments: Standard TAT

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 : Q1380 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 2/17/2025 3:59:00 PM
Project Name : CTO WE13
Receive DateTime : 2/18/2025 6:01:00 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
Q1380-01	BP-VPB-192-EB-20250212	Water	02/12/2025	15:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1380-02	BP-VPB-192-TB-20250210	Water	02/10/2025	09:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1380-06	BP-VPB-192-GW-725-727	Solid	02/10/2025	15:00					
					VOCMS Group1		8260D		10 Bus. Days
Q1380-07	Q1380-06MS	Solid	02/10/2025	15:00					
					VOCMS Group1		8260D		10 Bus. Days
Q1380-08	Q1380-06MSD	Solid	02/10/2025	15:00					
					VOCMS Group1		8260D		10 Bus. Days
Q1380-09	~~BP-VPB-192-GW-780-727~~ BP-VPB-192-GW-780-782	Water	02/13/2025	10:05					
					VOCMS Group1		8260-Low		10 Bus. Days
Q1380-12	VPB192-HYD-20250214	Water	02/14/2025	13:30					
					VOCMS Group1		8260-Low		10 Bus. Days

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q1380 TETR06	**Order Date :**	2/17/2025 3:59:00 PM	**Project Mgr :**	
Client Name :	Tetra Tech NUS, Inc.	**Project Name :**	CTO WE13	**Report Type :**	Level 4
Client Contact :	Ernie Wu	**Receive DateTime :**	2/18/2025 6:01:00 PM	**EDD Type :**	ADAPT
Invoice Name :	Tetra Tech NUS, Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Ernie Wu			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By :
Date / Time : 2-18-25 1110

Received By :
Date / Time : 02/18/25 11:00

Storage Area : VOA Refridgerator Room

Ice #6
FZ2
Ice #4