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

ANALYTICAL RESULT SUMMARY

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
GC SEMI-VOLATILES

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : P4549

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for P4549

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Cover Page

Order ID : P4549

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
P4549-01	TT-TB-20241024
P4549-02	TT-067-IDWGW-20241024
P4549-03	TT-068-IDWGW-20241024
P4549-04	TT-069-IDWGW-20241024

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: 11/6/2024

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 # P4549
Test Name: VOCMS Group4

A. Number of Samples and Date of Receipt:
4 Water samples were received on 10/24/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH and VOCMS Group4. This data package contains results for VOCMS Group4.

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 of VOCMS Group4 was based on method 624.1.

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

Samples TT-067-IDWGW-20241024, TT-068-IDWGW-20241024 and TT-069-IDWGW-20241024 were analyzed with 4X dilution due to bad sample matrix.

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

"As per method 624.1, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore

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MS/MSD were not performed for this project. However, Lab has performed LCS/LCSD instead."

The SDG P4549 is logged for VOCMS group4. Chemtech is not certified for Hexachloroethane, Iodomethane, Methyl Methacrylate and tert-Butylbenzene compounds for 624.1 method.

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 <35% 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 > 35% 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 # P4549
Test Name: PCB

A. Number of Samples and Date of Receipt:
4 Water samples were received on 10/24/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH and VOCMS Group4. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A 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 TT-067-IDWGW-20241024 [Decachlorobiphenyl(1) - 34%, Decachlorobiphenyl(2) - 32%], TT-067-IDWGW-20241024RE [Decachlorobiphenyl(1) - 39%, Decachlorobiphenyl(2) - 37%], TT-068-IDWGW-20241024 [Decachlorobiphenyl(1) - 29%, Decachlorobiphenyl(2) - 28%], TT-068-IDWGW-20241024RE [Decachlorobiphenyl(1) - 33%, Decachlorobiphenyl(2) - 32%], TT-069-IDWGW-20241024 [Decachlorobiphenyl(1) - 30%, Decachlorobiphenyl(2) - 28%], TT-069-IDWGW-20241024RE [Decachlorobiphenyl(1) - 34% and Decachlorobiphenyl(2) - 32%],
All the failure samples in surrogates with both columns were reanalyzed to confirm the results as per method and reported in the data.

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

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The Continuous Calibration met the requirements .

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."
The not QT review data is reported in the Miscellaneous.

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.

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager : Ernie Wu
Chemtech Project # P4549
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
4 Water samples were received on 10/24/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH and VOCMS Group4. This data package contains results for Metals ICP-TAL,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (TT-069-IDWGW-20241024MS) analysis met criteria for all samples except for Antimony, Arsenic, Beryllium, Cadmium, Lead, Magnesium, Manganese, Selenium, Silver, Thallium and Vanadium due to Chemical interference during Digestion Process.
The Matrix Spike Duplicate (TT-069-IDWGW-20241024MSD) analysis met criteria for all samples except for Antimony, Arsenic, Beryllium, Cadmium, Lead, Magnesium, Manganese, Selenium, Silver, Thallium and Vanadium due to Chemical interference during Digestion Process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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

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 # P4549
Test Name: pH

A. Number of Samples and Date of Receipt:
4 Water samples were received on 10/24/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH and VOCMS Group4. This data package contains results for pH.

C. Analytical Techniques:
The analysis of pH was based on method 9040C.

D. QA/ QC Samples:
The Holding Times were met for all samples except for TT-067-IDWGW-20241024 of pH, for TT-068-IDWGW-20241024 of pH.for TT-069-IDWGW-20241024 of pH as samples were receive out of holding time.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

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

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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Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

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

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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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 #: P4549

	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:** 11/06/2024

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LAB CHRONICLE

OrderID:	P4549	**OrderDate:**	10/24/2024 4:00:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4549-01	**TT-TB-20241024**	**Water**			**10/24/24**			**10/24/24**
			VOCMS Group4	624.1			10/25/24	
P4549-02	**TT-067-IDWGW-2024 1024**	**Water**			**10/24/24**			**10/24/24**
			VOCMS Group4	624.1			10/25/24	
P4549-03	**TT-068-IDWGW-2024 1024**	**Water**			**10/24/24**			**10/24/24**
			VOCMS Group4	624.1			10/25/24	
P4549-04	**TT-069-IDWGW-2024 1024**	**Water**			**10/24/24**			**10/24/24**
			VOCMS Group4	624.1			10/25/24	

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Hit Summary Sheet
SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**TT-067-IDWGW-20241024**							
P4549-02	TT-067-IDWGW-2(	Water	Trichloroethene	3.80	J	3.10	20.0	ug/L
			Total Voc :	3.80				
			Total Concentration:	3.80				
Client ID:	**TT-068-IDWGW-20241024**							
P4549-03	TT-068-IDWGW-2(	Water	Trichloroethene	25.2		3.10	20.0	ug/L
			Total Voc :	25.2				
			Total Concentration:	25.2				
Client ID:	**TT-069-IDWGW-20241024**							
P4549-04	TT-069-IDWGW-2(	Water	Trichloroethene	26.2		3.10	20.0	ug/L
			Total Voc :	26.2				
			Total Concentration:	26.2				

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-TB-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084512.D	1		10/25/24 13:39	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.00	ug/L
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/L
75-01-4	Vinyl Chloride	1.20	U	1.20	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	2.90	U	2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.00	ug/L
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
67-64-1	Acetone	4.90	U	4.90	25.0	ug/L
75-15-0	Carbon Disulfide	0.93	U	0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.83	U	0.83	5.00	ug/L
79-20-9	Methyl Acetate	1.20	U	1.20	5.00	ug/L
75-09-2	Methylene Chloride	1.20	U	1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.95	U	0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/L
110-82-7	Cyclohexane	1.00	U	1.00	5.00	ug/L
78-93-3	2-Butanone	3.60	U	3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.91	U	0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	1.10	U	1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	5.00	ug/L
67-66-3	Chloroform	0.72	U	0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.79	U	0.79	5.00	ug/L
108-87-2	Methylcyclohexane	0.89	U	0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.75	U	0.75	5.00	ug/L
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.77	U	0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.65	U	0.65	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-TB-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084512.D	1		10/25/24 13:39	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.70	U	0.70	5.00	ug/L
75-27-4	Bromodichloromethane	0.81	U	0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	25.0	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.79	U	0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.68	U	0.68	5.00	ug/L
591-78-6	2-Hexanone	3.90	U	3.90	25.0	ug/L
124-48-1	Dibromochloromethane	0.72	U	0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.78	U	0.78	5.00	ug/L
127-18-4	Tetrachloroethene	0.94	U	0.94	5.00	ug/L
108-90-7	Chlorobenzene	0.67	U	0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.91	U	0.91	5.00	ug/L
67-72-1	Hexachloroethane	0.91	U	0.91	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
100-42-5	Styrene	0.80	U	0.80	5.00	ug/L
75-25-2	Bromoform	1.00	U	1.00	5.00	ug/L
98-82-8	Isopropylbenzene	0.85	U	0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.70	U	1.70	5.00	ug/L
108-86-1	Bromobenzene	0.69	U	0.69	5.00	ug/L
103-65-1	n-propylbenzene	0.80	U	0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	0.81	U	0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.74	U	0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	0.82	U	0.82	5.00	ug/L
98-06-6	tert-butylbenzene	0.77	U	0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.83	U	0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	0.77	U	0.77	5.00	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-TB-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084512.D	1		10/25/24 13:39	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.82	U	0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.00	ug/L
104-51-8	n-Butylbenzene	0.86	U	0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.10	U	1.10	5.00	ug/L
91-20-3	Naphthalene	1.40	U	1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.40	U	1.40	5.00	ug/L
74-88-4	Methyl Iodide	0.94	U	0.94	5.00	ug/L
80-62-6	Methyl methacrylate	1.00	U	1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.1		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	29.3		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.2		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29900	7.818			
540-36-3	1,4-Difluorobenzene	153000	9.1			
3114-55-4	Chlorobenzene-d5	136000	11.865			

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

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

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-067-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084516.D	4		10/25/24 15:15	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	4.90	U	4.90	20.0	ug/L
74-87-3	Chloromethane	4.70	U	4.70	20.0	ug/L
75-01-4	Vinyl Chloride	4.90	U	4.90	20.0	ug/L
74-83-9	Bromomethane	5.50	U	5.50	20.0	ug/L
75-00-3	Chloroethane	11.7	U	11.7	20.0	ug/L
75-69-4	Trichlorofluoromethane	4.00	U	4.00	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4.20	U	4.20	20.0	ug/L
75-35-4	1,1-Dichloroethene	4.20	U	4.20	20.0	ug/L
107-02-8	Acrolein	37.2	U	37.2	100	ug/L
107-13-1	Acrylonitrile	14.7	U	14.7	100	ug/L
67-64-1	Acetone	19.6	U	19.6	100	ug/L
75-15-0	Carbon Disulfide	3.70	U	3.70	20.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	3.30	U	3.30	20.0	ug/L
79-20-9	Methyl Acetate	4.90	U	4.90	20.0	ug/L
75-09-2	Methylene Chloride	4.80	U	4.80	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	3.80	U	3.80	20.0	ug/L
75-34-3	1,1-Dichloroethane	3.20	U	3.20	20.0	ug/L
110-82-7	Cyclohexane	4.10	U	4.10	20.0	ug/L
78-93-3	2-Butanone	14.2	U	14.2	100	ug/L
56-23-5	Carbon Tetrachloride	3.60	U	3.60	20.0	ug/L
594-20-7	2,2-Dichloropropane	4.60	U	4.60	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	3.60	U	3.60	20.0	ug/L
67-66-3	Chloroform	2.90	U	2.90	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	3.20	U	3.20	20.0	ug/L
108-87-2	Methylcyclohexane	3.60	U	3.60	20.0	ug/L
563-58-6	1,1-Dichloropropene	3.00	U	3.00	20.0	ug/L
71-43-2	Benzene	2.80	U	2.80	20.0	ug/L
107-06-2	1,2-Dichloroethane	3.00	U	3.00	20.0	ug/L
79-01-6	Trichloroethene	3.80	J	3.10	20.0	ug/L
78-87-5	1,2-Dichloropropane	2.60	U	2.60	20.0	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-067-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084516.D	4		10/25/24 15:15	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	2.80	U	2.80	20.0	ug/L
75-27-4	Bromodichloromethane	3.20	U	3.20	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	16.6	U	16.6	100	ug/L
108-88-3	Toluene	2.90	U	2.90	20.0	ug/L
10061-02-6	t-1,3-Dichloropropene	3.20	U	3.20	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	3.30	U	3.30	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.70	U	2.70	20.0	ug/L
142-28-9	1,3-Dichloropropane	2.70	U	2.70	20.0	ug/L
591-78-6	2-Hexanone	15.8	U	15.8	100	ug/L
124-48-1	Dibromochloromethane	2.90	U	2.90	20.0	ug/L
106-93-4	1,2-Dibromoethane	3.10	U	3.10	20.0	ug/L
127-18-4	Tetrachloroethene	3.80	U	3.80	20.0	ug/L
108-90-7	Chlorobenzene	2.70	U	2.70	20.0	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	3.60	U	3.60	20.0	ug/L
67-72-1	Hexachloroethane	3.60	U	3.60	20.0	ug/L
100-41-4	Ethyl Benzene	2.90	U	2.90	20.0	ug/L
179601-23-1	m/p-Xylenes	6.90	U	6.90	40.0	ug/L
95-47-6	o-Xylene	3.30	U	3.30	20.0	ug/L
100-42-5	Styrene	3.20	U	3.20	20.0	ug/L
75-25-2	Bromoform	4.00	U	4.00	20.0	ug/L
98-82-8	Isopropylbenzene	3.40	U	3.40	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.40	U	2.40	20.0	ug/L
96-18-4	1,2,3-Trichloropropane	6.90	U	6.90	20.0	ug/L
108-86-1	Bromobenzene	2.80	U	2.80	20.0	ug/L
103-65-1	n-propylbenzene	3.20	U	3.20	20.0	ug/L
95-49-8	2-Chlorotoluene	3.20	U	3.20	20.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.00	U	3.00	20.0	ug/L
106-43-4	4-Chlorotoluene	3.30	U	3.30	20.0	ug/L
98-06-6	tert-butylbenzene	3.10	U	3.10	20.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.30	U	3.30	20.0	ug/L
135-98-8	sec-Butylbenzene	3.10	U	3.10	20.0	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-067-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084516.D	4		10/25/24 15:15	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	3.30	U	3.30	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	3.80	U	3.80	20.0	ug/L
104-51-8	n-Butylbenzene	3.40	U	3.40	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.60	U	3.60	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	4.40	U	4.40	20.0	ug/L
87-68-3	Hexachlorobutadiene	4.40	U	4.40	20.0	ug/L
91-20-3	Naphthalene	5.80	U	5.80	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	5.60	U	5.60	20.0	ug/L
74-88-4	Methyl Iodide	3.80	U	3.80	20.0	ug/L
80-62-6	Methyl methacrylate	4.00	U	4.00	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.0		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	28.5		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.2		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28300	7.812			
540-36-3	1,4-Difluorobenzene	137000	9.1			
3114-55-4	Chlorobenzene-d5	126000	11.865			

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-068-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084515.D	4		10/25/24 14:51	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	4.90	U	4.90	20.0	ug/L
74-87-3	Chloromethane	4.70	U	4.70	20.0	ug/L
75-01-4	Vinyl Chloride	4.90	U	4.90	20.0	ug/L
74-83-9	Bromomethane	5.50	U	5.50	20.0	ug/L
75-00-3	Chloroethane	11.7	U	11.7	20.0	ug/L
75-69-4	Trichlorofluoromethane	4.00	U	4.00	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4.20	U	4.20	20.0	ug/L
75-35-4	1,1-Dichloroethene	4.20	U	4.20	20.0	ug/L
107-02-8	Acrolein	37.2	U	37.2	100	ug/L
107-13-1	Acrylonitrile	14.7	U	14.7	100	ug/L
67-64-1	Acetone	19.6	U	19.6	100	ug/L
75-15-0	Carbon Disulfide	3.70	U	3.70	20.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	3.30	U	3.30	20.0	ug/L
79-20-9	Methyl Acetate	4.90	U	4.90	20.0	ug/L
75-09-2	Methylene Chloride	4.80	U	4.80	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	3.80	U	3.80	20.0	ug/L
75-34-3	1,1-Dichloroethane	3.20	U	3.20	20.0	ug/L
110-82-7	Cyclohexane	4.10	U	4.10	20.0	ug/L
78-93-3	2-Butanone	14.2	U	14.2	100	ug/L
56-23-5	Carbon Tetrachloride	3.60	U	3.60	20.0	ug/L
594-20-7	2,2-Dichloropropane	4.60	U	4.60	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	3.60	U	3.60	20.0	ug/L
67-66-3	Chloroform	2.90	U	2.90	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	3.20	U	3.20	20.0	ug/L
108-87-2	Methylcyclohexane	3.60	U	3.60	20.0	ug/L
563-58-6	1,1-Dichloropropene	3.00	U	3.00	20.0	ug/L
71-43-2	Benzene	2.80	U	2.80	20.0	ug/L
107-06-2	1,2-Dichloroethane	3.00	U	3.00	20.0	ug/L
79-01-6	Trichloroethene	25.2		3.10	20.0	ug/L
78-87-5	1,2-Dichloropropane	2.60	U	2.60	20.0	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-068-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084515.D	4		10/25/24 14:51	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	2.80	U	2.80	20.0	ug/L
75-27-4	Bromodichloromethane	3.20	U	3.20	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	16.6	U	16.6	100	ug/L
108-88-3	Toluene	2.90	U	2.90	20.0	ug/L
10061-02-6	t-1,3-Dichloropropene	3.20	U	3.20	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	3.30	U	3.30	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.70	U	2.70	20.0	ug/L
142-28-9	1,3-Dichloropropane	2.70	U	2.70	20.0	ug/L
591-78-6	2-Hexanone	15.8	U	15.8	100	ug/L
124-48-1	Dibromochloromethane	2.90	U	2.90	20.0	ug/L
106-93-4	1,2-Dibromoethane	3.10	U	3.10	20.0	ug/L
127-18-4	Tetrachloroethene	3.80	U	3.80	20.0	ug/L
108-90-7	Chlorobenzene	2.70	U	2.70	20.0	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	3.60	U	3.60	20.0	ug/L
67-72-1	Hexachloroethane	3.60	U	3.60	20.0	ug/L
100-41-4	Ethyl Benzene	2.90	U	2.90	20.0	ug/L
179601-23-1	m/p-Xylenes	6.90	U	6.90	40.0	ug/L
95-47-6	o-Xylene	3.30	U	3.30	20.0	ug/L
100-42-5	Styrene	3.20	U	3.20	20.0	ug/L
75-25-2	Bromoform	4.00	U	4.00	20.0	ug/L
98-82-8	Isopropylbenzene	3.40	U	3.40	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.40	U	2.40	20.0	ug/L
96-18-4	1,2,3-Trichloropropane	6.90	U	6.90	20.0	ug/L
108-86-1	Bromobenzene	2.80	U	2.80	20.0	ug/L
103-65-1	n-propylbenzene	3.20	U	3.20	20.0	ug/L
95-49-8	2-Chlorotoluene	3.20	U	3.20	20.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.00	U	3.00	20.0	ug/L
106-43-4	4-Chlorotoluene	3.30	U	3.30	20.0	ug/L
98-06-6	tert-butylbenzene	3.10	U	3.10	20.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.30	U	3.30	20.0	ug/L
135-98-8	sec-Butylbenzene	3.10	U	3.10	20.0	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-068-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084515.D	4		10/25/24 14:51	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	3.30	U	3.30	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	3.80	U	3.80	20.0	ug/L
104-51-8	n-Butylbenzene	3.40	U	3.40	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.60	U	3.60	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	4.40	U	4.40	20.0	ug/L
87-68-3	Hexachlorobutadiene	4.40	U	4.40	20.0	ug/L
91-20-3	Naphthalene	5.80	U	5.80	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	5.60	U	5.60	20.0	ug/L
74-88-4	Methyl Iodide	3.80	U	3.80	20.0	ug/L
80-62-6	Methyl methacrylate	4.00	U	4.00	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.0		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	28.6		91 - 112	95%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.7		63 - 112	82%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29100	7.818			
540-36-3	1,4-Difluorobenzene	146000	9.1			
3114-55-4	Chlorobenzene-d5	134000	11.865			

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:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-069-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084517.D	4		10/25/24 15:39	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	4.90	U	4.90	20.0	ug/L
74-87-3	Chloromethane	4.70	U	4.70	20.0	ug/L
75-01-4	Vinyl Chloride	4.90	U	4.90	20.0	ug/L
74-83-9	Bromomethane	5.50	U	5.50	20.0	ug/L
75-00-3	Chloroethane	11.7	U	11.7	20.0	ug/L
75-69-4	Trichlorofluoromethane	4.00	U	4.00	20.0	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	4.20	U	4.20	20.0	ug/L
75-35-4	1,1-Dichloroethene	4.20	U	4.20	20.0	ug/L
107-02-8	Acrolein	37.2	U	37.2	100	ug/L
107-13-1	Acrylonitrile	14.7	U	14.7	100	ug/L
67-64-1	Acetone	19.6	U	19.6	100	ug/L
75-15-0	Carbon Disulfide	3.70	U	3.70	20.0	ug/L
1634-04-4	Methyl tert-Butyl Ether	3.30	U	3.30	20.0	ug/L
79-20-9	Methyl Acetate	4.90	U	4.90	20.0	ug/L
75-09-2	Methylene Chloride	4.80	U	4.80	20.0	ug/L
156-60-5	trans-1,2-Dichloroethene	3.80	U	3.80	20.0	ug/L
75-34-3	1,1-Dichloroethane	3.20	U	3.20	20.0	ug/L
110-82-7	Cyclohexane	4.10	U	4.10	20.0	ug/L
78-93-3	2-Butanone	14.2	U	14.2	100	ug/L
56-23-5	Carbon Tetrachloride	3.60	U	3.60	20.0	ug/L
594-20-7	2,2-Dichloropropane	4.60	U	4.60	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	3.60	U	3.60	20.0	ug/L
67-66-3	Chloroform	2.90	U	2.90	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	3.20	U	3.20	20.0	ug/L
108-87-2	Methylcyclohexane	3.60	U	3.60	20.0	ug/L
563-58-6	1,1-Dichloropropene	3.00	U	3.00	20.0	ug/L
71-43-2	Benzene	2.80	U	2.80	20.0	ug/L
107-06-2	1,2-Dichloroethane	3.00	U	3.00	20.0	ug/L
79-01-6	Trichloroethene	26.2		3.10	20.0	ug/L
78-87-5	1,2-Dichloropropane	2.60	U	2.60	20.0	ug/L

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

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-069-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084517.D	4		10/25/24 15:39	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	2.80	U	2.80	20.0	ug/L
75-27-4	Bromodichloromethane	3.20	U	3.20	20.0	ug/L
108-10-1	4-Methyl-2-Pentanone	16.6	U	16.6	100	ug/L
108-88-3	Toluene	2.90	U	2.90	20.0	ug/L
10061-02-6	t-1,3-Dichloropropene	3.20	U	3.20	20.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	3.30	U	3.30	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.70	U	2.70	20.0	ug/L
142-28-9	1,3-Dichloropropane	2.70	U	2.70	20.0	ug/L
591-78-6	2-Hexanone	15.8	U	15.8	100	ug/L
124-48-1	Dibromochloromethane	2.90	U	2.90	20.0	ug/L
106-93-4	1,2-Dibromoethane	3.10	U	3.10	20.0	ug/L
127-18-4	Tetrachloroethene	3.80	U	3.80	20.0	ug/L
108-90-7	Chlorobenzene	2.70	U	2.70	20.0	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	3.60	U	3.60	20.0	ug/L
67-72-1	Hexachloroethane	3.60	U	3.60	20.0	ug/L
100-41-4	Ethyl Benzene	2.90	U	2.90	20.0	ug/L
179601-23-1	m/p-Xylenes	6.90	U	6.90	40.0	ug/L
95-47-6	o-Xylene	3.30	U	3.30	20.0	ug/L
100-42-5	Styrene	3.20	U	3.20	20.0	ug/L
75-25-2	Bromoform	4.00	U	4.00	20.0	ug/L
98-82-8	Isopropylbenzene	3.40	U	3.40	20.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.40	U	2.40	20.0	ug/L
96-18-4	1,2,3-Trichloropropane	6.90	U	6.90	20.0	ug/L
108-86-1	Bromobenzene	2.80	U	2.80	20.0	ug/L
103-65-1	n-propylbenzene	3.20	U	3.20	20.0	ug/L
95-49-8	2-Chlorotoluene	3.20	U	3.20	20.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	3.00	U	3.00	20.0	ug/L
106-43-4	4-Chlorotoluene	3.30	U	3.30	20.0	ug/L
98-06-6	tert-butylbenzene	3.10	U	3.10	20.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.30	U	3.30	20.0	ug/L
135-98-8	sec-Butylbenzene	3.10	U	3.10	20.0	ug/L

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-069-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-04	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084517.D	4		10/25/24 15:39	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	3.30	U	3.30	20.0	ug/L
541-73-1	1,3-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
106-46-7	1,4-Dichlorobenzene	3.80	U	3.80	20.0	ug/L
104-51-8	n-Butylbenzene	3.40	U	3.40	20.0	ug/L
95-50-1	1,2-Dichlorobenzene	3.50	U	3.50	20.0	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	3.60	U	3.60	20.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	4.40	U	4.40	20.0	ug/L
87-68-3	Hexachlorobutadiene	4.40	U	4.40	20.0	ug/L
91-20-3	Naphthalene	5.80	U	5.80	20.0	ug/L
87-61-6	1,2,3-Trichlorobenzene	5.60	U	5.60	20.0	ug/L
74-88-4	Methyl Iodide	3.80	U	3.80	20.0	ug/L
80-62-6	Methyl methacrylate	4.00	U	4.00	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.1		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.8		63 - 112	86%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	27900	7.812			
540-36-3	1,4-Difluorobenzene	143000	9.1			
3114-55-4	Chlorobenzene-d5	128000	11.865			

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.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4549-01	TT-TB-20241024	1,2-Dichloroethane-d4	30	30.1	100	91	110
		Toluene-d8	30	29.3	98	91	112
		4-Bromofluorobenzene	30	25.2	84	63	112
P4549-02	TT-067-IDWGW-20241024	1,2-Dichloroethane-d4	30	30.0	100	91	110
		Toluene-d8	30	28.6	95	91	112
		4-Bromofluorobenzene	30	25.2	84	63	112
P4549-03	TT-068-IDWGW-20241024	1,2-Dichloroethane-d4	30	30.9	103	91	110
		Toluene-d8	30	28.6	95	91	112
		4-Bromofluorobenzene	30	24.7	82	63	112
P4549-04	TT-069-IDWGW-20241024	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	29.1	97	91	112
		4-Bromofluorobenzene	30	25.8	86	63	112
VN1025WBL01	VN1025WBL01	1,2-Dichloroethane-d4	30	30.0	100	91	110
		Toluene-d8	30	30.1	100	91	112
		4-Bromofluorobenzene	30	26.2	87	63	112
VN1025WBS01	VN1025WBS01	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	29.9	100	91	112
		4-Bromofluorobenzene	30	30.6	102	63	112
VN1025WBSD0	VN1025WBSD01	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	29.5	98	91	112
		4-Bromofluorobenzene	30	30.3	101	63	112

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1 **Datafile :** VN084505.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1025WBS01	Dichlorodifluoromethane	20	17.5	ug/L	88			72	118	
	Chloromethane	20	17.5	ug/L	88			1	205	
	Vinyl Chloride	20	18.2	ug/L	91			5	195	
	Bromomethane	20	17.5	ug/L	88			15	185	
	Chloroethane	20	18.5	ug/L	93			40	160	
	Trichlorofluoromethane	20	18.7	ug/L	94			50	150	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			64	127	
	1,1-Dichloroethene	20	18.5	ug/L	93			50	150	
	Acrolein	100	99.2	ug/L	99			60	140	
	Acrylonitrile	100	89.2	ug/L	89			60	140	
	Acetone	100	110	ug/L	110			41	148	
	Carbon disulfide	20	16.5	ug/L	83			76	107	
	Methyl tert-butyl Ether	20	18.8	ug/L	94			82	114	
	Methyl Acetate	20	21.2	ug/L	106			63	139	
	Methylene Chloride	20	19.0	ug/L	95			60	140	
	trans-1,2-Dichloroethene	20	17.8	ug/L	89			70	130	
	1,1-Dichloroethane	20	18.8	ug/L	94			70	130	
	Cyclohexane	20	17.5	ug/L	88			79	113	
	2-Butanone	100	95.6	ug/L	96			69	129	
	Carbon Tetrachloride	20	18.7	ug/L	94			70	130	
	2,2-Dichloropropane	20	19.4	ug/L	97			62	139	
	cis-1,2-Dichloroethene	20	18.5	ug/L	93			81	112	
	Chloroform	20	19.4	ug/L	97			70	135	
	1,1,1-Trichloroethane	20	18.1	ug/L	91			70	130	
	Methylcyclohexane	20	17.4	ug/L	87			79	112	
	1,1-Dichloropropene	20	17.8	ug/L	89			70	139	
	Benzene	20	18.2	ug/L	91			65	135	
	1,2-Dichloroethane	20	18.8	ug/L	94			70	130	
	Trichloroethene	20	18.5	ug/L	93			65	135	
	1,2-Dichloropropane	20	18.4	ug/L	92			35	165	
	Dibromomethane	20	18.4	ug/L	92			72	138	
	Bromodichloromethane	20	19.2	ug/L	96			65	135	
	4-Methyl-2-Pentanone	100	92.6	ug/L	93			73	131	
	Toluene	20	18.8	ug/L	94			70	130	
	t-1,3-Dichloropropene	20	17.8	ug/L	89			50	150	
	cis-1,3-Dichloropropene	20	18.1	ug/L	91			25	175	
	1,1,2-Trichloroethane	20	18.7	ug/L	94			70	130	
	1,3-Dichloropropane	20	18.7	ug/L	94			70	141	
	2-Hexanone	100	94.4	ug/L	94			72	128	
	Dibromochloromethane	20	18.9	ug/L	95			70	135	
	1,2-Dibromoethane	20	18.0	ug/L	90			86	114	
	Tetrachloroethene	20	19.3	ug/L	97			70	130	
	Chlorobenzene	20	18.5	ug/L	93			65	135	
	1,1,1,2-Tetrachloroethane	20	19.3	ug/L	97			63	138	
	Hexachloroethane	20	18.3	ug/L	92			70	130	
	Ethyl Benzene	20	18.6	ug/L	93			60	140	
	m/p-Xylenes	40	37.6	ug/L	94			87	111	
	o-Xylene	20	18.4	ug/L	92			87	111	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1 **Datafile :** VN084505.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1025WBS01	Styrene	20	18.8	ug/L	94			85	106	
	Bromoform	20	17.9	ug/L	90			70	130	
	Isopropylbenzene	20	19.0	ug/L	95			86	112	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/L	95			60	140	
	1,2,3-Trichloropropane	20	18.0	ug/L	90			61	148	
	Bromobenzene	20	19.1	ug/L	96			59	142	
	N-propylbenzene	20	19.0	ug/L	95			67	139	
	2-Chlorotoluene	20	19.0	ug/L	95			66	138	
	1,3,5-Trimethylbenzene	20	19.1	ug/L	96			66	139	
	4-Chlorotoluene	20	18.8	ug/L	94			66	141	
	tert-Butylbenzene	20	19.2	ug/L	96			56	140	
	1,2,4-Trimethylbenzene	20	19.0	ug/L	95			63	142	
	Sec-butylbenzene	20	19.0	ug/L	95			63	144	
	p-Isopropyltoluene	20	18.6	ug/L	93			57	147	
	1,3-Dichlorobenzene	20	19.1	ug/L	96			70	130	
	1,4-Dichlorobenzene	20	18.9	ug/L	95			65	135	
	n-Butylbenzene	20	18.4	ug/L	92			49	157	
	1,2-Dichlorobenzene	20	19.1	ug/L	96			65	135	
	1,2-Dibromo-3-Chloropropane	20	19.2	ug/L	96			69	122	
	1,2,4-Trichlorobenzene	20	17.9	ug/L	90			61	118	
	Hexachlorobutadiene	20	18.5	ug/L	93			16	187	
	Naphthalene	20	16.8	ug/L	84			45	152	
	1,2,3-Trichlorobenzene	20	17.9	ug/L	90			38	159	
	Methyl iodide	20	17.8	ug/L	89			70	130	
	Methyl methacrylate	20	17.2	ug/L	86			70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1 **Datafile :** VN084506.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1025WBSD01	Dichlorodifluoromethane	20	17.2	ug/L	86	2		72	118	20
	Chloromethane	20	16.8	ug/L	84	5		1	205	20
	Vinyl Chloride	20	18.0	ug/L	90	1		5	195	20
	Bromomethane	20	17.2	ug/L	86	2		15	185	20
	Chloroethane	20	18.6	ug/L	93	0		40	160	20
	Trichlorofluoromethane	20	18.3	ug/L	92	2		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	18.9	ug/L	95	5		64	127	20
	1,1-Dichloroethene	20	17.9	ug/L	90	3		50	150	20
	Acrolein	100	100	ug/L	100	1		60	140	20
	Acrylonitrile	100	92.5	ug/L	93	4		60	140	20
	Acetone	100	110	ug/L	110	0		41	148	20
	Carbon disulfide	20	15.9	ug/L	79	5		76	107	20
	Methyl tert-butyl Ether	20	19.1	ug/L	96	2		82	114	20
	Methyl Acetate	20	21.9	ug/L	110	4		63	139	20
	Methylene Chloride	20	18.7	ug/L	94	1		60	140	20
	trans-1,2-Dichloroethene	20	17.5	ug/L	88	1		70	130	20
	1,1-Dichloroethane	20	18.7	ug/L	94	0		70	130	20
	Cyclohexane	20	17.2	ug/L	86	2		79	113	20
	2-Butanone	100	97.6	ug/L	98	2		69	129	20
	Carbon Tetrachloride	20	18.5	ug/L	93	1		70	130	20
	2,2-Dichloropropane	20	19.2	ug/L	96	1		62	139	20
	cis-1,2-Dichloroethene	20	18.4	ug/L	92	1		81	112	20
	Chloroform	20	18.8	ug/L	94	3		70	135	20
	1,1,1-Trichloroethane	20	18.2	ug/L	91	0		70	130	20
	Methylcyclohexane	20	17.1	ug/L	86	1		79	112	20
	1,1-Dichloropropene	20	17.5	ug/L	88	1		70	139	20
	Benzene	20	18.5	ug/L	93	2		65	135	20
	1,2-Dichloroethane	20	18.7	ug/L	94	0		70	130	20
	Trichloroethene	20	18.5	ug/L	93	0		65	135	20
	1,2-Dichloropropane	20	18.2	ug/L	91	1		35	165	20
	Dibromomethane	20	18.4	ug/L	92	0		72	138	20
	Bromodichloromethane	20	18.5	ug/L	93	3		65	135	20
	4-Methyl-2-Pentanone	100	95.9	ug/L	96	3		73	131	20
	Toluene	20	18.6	ug/L	93	1		70	130	20
	t-1,3-Dichloropropene	20	17.8	ug/L	89	0		50	150	20
	cis-1,3-Dichloropropene	20	18.6	ug/L	93	2		25	175	20
	1,1,2-Trichloroethane	20	18.6	ug/L	93	1		70	130	20
	1,3-Dichloropropane	20	18.5	ug/L	93	1		70	141	20
	2-Hexanone	100	97.3	ug/L	97	3		72	128	20
	Dibromochloromethane	20	18.3	ug/L	92	3		70	135	20
	1,2-Dibromoethane	20	18.0	ug/L	90	0		86	114	20
	Tetrachloroethene	20	18.5	ug/L	93	4		70	130	20
	Chlorobenzene	20	18.5	ug/L	93	0		65	135	20
	1,1,1,2-Tetrachloroethane	20	18.9	ug/L	95	2		63	138	20
	Hexachloroethane	20	17.6	ug/L	88	4		70	130	20
	Ethyl Benzene	20	18.2	ug/L	91	2		60	140	20
	m/p-Xylenes	40	37.3	ug/L	93	1		87	111	20
	o-Xylene	20	18.5	ug/L	93	1		87	111	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1 **Datafile :** VN084506.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1025WBSD01	Styrene	20	18.3	ug/L	92	2		85	106	20
	Bromoform	20	18.2	ug/L	91	1		70	130	20
	Isopropylbenzene	20	18.5	ug/L	93	2		86	112	20
	1,1,2,2-Tetrachloroethane	20	19.1	ug/L	96	1		60	140	20
	1,2,3-Trichloropropane	20	21.3	ug/L	106	16		61	148	20
	Bromobenzene	20	18.2	ug/L	91	5		59	142	20
	N-propylbenzene	20	18.3	ug/L	92	3		67	139	20
	2-Chlorotoluene	20	18.6	ug/L	93	2		66	138	20
	1,3,5-Trimethylbenzene	20	18.5	ug/L	93	3		66	139	20
	4-Chlorotoluene	20	18.3	ug/L	92	2		66	141	20
	tert-Butylbenzene	20	18.8	ug/L	94	2		56	140	20
	1,2,4-Trimethylbenzene	20	18.1	ug/L	91	4		63	142	20
	Sec-butylbenzene	20	18.5	ug/L	93	2		63	144	20
	p-Isopropyltoluene	20	18.3	ug/L	92	1		57	147	20
	1,3-Dichlorobenzene	20	18.5	ug/L	93	3		70	130	20
	1,4-Dichlorobenzene	20	18.0	ug/L	90	5		65	135	20
	n-Butylbenzene	20	17.4	ug/L	87	6		49	157	20
	1,2-Dichlorobenzene	20	18.4	ug/L	92	4		65	135	20
	1,2-Dibromo-3-Chloropropane	20	19.0	ug/L	95	1		69	122	20
	1,2,4-Trichlorobenzene	20	17.6	ug/L	88	2		61	118	20
	Hexachlorobutadiene	20	17.6	ug/L	88	6		16	187	20
	Naphthalene	20	16.7	ug/L	84	0		45	152	20
	1,2,3-Trichlorobenzene	20	17.6	ug/L	88	2		38	159	20
	Methyl iodide	20	17.5	ug/L	88	1		70	130	20
	Methyl methacrylate	20	18.0	ug/L	90	5		70	130	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1025WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG NO.: P4549

Lab File ID: VN084507.D Lab Sample ID: VN1025WBL01

Date Analyzed: 10/25/2024 Time Analyzed: 11:27

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
VN1025WBS01	VN1025WBS01	VN084505.D	10/25/2024
VN1025WBSD01	VN1025WBSD01	VN084506.D	10/25/2024
TT-TB-20241024	P4549-01	VN084512.D	10/25/2024
TT-068-IDWGW-20241024	P4549-03	VN084515.D	10/25/2024
TT-067-IDWGW-20241024	P4549-02	VN084516.D	10/25/2024
TT-069-IDWGW-20241024	P4549-04	VN084517.D	10/25/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG NO.: P4549

Lab File ID: VN084336.D BFB Injection Date: 10/08/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:08

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	19
75	30.0 - 60.0% of mass 95	51.1
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	0.8 (1) 1
174	50.0 - 100.0% of mass 95	73.7
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.3 (95.4) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC150	VSTDICC150	VN084337.D	10/08/2024	09:43
VSTDICC100	VSTDICC100	VN084338.D	10/08/2024	10:07
VSTDICC050	VSTDICC050	VN084339.D	10/08/2024	10:31
VSTDICCC020	VSTDICCC020	VN084340.D	10/08/2024	10:55
VSTDICC005	VSTDICC005	VN084341.D	10/08/2024	11:19

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG NO.: P4549

Lab File ID: VN084502.D BFB Injection Date: 10/25/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:21

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	19.4
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.4 (7.1) 1
176	95.0 - 101.0% of mass 174	72.6 (95.4) 1
177	5.0 - 9.0% of mass 176	4.5 (6.2) 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
VSTDCCC020	VSTDCCC020	VN084504.D	10/25/2024	10:04
VN1025WBS01	VN1025WBS01	VN084505.D	10/25/2024	10:40
VN1025WBSD01	VN1025WBSD01	VN084506.D	10/25/2024	11:04
VN1025WBL01	VN1025WBL01	VN084507.D	10/25/2024	11:27
TT-TB-20241024	P4549-01	VN084512.D	10/25/2024	13:39
TT-068-IDWGW-20241024	P4549-03	VN084515.D	10/25/2024	14:51
TT-067-IDWGW-20241024	P4549-02	VN084516.D	10/25/2024	15:15
TT-069-IDWGW-20241024	P4549-04	VN084517.D	10/25/2024	15:39
VSTDCCC020EC	VSTDCCC020	VN084527.D	10/25/2024	19:37

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG NO.: P4549

Lab File ID: VN084504.D Date Analyzed: 10/25/2024

Instrument ID: MSVOA_N Time Analyzed: 10:04

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	35506	7.81	200200	9.10	180518	11.87
UPPER LIMIT	71012	8.312	400400	9.6	361036	12.365
LOWER LIMIT	17753	7.312	100100	8.6	90259	11.365
EPA SAMPLE NO.						
TT-TB-20241024	29940	7.82	152700	9.10	136002	11.87
TT-067-IDWGW-20241024	28275	7.81	137388	9.10	125598	11.87
TT-068-IDWGW-20241024	29141	7.82	145814	9.10	133742	11.87
TT-069-IDWGW-20241024	27891	7.81	142505	9.10	128076	11.87
VN1025WBL01	32302	7.81	175246	9.10	150285	11.87
VN1025WBS01	35006	7.81	196424	9.10	178483	11.87
VN1025WBSD01	34702	7.81	195213	9.10	177752	11.87

IS1 = Bromochloromethane
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.

QC SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN1025WBL01	SDG No.:	P4549
Lab Sample ID:	VN1025WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084507.D	1		10/25/24 11:27	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	1.20	U	1.20	5.00	ug/L
74-87-3	Chloromethane	1.20	U	1.20	5.00	ug/L
75-01-4	Vinyl Chloride	1.20	U	1.20	5.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	2.90	U	2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	1.00	U	1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.10	U	1.10	5.00	ug/L
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
67-64-1	Acetone	4.90	U	4.90	25.0	ug/L
75-15-0	Carbon Disulfide	0.93	U	0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.83	U	0.83	5.00	ug/L
79-20-9	Methyl Acetate	1.20	U	1.20	5.00	ug/L
75-09-2	Methylene Chloride	1.20	U	1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.95	U	0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	0.81	U	0.81	5.00	ug/L
110-82-7	Cyclohexane	1.00	U	1.00	5.00	ug/L
78-93-3	2-Butanone	3.60	U	3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.91	U	0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	1.10	U	1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.90	U	0.90	5.00	ug/L
67-66-3	Chloroform	0.72	U	0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.79	U	0.79	5.00	ug/L
108-87-2	Methylcyclohexane	0.89	U	0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.75	U	0.75	5.00	ug/L
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.77	U	0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.65	U	0.65	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:	VN1025WBL01	SDG No.:	P4549
Lab Sample ID:	VN1025WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084507.D	1		10/25/24 11:27	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	0.70	U	0.70	5.00	ug/L
75-27-4	Bromodichloromethane	0.81	U	0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	4.20	U	4.20	25.0	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.79	U	0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.83	U	0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.68	U	0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.68	U	0.68	5.00	ug/L
591-78-6	2-Hexanone	3.90	U	3.90	25.0	ug/L
124-48-1	Dibromochloromethane	0.72	U	0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.78	U	0.78	5.00	ug/L
127-18-4	Tetrachloroethene	0.94	U	0.94	5.00	ug/L
108-90-7	Chlorobenzene	0.67	U	0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.91	U	0.91	5.00	ug/L
67-72-1	Hexachloroethane	0.91	U	0.91	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	1.70	U	1.70	10.0	ug/L
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/L
100-42-5	Styrene	0.80	U	0.80	5.00	ug/L
75-25-2	Bromoform	1.00	U	1.00	5.00	ug/L
98-82-8	Isopropylbenzene	0.85	U	0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.60	U	0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	1.70	U	1.70	5.00	ug/L
108-86-1	Bromobenzene	0.69	U	0.69	5.00	ug/L
103-65-1	n-propylbenzene	0.80	U	0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	0.81	U	0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.74	U	0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	0.82	U	0.82	5.00	ug/L
98-06-6	tert-butylbenzene	0.77	U	0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.83	U	0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	0.77	U	0.77	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:	VN1025WBL01	SDG No.:	P4549
Lab Sample ID:	VN1025WBL01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084507.D	1		10/25/24 11:27	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	0.82	U	0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.00	ug/L
104-51-8	n-Butylbenzene	0.86	U	0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.88	U	0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.91	U	0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.10	U	1.10	5.00	ug/L
91-20-3	Naphthalene	1.40	U	1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.40	U	1.40	5.00	ug/L
74-88-4	Methyl Iodide	0.94	U	0.94	5.00	ug/L
80-62-6	Methyl methacrylate	1.00	U	1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.0		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	30.1		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	26.2		63 - 112	87%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32300	7.812			
540-36-3	1,4-Difluorobenzene	175000	9.1			
3114-55-4	Chlorobenzene-d5	150000	11.865			

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:	VN1025WBS01	SDG No.:	P4549
Lab Sample ID:	VN1025WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084505.D	1		10/25/24 10:40	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.5		1.20	5.00	ug/L
74-87-3	Chloromethane	17.5		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	18.2		1.20	5.00	ug/L
74-83-9	Bromomethane	17.5		1.40	5.00	ug/L
75-00-3	Chloroethane	18.5		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.7		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		1.10	5.00	ug/L
107-02-8	Acrolein	99.2		9.30	25.0	ug/L
107-13-1	Acrylonitrile	89.2		3.70	25.0	ug/L
67-64-1	Acetone	110		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	16.5		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	18.8		0.83	5.00	ug/L
79-20-9	Methyl Acetate	21.2		1.20	5.00	ug/L
75-09-2	Methylene Chloride	19.0		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.8		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	18.8		0.81	5.00	ug/L
110-82-7	Cyclohexane	17.5		1.00	5.00	ug/L
78-93-3	2-Butanone	95.6		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.7		0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	19.4		1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.5		0.90	5.00	ug/L
67-66-3	Chloroform	19.4		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.1		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	17.4		0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	17.8		0.75	5.00	ug/L
71-43-2	Benzene	18.2		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.75	5.00	ug/L
79-01-6	Trichloroethene	18.5		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	18.4		0.65	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:	VN1025WBS01	SDG No.:	P4549
Lab Sample ID:	VN1025WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084505.D	1		10/25/24 10:40	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	18.4		0.70	5.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.6		4.20	25.0	ug/L
108-88-3	Toluene	18.8		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.8		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.1		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.7		0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	18.7		0.68	5.00	ug/L
591-78-6	2-Hexanone	94.4		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	18.9		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	18.0		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.94	5.00	ug/L
108-90-7	Chlorobenzene	18.5		0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.3		0.91	5.00	ug/L
67-72-1	Hexachloroethane	18.3		0.91	5.00	ug/L
100-41-4	Ethyl Benzene	18.6		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	37.6		1.70	10.0	ug/L
95-47-6	o-Xylene	18.4		0.82	5.00	ug/L
100-42-5	Styrene	18.8		0.80	5.00	ug/L
75-25-2	Bromoform	17.9		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	19.0		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.9		0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	18.0		1.70	5.00	ug/L
108-86-1	Bromobenzene	19.1		0.69	5.00	ug/L
103-65-1	n-propylbenzene	19.0		0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	19.0		0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.1		0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	18.8		0.82	5.00	ug/L
98-06-6	tert-butylbenzene	19.2		0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.0		0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	19.0		0.77	5.00	ug/L

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:	VN1025WBS01	SDG No.:	P4549
Lab Sample ID:	VN1025WBS01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084505.D	1		10/25/24 10:40	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	18.6		0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.9		0.95	5.00	ug/L
104-51-8	n-Butylbenzene	18.4		0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.1		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.9		1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	18.5		1.10	5.00	ug/L
91-20-3	Naphthalene	16.8		1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.9		1.40	5.00	ug/L
74-88-4	Methyl Iodide	17.8		0.94	5.00	ug/L
80-62-6	Methyl methacrylate	17.2		1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.9		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.6		63 - 112	102%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	35000	7.812			
540-36-3	1,4-Difluorobenzene	196000	9.1			
3114-55-4	Chlorobenzene-d5	178000	11.865			

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

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

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN1025WBSD01	SDG No.:	P4549
Lab Sample ID:	VN1025WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084506.D	1		10/25/24 11:04	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.2		1.20	5.00	ug/L
74-87-3	Chloromethane	16.8		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	18.0		1.20	5.00	ug/L
74-83-9	Bromomethane	17.2		1.40	5.00	ug/L
75-00-3	Chloroethane	18.6		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	18.3		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.9		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		1.10	5.00	ug/L
107-02-8	Acrolein	100		9.30	25.0	ug/L
107-13-1	Acrylonitrile	92.5		3.70	25.0	ug/L
67-64-1	Acetone	110		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	15.9		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	19.1		0.83	5.00	ug/L
79-20-9	Methyl Acetate	21.9		1.20	5.00	ug/L
75-09-2	Methylene Chloride	18.7		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.5		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.81	5.00	ug/L
110-82-7	Cyclohexane	17.2		1.00	5.00	ug/L
78-93-3	2-Butanone	97.6		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	19.2		1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.90	5.00	ug/L
67-66-3	Chloroform	18.8		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.2		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	17.1		0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	17.5		0.75	5.00	ug/L
71-43-2	Benzene	18.5		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.75	5.00	ug/L
79-01-6	Trichloroethene	18.5		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	18.2		0.65	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:	VN1025WBSD01	SDG No.:	P4549
Lab Sample ID:	VN1025WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084506.D	1		10/25/24 11:04	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	18.4		0.70	5.00	ug/L
75-27-4	Bromodichloromethane	18.5		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.9		4.20	25.0	ug/L
108-88-3	Toluene	18.6		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.8		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.6		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.6		0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	18.5		0.68	5.00	ug/L
591-78-6	2-Hexanone	97.3		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	18.3		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	18.0		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.94	5.00	ug/L
108-90-7	Chlorobenzene	18.5		0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	18.9		0.91	5.00	ug/L
67-72-1	Hexachloroethane	17.6		0.91	5.00	ug/L
100-41-4	Ethyl Benzene	18.2		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	37.3		1.70	10.0	ug/L
95-47-6	o-Xylene	18.5		0.82	5.00	ug/L
100-42-5	Styrene	18.3		0.80	5.00	ug/L
75-25-2	Bromoform	18.2		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	18.5		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.1		0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	21.3		1.70	5.00	ug/L
108-86-1	Bromobenzene	18.2		0.69	5.00	ug/L
103-65-1	n-propylbenzene	18.3		0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	18.6		0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.5		0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	18.3		0.82	5.00	ug/L
98-06-6	tert-butylbenzene	18.8		0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	18.1		0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	18.5		0.77	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:	VN1025WBSD01	SDG No.:	P4549
Lab Sample ID:	VN1025WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group4
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN084506.D	1		10/25/24 11:04	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	18.3		0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.5		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.0		0.95	5.00	ug/L
104-51-8	n-Butylbenzene	17.4		0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.4		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.6		1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	17.6		1.10	5.00	ug/L
91-20-3	Naphthalene	16.7		1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.6		1.40	5.00	ug/L
74-88-4	Methyl Iodide	17.5		0.94	5.00	ug/L
80-62-6	Methyl methacrylate	18.0		1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.5		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.3		63 - 112	101%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	34700	7.812			
540-36-3	1,4-Difluorobenzene	195000	9.1			
3114-55-4	Chlorobenzene-d5	178000	11.865			

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

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:43 11:19

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

LAB FILE ID: RRF150 = VN084337.D RRF100 = VN084338.D RRF050 = VN084339.D
RRF020 = VN084340.D RRF005 = VN084341.D RRF =

COMPOUND	RRF150	RRF100	RRF050	RRF020	RRF005	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.784	1.757	1.768	1.931	1.918		1.832	4.7
Chloromethane	2.067	2.037	2.024	2.146	2.148		2.084	2.8
Vinyl Chloride	2.018	1.986	2.005	2.098	2.113		2.044	2.8
Bromomethane	1.236	1.234	1.249	1.418	1.635		1.354	12.9
Chloroethane	1.264	1.205	1.228	1.396	1.607		1.340	12.4
Trichlorofluoromethane	3.237	3.246	3.256	3.403	3.505		3.329	3.6
1,1,2-Trichlorotrifluoroethane	1.861	1.829	1.799	1.891	1.981		1.872	3.7
1,1-Dichloroethene	1.833	1.832	1.870	1.834	1.971		1.868	3.2
Acrolein	0.440	0.450	0.431	0.402	0.449		0.434	4.5
Acrylonitrile	1.069	1.026	1.064	1.069	1.024		1.051	2.2
Acetone	0.329	0.315	0.306	0.286	0.265		0.300	8.3
Carbon Disulfide	5.386	5.270	5.346	5.704	6.106		5.562	6.2
Methyl tert-Butyl Ether	6.327	6.268	6.286	6.312	6.019		6.242	2
Methyl Acetate	2.383	2.367	2.435	2.287	2.221		2.339	3.6
Methylene Chloride	2.067	2.014	2.090	2.147	2.203		2.104	3.5
trans-1,2-Dichloroethene	1.948	1.923	1.947	2.012	2.055		1.977	2.8
1,1-Dichloroethane	3.674	3.601	3.659	3.837	3.908		3.736	3.5
Cyclohexane	0.594	0.572	0.559	0.590	0.535		0.570	4.2
2-Butanone	0.275	0.269	0.268	0.257	0.242		0.262	5
Carbon Tetrachloride	0.556	0.548	0.531	0.544	0.547		0.545	1.6
2,2-Dichloropropane	0.605	0.583	0.569	0.576	0.560		0.579	3
cis-1,2-Dichloroethene	2.321	2.240	2.294	2.364	2.284		2.300	2
Chloroform	3.759	3.650	3.795	3.901	3.812		3.783	2.4
1,1,1-Trichloroethane	0.630	0.629	0.619	0.648	0.621		0.629	1.8
Methylcyclohexane	0.593	0.566	0.535	0.519	0.491		0.541	7.4
1,1-Dichloropropene	0.508	0.493	0.487	0.493	0.482		0.492	2
Benzene	1.571	1.514	1.511	1.557	1.555		1.542	1.8
1,2-Dichloroethane	0.520	0.505	0.508	0.522	0.515		0.514	1.4
Trichloroethene	0.358	0.353	0.345	0.366	0.353		0.355	2.1
1,2-Dichloropropane	0.384	0.371	0.363	0.386	0.375		0.376	2.5

* 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.

Alliance TECHNICAL GROUP
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:43 11:19

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

LAB FILE ID: RRF150 = VN084337.D RRF100 = VN084338.D RRF050 = VN084339.D
RRF020 = VN084340.D RRF005 = VN084341.D RRF =

COMPOUND	RRF150	RRF100	RRF050	RRF020	RRF005	RRF	$\overline{RRF}$	% RSD
Dibromomethane	0.268	0.257	0.257	0.263	0.269		0.263	2.1
Bromodichloromethane	0.568	0.552	0.550	0.559	0.559		0.558	1.3
4-Methyl-2-Pentanone	0.580	0.565	0.573	0.559	0.517		0.559	4.4
Toluene	1.775	1.732	1.746	1.761	1.767		1.756	1
t-1,3-Dichloropropene	0.603	0.581	0.573	0.561	0.564		0.576	2.9
cis-1,3-Dichloropropene	0.637	0.616	0.603	0.613	0.551		0.604	5.3
1,1,2-Trichloroethane	0.356	0.349	0.350	0.354	0.358		0.353	1.1
1,3-Dichloropropane	0.627	0.610	0.607	0.625	0.619		0.617	1.5
2-Hexanone	0.440	0.428	0.434	0.408	0.367		0.415	7.2
Dibromochloromethane	0.431	0.417	0.416	0.416	0.407		0.417	2
1,2-Dibromoethane	0.371	0.363	0.361	0.370	0.352		0.364	2.1
Tetrachloroethene	0.338	0.328	0.332	0.342	0.357		0.339	3.4
Chlorobenzene	1.102	1.069	1.072	1.086	1.136		1.093	2.5
1,1,1,2-Tetrachloroethane	0.386	0.374	0.380	0.383	0.377		0.380	1.2
Hexachloroethane	0.302	0.289	0.282	0.279	0.276		0.286	3.6
Ethyl Benzene	2.037	1.969	1.930	1.889	1.715		1.908	6.3
m/p-Xylenes	0.768	0.732	0.740	0.725	0.654		0.724	5.9
o-Xylene	0.738	0.710	0.708	0.692	0.641		0.698	5.2
Styrene	1.289	1.232	1.226	1.183	1.059		1.198	7.2
Bromoform	0.295	0.287	0.276	0.264	0.261		0.277	5.2
Isopropylbenzene	1.892	1.828	1.813	1.786	1.587		1.781	6.5
1,1,2,2-Tetrachloroethane	0.562	0.544	0.557	0.549	0.543		0.551	1.5
1,2,3-Trichloropropane	0.492	0.471	0.479	0.466	0.452		0.472	3.1
Bromobenzene	0.446	0.431	0.435	0.428	0.416		0.431	2.5
n-propylbenzene	2.289	2.177	2.158	2.107	1.881		2.123	7.1
2-Chlorotoluene	1.396	1.329	1.315	1.322	1.233		1.319	4.4
1,3,5-Trimethylbenzene	1.614	1.543	1.532	1.488	1.323		1.500	7.3
4-Chlorotoluene	1.428	1.353	1.352	1.323	1.248		1.341	4.8
tert-butylbenzene	1.376	1.330	1.309	1.260	1.122		1.279	7.6
1,2,4-Trimethylbenzene	1.642	1.567	1.550	1.502	1.347		1.522	7.2

* 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.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Calibration Time(s): 09:43 11:19

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

LAB FILE ID: RRF150 = VN084337.D RRF100 = VN084338.D RRF050 = VN084339.D
RRF020 = VN084340.D RRF005 = VN084341.D RRF =

COMPOUND	RRF150	RRF100	RRF050	RRF020	RRF005	RRF	$\overline{RRF}$	% RSD
sec-Butylbenzene	1.913	1.831	1.794	1.746	1.522		1.762	8.3
p-Isopropyltoluene	1.641	1.549	1.499	1.439	1.286		1.483	8.9
1,3-Dichlorobenzene	0.851	0.811	0.808	0.790	0.750		0.802	4.6
1,4-Dichlorobenzene	0.842	0.805	0.788	0.761	0.786		0.796	3.8
n-Butylbenzene	1.484	1.371	1.302	1.199	1.065		1.284	12.5
1,2-Dichlorobenzene	0.811	0.783	0.780	0.756	0.748		0.775	3.2
1,2-Dibromo-3-Chloropropane	0.120	0.116	0.119	0.110	0.098		0.113	8
1,2,4-Trichlorobenzene	0.436	0.416	0.410	0.381	0.372		0.403	6.5
Hexachlorobutadiene	0.183	0.177	0.179	0.173	0.220		0.187	10.3
Naphthalene	1.554	1.481	1.420	1.285	1.093		1.366	13.3
1,2,3-Trichlorobenzene	0.436	0.416	0.410	0.381	0.372		0.403	6.5
1,2-Dichloroethane-d4	2.393	2.419	2.371	2.467	2.428		2.415	1.5
Toluene-d8	1.397	1.374	1.378	1.395	1.404		1.390	0.9
4-Bromofluorobenzene	0.514	0.506	0.498	0.492	0.465		0.495	3.8
Methyl Iodide	2.503	2.450	2.473	2.469	2.378		2.455	1.9
Methyl methacrylate	0.431	0.420	0.420	0.404	0.369		0.409	5.9

* 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 CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 10:04

Lab File ID: VN084504.D Init. Calib. Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:43 11:19

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.832	1.676		-8.52	
Chloromethane	2.084	1.831		-12.14	
Vinyl Chloride	2.044	1.874	0.1	-8.32	
Bromomethane	1.354	1.189	0.1	-12.19	
Chloroethane	1.340	1.274		-4.93	
Trichlorofluoromethane	3.329	3.123		-6.19	
1,1,2-Trichlorotrifluoroethane	1.872	1.862		-0.53	
1,1-Dichloroethene	1.868	1.715	0.1	-8.19	
Acrolein	0.434	0.431		-0.69	
Acrylonitrile	1.051	0.953		-9.32	
Acetone	0.300	0.368		22.67	
Carbon Disulfide	5.562	4.632		-16.72	
Methyl tert-Butyl Ether	6.242	5.963		-4.47	
Methyl Acetate	2.339	2.483		6.16	
Methylene Chloride	2.104	1.939		-7.84	
trans-1,2-Dichloroethene	1.977	1.797		-9.1	
1,1-Dichloroethane	3.736	3.621	0.2	-3.08	
Cyclohexane	0.570	0.489		-14.21	
2-Butanone	0.262	0.252		-3.82	
Carbon Tetrachloride	0.545	0.504	0.1	-7.52	
2,2-Dichloropropane	0.579	0.569		-1.73	
cis-1,2-Dichloroethene	2.300	2.240		-2.61	
Chloroform	3.783	3.824	0.2	1.08	
1,1,1-Trichloroethane	0.629	0.603	0.1	-4.13	
Methylcyclohexane	0.541	0.486		-10.17	
1,1-Dichloropropene	0.492	0.447		-9.15	
Benzene	1.542	1.442	0.5	-6.49	
1,2-Dichloroethane	0.514	0.488	0.1	-5.06	
Trichloroethene	0.355	0.335	0.3	-5.63	
1,2-Dichloropropane	0.376	0.353		-6.12	
Dibromomethane	0.263	0.248		-5.7	
Bromodichloromethane	0.558	0.524	0.2	-6.09	
4-Methyl-2-Pentanone	0.559	0.530		-5.19	
Toluene	1.756	1.683	0.4	-4.16	
t-1,3-Dichloropropene	0.576	0.532	0.1	-7.64	
cis-1,3-Dichloropropene	0.604	0.565	0.2	-6.46	
1,1,2-Trichloroethane	0.353	0.335	0.1	-5.1	
1,3-Dichloropropane	0.617	0.579		-6.16	

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.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 10:04

Lab File ID: VN084504.D Init. Calib. Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:43 11:19

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.415	0.406		-2.17	
Dibromochloromethane	0.417	0.392	0.1	-5.99	
1,2-Dibromoethane	0.364	0.334		-8.24	
Tetrachloroethene	0.339	0.348	0.2	2.65	
Chlorobenzene	1.093	1.036	0.5	-5.22	
1,1,1,2-Tetrachloroethane	0.380	0.376		-1.05	
Hexachloroethane	0.286	0.267		-6.64	
Ethyl Benzene	1.908	1.839	0.1	-3.62	
m/p-Xylenes	0.724	0.700	0.3	-3.32	
o-Xylene	0.698	0.660	0.3	-5.44	
Styrene	1.198	1.135	0.3	-5.26	
Bromoform	0.277	0.257	0.1	-7.22	
Isopropylbenzene	1.781	1.702		-4.44	
1,1,2,2-Tetrachloroethane	0.551	0.534	0.3	-3.09	
1,2,3-Trichloropropane	0.472	0.431		-8.69	
Bromobenzene	0.431	0.413		-4.18	
n-propylbenzene	2.123	2.073		-2.36	
2-Chlorotoluene	1.319	1.281		-2.88	
1,3,5-Trimethylbenzene	1.500	1.481		-1.27	
4-Chlorotoluene	1.341	1.299		-3.13	
tert-butylbenzene	1.279	1.245		-2.66	
1,2,4-Trimethylbenzene	1.522	1.452		-4.6	
sec-Butylbenzene	1.762	1.726		-2.04	
p-Isopropyltoluene	1.483	1.429		-3.64	
1,3-Dichlorobenzene	0.802	0.774	0.2	-3.49	
1,4-Dichlorobenzene	0.796	0.772	0.2	-3.02	
n-Butylbenzene	1.284	1.218		-5.14	
1,2-Dichlorobenzene	0.775	0.774	0.2	-0.13	
1,2-Dibromo-3-Chloropropane	0.113	0.109		-3.54	
1,2,4-Trichlorobenzene	0.403	0.370	0.2	-8.19	
Hexachlorobutadiene	0.187	0.184		-1.6	
Naphthalene	1.366	1.162		-14.93	
1,2,3-Trichlorobenzene	0.403	0.370		-8.19	
1,2-Dichloroethane-d4	2.415	2.412	0.01	-0.12	
Toluene-d8	1.390	1.390	0.01	0	
4-Bromofluorobenzene	0.495	0.511	0.2	3.23	
Methyl Iodide	2.455	2.262		-7.86	
Methyl methacrylate	0.409	0.351		-14.18	

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.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 19:37

Lab File ID: VN084527.D Init. Calib. Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:43 11:19

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.832	1.694		-7.53	50
Chloromethane	2.084	1.957		-6.09	50
Vinyl Chloride	2.044	1.938	0.1	-5.19	50
Bromomethane	1.354	1.250	0.1	-7.68	50
Chloroethane	1.340	1.229		-8.28	50
Trichlorofluoromethane	3.329	3.208		-3.63	50
1,1,2-Trichlorotrifluoroethane	1.872	1.881		0.48	50
1,1-Dichloroethene	1.868	1.752	0.1	-6.21	50
Acrolein	0.434	0.424		-2.3	50
Acrylonitrile	1.051	0.946		-9.99	50
Acetone	0.300	0.258		-14	50
Carbon Disulfide	5.562	4.811		-13.5	50
Methyl tert-Butyl Ether	6.242	5.925		-5.08	50
Methyl Acetate	2.339	2.432		3.98	50
Methylene Chloride	2.104	2.094		-0.47	50
trans-1,2-Dichloroethene	1.977	1.851		-6.37	50
1,1-Dichloroethane	3.736	3.694	0.2	-1.12	50
Cyclohexane	0.570	0.523		-8.25	50
2-Butanone	0.262	0.236		-9.92	50
Carbon Tetrachloride	0.545	0.538	0.1	-1.28	50
2,2-Dichloropropane	0.579	0.448		-22.63	50
cis-1,2-Dichloroethene	2.300	2.230		-3.04	50
Chloroform	3.783	3.831	0.2	1.27	50
1,1,1-Trichloroethane	0.629	0.624	0.1	-0.8	50
Methylcyclohexane	0.541	0.468		-13.49	50
1,1-Dichloropropene	0.492	0.465		-5.49	50
Benzene	1.542	1.548	0.5	0.39	50
1,2-Dichloroethane	0.514	0.521	0.1	1.36	50
Trichloroethene	0.355	0.350	0.3	-1.41	50
1,2-Dichloropropane	0.376	0.372		-1.06	50
Dibromomethane	0.263	0.259		-1.52	50
Bromodichloromethane	0.558	0.558	0.2	0	50
4-Methyl-2-Pentanone	0.559	0.534		-4.47	50
Toluene	1.756	1.770	0.4	0.8	50
t-1,3-Dichloropropene	0.576	0.526	0.1	-8.68	50
cis-1,3-Dichloropropene	0.604	0.571	0.2	-5.46	50
1,1,2-Trichloroethane	0.353	0.360	0.1	1.98	50
1,3-Dichloropropane	0.617	0.600		-2.76	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.: P4549 SAS No.: P4549 SDG No.: P4549

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 19:37

Lab File ID: VN084527.D Init. Calib. Date(s): 10/08/2024 10/08/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:43 11:19

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.415	0.386		-6.99	50
Dibromochloromethane	0.417	0.423	0.1	1.44	50
1,2-Dibromoethane	0.364	0.350		-3.85	50
Tetrachloroethene	0.339	0.351	0.2	3.54	50
Chlorobenzene	1.093	1.081	0.5	-1.1	50
1,1,1,2-Tetrachloroethane	0.380	0.388		2.11	50
Hexachloroethane	0.286	0.274		-4.2	50
Ethyl Benzene	1.908	1.839	0.1	-3.62	50
m/p-Xylenes	0.724	0.719	0.3	-0.69	50
o-Xylene	0.698	0.686	0.3	-1.72	50
Styrene	1.198	1.171	0.3	-2.25	50
Bromoform	0.277	0.264	0.1	-4.69	50
Isopropylbenzene	1.781	1.714		-3.76	50
1,1,2,2-Tetrachloroethane	0.551	0.548	0.3	-0.54	50
1,2,3-Trichloropropane	0.472	0.515		9.11	50
Bromobenzene	0.431	0.443		2.78	50
n-propylbenzene	2.123	2.063		-2.83	50
2-Chlorotoluene	1.319	1.315		-0.3	50
1,3,5-Trimethylbenzene	1.500	1.512		0.8	50
4-Chlorotoluene	1.341	1.316		-1.86	50
tert-butylbenzene	1.279	1.238		-3.21	50
1,2,4-Trimethylbenzene	1.522	1.492		-1.97	50
sec-Butylbenzene	1.762	1.731		-1.76	50
p-Isopropyltoluene	1.483	1.413		-4.72	50
1,3-Dichlorobenzene	0.802	0.799	0.2	-0.37	50
1,4-Dichlorobenzene	0.796	0.779	0.2	-2.14	50
n-Butylbenzene	1.284	1.164		-9.35	50
1,2-Dichlorobenzene	0.775	0.752	0.2	-2.97	50
1,2-Dibromo-3-Chloropropane	0.113	0.101		-10.62	50
1,2,4-Trichlorobenzene	0.403	0.374	0.2	-7.2	50
Hexachlorobutadiene	0.187	0.166		-11.23	50
Naphthalene	1.366	1.139		-16.62	50
1,2,3-Trichlorobenzene	0.403	0.374		-7.2	50
1,2-Dichloroethane-d4	2.415	2.425	0.01	0.41	50
Toluene-d8	1.390	1.397	0.01	0.5	50
4-Bromofluorobenzene	0.495	0.489	0.2	-1.21	50
Methyl Iodide	2.455	2.276		-7.29	50
Methyl methacrylate	0.409	0.376		-8.07	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:	P4549	**OrderDate:**	10/24/2024 4:00:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4549-02	**TT-067-IDWGW-2024 1024**	**WATER**			**10/24/24**			**10/24/24**
			PCB	8082A		10/25/24	10/25/24	
P4549-02RE	**TT-067-IDWGW-2024 1024RE**	**WATER**			**10/24/24**			**10/24/24**
			PCB	8082A		10/25/24	10/28/24	
P4549-03	**TT-068-IDWGW-2024 1024**	**WATER**			**10/24/24**			**10/24/24**
			PCB	8082A		10/25/24	10/26/24	
P4549-03RE	**TT-068-IDWGW-2024 1024RE**	**WATER**			**10/24/24**			**10/24/24**
			PCB	8082A		10/25/24	10/28/24	
P4549-04	**TT-069-IDWGW-2024 1024**	**WATER**			**10/24/24**			**10/24/24**
			PCB	8082A		10/25/24	10/25/24	
P4549-04RE	**TT-069-IDWGW-2024 1024RE**	**WATER**			**10/24/24**			**10/24/24**
			PCB	8082A		10/25/24	10/28/24	

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Hit Summary Sheet
SW-846

SDG No.: P4549 **Order ID:** P4549

Client: Tetra Tech NUS, Inc. **Project ID:** CTO WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units

Client ID :

Total Concentration: **0.000**

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-067-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-02	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107407.D	1	10/25/24 09:10	10/25/24 23:49	PB164403

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.41	U	0.15	0.41	0.51	ug/L
11104-28-2	Aroclor-1221	0.41	U	0.23	0.41	0.51	ug/L
11141-16-5	Aroclor-1232	0.41	U	0.38	0.41	0.51	ug/L
53469-21-9	Aroclor-1242	0.41	U	0.16	0.41	0.51	ug/L
12672-29-6	Aroclor-1248	0.41	U	0.12	0.41	0.51	ug/L
11097-69-1	Aroclor-1254	0.41	U	0.11	0.41	0.51	ug/L
37324-23-5	Aroclor-1262	0.41	U	0.14	0.41	0.51	ug/L
11100-14-4	Aroclor-1268	0.41	U	0.12	0.41	0.51	ug/L
11096-82-5	Aroclor-1260	0.41	U	0.15	0.41	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.4		35 - 137		97%	SPK: 20
2051-24-3	Decachlorobiphenyl	6.81	*	40 - 135		34%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-067-IDWGW-20241024RE	SDG No.:	P4549
Lab Sample ID:	P4549-02RE	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107430.D	1	10/25/24 09:10	10/28/24 14:04	PB164403

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.41	U	0.15	0.41	0.51	ug/L
11104-28-2	Aroclor-1221	0.41	U	0.23	0.41	0.51	ug/L
11141-16-5	Aroclor-1232	0.41	U	0.38	0.41	0.51	ug/L
53469-21-9	Aroclor-1242	0.41	U	0.16	0.41	0.51	ug/L
12672-29-6	Aroclor-1248	0.41	U	0.12	0.41	0.51	ug/L
11097-69-1	Aroclor-1254	0.41	U	0.11	0.41	0.51	ug/L
37324-23-5	Aroclor-1262	0.41	U	0.14	0.41	0.51	ug/L
11100-14-4	Aroclor-1268	0.41	U	0.12	0.41	0.51	ug/L
11096-82-5	Aroclor-1260	0.41	U	0.15	0.41	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.7		35 - 137		98%	SPK: 20
2051-24-3	Decachlorobiphenyl	7.75	*	40 - 135		39%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-068-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-03	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107408.D	1	10/25/24 09:10	10/26/24 00:07	PB164403

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.41	U	0.15	0.41	0.52	ug/L
11104-28-2	Aroclor-1221	0.41	U	0.24	0.41	0.52	ug/L
11141-16-5	Aroclor-1232	0.41	U	0.38	0.41	0.52	ug/L
53469-21-9	Aroclor-1242	0.41	U	0.16	0.41	0.52	ug/L
12672-29-6	Aroclor-1248	0.41	U	0.12	0.41	0.52	ug/L
11097-69-1	Aroclor-1254	0.41	U	0.11	0.41	0.52	ug/L
37324-23-5	Aroclor-1262	0.41	U	0.14	0.41	0.52	ug/L
11100-14-4	Aroclor-1268	0.41	U	0.12	0.41	0.52	ug/L
11096-82-5	Aroclor-1260	0.41	U	0.15	0.41	0.52	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.4		35 - 137		92%	SPK: 20
2051-24-3	Decachlorobiphenyl	5.86	*	40 - 135		29%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-068-IDWGW-20241024RE	SDG No.:	P4549
Lab Sample ID:	P4549-03RE	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107431.D	1	10/25/24 09:10	10/28/24 14:22	PB164403

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.41	U	0.15	0.41	0.52	ug/L
11104-28-2	Aroclor-1221	0.41	U	0.24	0.41	0.52	ug/L
11141-16-5	Aroclor-1232	0.41	U	0.38	0.41	0.52	ug/L
53469-21-9	Aroclor-1242	0.41	U	0.16	0.41	0.52	ug/L
12672-29-6	Aroclor-1248	0.41	U	0.12	0.41	0.52	ug/L
11097-69-1	Aroclor-1254	0.41	U	0.11	0.41	0.52	ug/L
37324-23-5	Aroclor-1262	0.41	U	0.14	0.41	0.52	ug/L
11100-14-4	Aroclor-1268	0.41	U	0.12	0.41	0.52	ug/L
11096-82-5	Aroclor-1260	0.41	U	0.15	0.41	0.52	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	17.9		35 - 137		90%	SPK: 20
2051-24-3	Decachlorobiphenyl	6.58	*	40 - 135		33%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-069-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-04	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	990 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107393.D	1	10/25/24 09:10	10/25/24 19:08	PB164403

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.51	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.51	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.51	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.51	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.51	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.51	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.51	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.51	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.2		35 - 137		96%	SPK: 20
2051-24-3	Decachlorobiphenyl	6.05	*	40 - 135		30%	SPK: 20

Comments:

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

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-069-IDWGW-20241024RE	SDG No.:	P4549
Lab Sample ID:	P4549-04RE	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	990 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107432.D	1	10/25/24 09:10	10/28/24 14:40	PB164403

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.51	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.51	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.51	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.51	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.51	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.51	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.51	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.51	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.51	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.8		35 - 137		94%	SPK: 20
2051-24-3	Decachlorobiphenyl	6.75	*	40 - 135		34%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

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Surrogate Summary

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PO107183.D	PIBLK-PO107183.D	Tetrachloro-m-xylene	1	20	22.5	112		60	140
		Decachlorobiphenyl	1	20	23.4	117		60	140
		Tetrachloro-m-xylene	2	20	22.1	110		60	140
		Decachlorobiphenyl	2	20	22.8	114		60	140
I.BLK-PO107386.D	PIBLK-PO107386.D	Tetrachloro-m-xylene	1	20	22.3	112		60	140
		Decachlorobiphenyl	1	20	22.6	113		60	140
		Tetrachloro-m-xylene	2	20	22.0	110		60	140
		Decachlorobiphenyl	2	20	22.8	114		60	140
P4549-04	TT-069-IDWGW-20241024	Tetrachloro-m-xylene	1	20	17.2	86		35	137
		Decachlorobiphenyl	1	20	6.05	30	*	40	135
		Tetrachloro-m-xylene	2	20	19.2	96		35	137
		Decachlorobiphenyl	2	20	5.68	28	*	40	135
PB164403BS	PB164403BS	Tetrachloro-m-xylene	1	20	20.7	104		35	137
		Decachlorobiphenyl	1	20	21.0	105		40	135
		Tetrachloro-m-xylene	2	20	20.4	102		35	137
		Decachlorobiphenyl	2	20	18.8	94		40	135
PB164403BSD	PB164403BSD	Tetrachloro-m-xylene	1	20	21.5	108		35	137
		Decachlorobiphenyl	1	20	21.1	105		40	135
		Tetrachloro-m-xylene	2	20	20.5	103		35	137
		Decachlorobiphenyl	2	20	19.4	97		40	135
I.BLK-PO107401.D	PIBLK-PO107401.D	Tetrachloro-m-xylene	1	20	22.1	111		60	140
		Decachlorobiphenyl	1	20	21.2	106		60	140
		Tetrachloro-m-xylene	2	20	22.0	110		60	140
		Decachlorobiphenyl	2	20	20.2	101		60	140
P4549-02	TT-067-IDWGW-20241024	Tetrachloro-m-xylene	1	20	18.7	93		35	137
		Decachlorobiphenyl	1	20	6.81	34	*	40	135
		Tetrachloro-m-xylene	2	20	19.4	97		35	137
		Decachlorobiphenyl	2	20	6.39	32	*	40	135
P4549-03	TT-068-IDWGW-20241024	Tetrachloro-m-xylene	1	20	17.9	89		35	137
		Decachlorobiphenyl	1	20	5.86	29	*	40	135
		Tetrachloro-m-xylene	2	20	18.4	92		35	137
		Decachlorobiphenyl	2	20	5.62	28	*	40	135
I.BLK-PO107413.D	PIBLK-PO107413.D	Tetrachloro-m-xylene	1	20	21.6	108		60	140
		Decachlorobiphenyl	1	20	21.4	107		60	140
		Tetrachloro-m-xylene	2	20	22.0	110		60	140
		Decachlorobiphenyl	2	20	20.4	102		60	140
I.BLK-PO107424.D	PIBLK-PO107424.D	Tetrachloro-m-xylene	1	20	19.3	96		60	140
		Decachlorobiphenyl	1	20	20.2	101		60	140
		Tetrachloro-m-xylene	2	20	19.6	98		60	140
		Decachlorobiphenyl	2	20	19.6	98		60	140
PB164403BL	PB164403BL	Tetrachloro-m-xylene	1	20	19.6	98		35	137

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Surrogate Summary

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
PB164403BL	PB164403BL	Decachlorobiphenyl	1	20	22.5	113		40	135
		Tetrachloro-m-xylene	2	20	20.6	103		35	137
		Decachlorobiphenyl	2	20	22.6	113		40	135
P4549-02RE	TT-067-IDWGW-20241024RE	Tetrachloro-m-xylene	1	20	18.7	94		35	137
		Decachlorobiphenyl	1	20	7.75	39	*	40	135
		Tetrachloro-m-xylene	2	20	19.7	98		35	137
		Decachlorobiphenyl	2	20	7.36	37	*	40	135
P4549-03RE	TT-068-IDWGW-20241024RE	Tetrachloro-m-xylene	1	20	17.5	87		35	137
		Decachlorobiphenyl	1	20	6.58	33	*	40	135
		Tetrachloro-m-xylene	2	20	17.9	90		35	137
		Decachlorobiphenyl	2	20	6.42	32	*	40	135
P4549-04RE	TT-069-IDWGW-20241024RE	Tetrachloro-m-xylene	1	20	18.0	90		35	137
		Decachlorobiphenyl	1	20	6.75	34	*	40	135
		Tetrachloro-m-xylene	2	20	18.8	94		35	137
		Decachlorobiphenyl	2	20	6.42	32	*	40	135
I.BLK-PO107440.D	PIBLK-PO107440.D	Tetrachloro-m-xylene	1	20	19.9	100		60	140
		Decachlorobiphenyl	1	20	20.5	103		60	140
		Tetrachloro-m-xylene	2	20	20.5	103		60	140
		Decachlorobiphenyl	2	20	20.4	102		60	140

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A **Datafile :** PO107395.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164403BS	AR1016	5	4.70	ug/L	94				46	129	
	AR1260	5	4.40	ug/L	88				45	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4549

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A **Datafile :** PO107396.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164403BSD	AR1016	5	4.80	ug/L	96	2			46	129	20
	AR1260	5	4.40	ug/L	88	0			45	134	20

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164403BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4549 SAS No.: P4549 SDG NO.: P4549

Lab Sample ID: PB164403BL Lab File ID: PO107429.D

Matrix: (soil/water) WATER Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 10/25/2024

Date Analyzed (1): 10/28/2024 Date Analyzed (2): 10/28/2024

Time Analyzed (1): 13:46 Time Analyzed (2): 13:46

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
TT-069-IDWGW-20241024	P4549-04	PO107393.D	10/25/2024	10/25/2024
PB164403BS	PB164403BS	PO107395.D	10/25/2024	10/25/2024
PB164403BSD	PB164403BSD	PO107396.D	10/25/2024	10/25/2024
TT-067-IDWGW-20241024	P4549-02	PO107407.D	10/25/2024	10/25/2024
TT-068-IDWGW-20241024	P4549-03	PO107408.D	10/26/2024	10/26/2024

COMMENTS:

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO107184.D RT 750 = PO107185.D

RT 500 = PO107186.D RT 250 = PO107187.D RT 050 = PO107188.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1016-2	(2)	5.54	5.55	5.55	5.54	5.54	5.54	5.44	5.64
Aroclor-1016-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1016-4	(4)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1016-5	(5)	6.00	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1260-1	(1)	7.12	7.13	7.13	7.12	7.13	7.13	7.03	7.23
Aroclor-1260-2	(2)	7.38	7.38	7.38	7.38	7.38	7.38	7.28	7.48
Aroclor-1260-3	(3)	7.74	7.74	7.74	7.74	7.74	7.74	7.64	7.84
Aroclor-1260-4	(4)	7.97	7.97	7.97	7.97	7.97	7.97	7.87	8.07
Aroclor-1260-5	(5)	8.28	8.28	8.28	8.28	8.28	8.28	8.18	8.38
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1242-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1242-2	(2)	5.55	5.54	5.54	5.54	5.54	5.54	5.44	5.64
Aroclor-1242-3	(3)	5.61	5.61	5.61	5.61	5.61	5.61	5.51	5.71
Aroclor-1242-4	(4)	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Aroclor-1242-5	(5)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1248-1	(1)	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Aroclor-1248-2	(2)	5.80	5.80	5.80	5.80	5.80	5.80	5.70	5.90
Aroclor-1248-3	(3)	6.00	6.00	6.00	6.00	6.00	6.00	5.90	6.10
Aroclor-1248-4	(4)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1248-5	(5)	6.44	6.44	6.44	6.44	6.44	6.44	6.34	6.54
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1254-1	(1)	6.37	6.37	6.38	6.37	6.38	6.37	6.27	6.47
Aroclor-1254-2	(2)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Aroclor-1254-3	(3)	6.96	6.96	6.96	6.96	6.96	6.96	6.86	7.06
Aroclor-1254-4	(4)	7.24	7.24	7.24	7.24	7.24	7.24	7.14	7.34
Aroclor-1254-5	(5)	7.66	7.66	7.66	7.66	7.66	7.66	7.56	7.76
Decachlorobiphenyl		10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene		4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47
Aroclor-1268-1	(1)	8.59	8.59	8.59	8.59	8.59	8.59	8.49	8.69
Aroclor-1268-2	(2)	8.68	8.68	8.68	8.68	8.68	8.68	8.58	8.78
Aroclor-1268-3	(3)	8.91	8.91	8.91	8.91	8.91	8.91	8.81	9.01
Aroclor-1268-4	(4)	9.31	9.31	9.31	9.31	9.31	9.31	9.21	9.41
Aroclor-1268-5	(5)	9.72	9.72	9.72	9.72	9.72	9.72	9.62	9.82

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	10.06	10.06	10.06	10.06	10.06	10.06	9.96	10.16
Tetrachloro-m-xylene	4.37	4.37	4.37	4.37	4.37	4.37	4.27	4.47

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO107184.D RT 750 = PO107185.D

RT 500 = PO107186.D RT 250 = PO107187.D RT 050 = PO107188.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1016-2	(2)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1016-3	(3)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1016-4	(4)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1016-5	(5)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1260-1	(1)	6.21	6.21	6.21	6.21	6.21	6.21	6.11	6.31
Aroclor-1260-2	(2)	6.39	6.39	6.39	6.39	6.40	6.39	6.29	6.49
Aroclor-1260-3	(3)	6.55	6.55	6.55	6.55	6.55	6.55	6.45	6.65
Aroclor-1260-4	(4)	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aroclor-1260-5	(5)	7.26	7.26	7.26	7.26	7.26	7.26	7.16	7.36
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.65	3.64	3.64	3.64	3.54	3.74
Aroclor-1242-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1242-2	(2)	4.75	4.75	4.75	4.75	4.75	4.75	4.65	4.85
Aroclor-1242-3	(3)	4.92	4.92	4.92	4.92	4.92	4.92	4.82	5.02
Aroclor-1242-4	(4)	5.00	5.01	5.00	5.01	5.00	5.00	4.90	5.10
Aroclor-1242-5	(5)	5.53	5.53	5.53	5.53	5.53	5.53	5.43	5.63
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.65	3.64	3.64	3.54	3.74
Aroclor-1248-1	(1)	4.73	4.73	4.73	4.73	4.73	4.73	4.63	4.83
Aroclor-1248-2	(2)	4.96	4.96	4.96	4.96	4.96	4.96	4.86	5.06
Aroclor-1248-3	(3)	5.00	5.00	5.00	5.00	5.00	5.00	4.90	5.10
Aroclor-1248-4	(4)	5.18	5.18	5.18	5.18	5.18	5.18	5.08	5.28
Aroclor-1248-5	(5)	5.57	5.57	5.57	5.57	5.57	5.57	5.47	5.67
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.64	3.64	3.64	3.64	3.64	3.64	3.54	3.74
Aroclor-1254-1	(1)	5.53	5.53	5.53	5.53	5.53	5.53	5.43	5.63
Aroclor-1254-2	(2)	5.67	5.67	5.67	5.67	5.67	5.67	5.57	5.77
Aroclor-1254-3	(3)	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Aroclor-1254-4	(4)	6.30	6.30	6.30	6.31	6.30	6.30	6.20	6.40
Aroclor-1254-5	(5)	6.72	6.72	6.72	6.72	6.72	6.72	6.62	6.82
Decachlorobiphenyl		8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene		3.65	3.64	3.64	3.64	3.65	3.64	3.54	3.74
Aroclor-1268-1	(1)	7.54	7.54	7.54	7.54	7.54	7.54	7.44	7.64
Aroclor-1268-2	(2)	7.61	7.61	7.61	7.61	7.61	7.61	7.51	7.71
Aroclor-1268-3	(3)	7.81	7.81	7.81	7.81	7.81	7.81	7.71	7.91
Aroclor-1268-4	(4)	8.10	8.10	8.10	8.10	8.10	8.10	8.00	8.20
Aroclor-1268-5	(5)	8.39	8.39	8.39	8.39	8.39	8.39	8.29	8.49

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.64	8.64	8.64	8.64	8.64	8.64	8.54	8.74
Tetrachloro-m-xylene	3.65	3.64	3.65	3.64	3.65	3.65	3.55	3.75

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PO107184.D **CF 750 =** PO107185.D

CF 500 = PO107186.D **CF 250 =** PO107187.D **CF 050 =** PO107188.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	252081604	261702867	271939076	291118488	272229420	269814291	5
Aroclor-1016-2	(2)	373760062	383028583	397887352	419075308	410673320	396884925	5
Aroclor-1016-3	(3)	234678633	244145249	256575754	276405664	244042480	251169556	6
Aroclor-1016-4	(4)	185622493	193848624	202963902	215081552	165543020	192611918	10
Aroclor-1016-5	(5)	176326470	182141932	191487930	203514892	159796500	182653545	9
Aroclor-1260-1	(1)	238480871	246497651	259155974	277220676	271587560	258588546	6
Aroclor-1260-2	(2)	243402558	251747185	264083512	284216460	272650860	263220115	6
Aroclor-1260-3	(3)	167353086	171560129	181491762	195138068	183182660	179745141	6
Aroclor-1260-4	(4)	162125557	166999933	175289716	187582032	185522120	175503872	6
Aroclor-1260-5	(5)	268686175	273623828	283035894	299271412	297351500	284393762	5
Decachlorobiphenyl		2362750210	2427138920	2496479000	2603827440	2376686800	2453376474	4
Tetrachloro-m-xylene		8902656430	9087809293	9285762860	9548006280	8745262400	9113899453	3
Aroclor-1242-1	(1)	207947063	205572916	222208808	238956456	243522880	223641625	8
Aroclor-1242-2	(2)	302439626	299949616	323550412	342804408	348858880	323520588	7
Aroclor-1242-3	(3)	191912697	193178427	209638152	224306728	225847640	208976729	8
Aroclor-1242-4	(4)	150447174	145338196	162797508	173135964	168308740	160005516	7
Aroclor-1242-5	(5)	141009343	143408436	153689098	164623016	179679780	156481935	10
Decachlorobiphenyl		2339420350	2427742867	2492700840	2551827400	2426410200	2447620331	3
Tetrachloro-m-xylene		8860043620	8651743680	9146784160	9504075440	9174828800	9067495140	4
Aroclor-1248-1	(1)	155913014	164800668	175191332	184609772	188867720	173876501	8
Aroclor-1248-2	(2)	222845576	238202488	253637968	270074056	280366620	253025342	9
Aroclor-1248-3	(3)	231904923	246233752	259706092	274388212	266197800	255686156	7
Aroclor-1248-4	(4)	237210289	246633865	260533272	272872732	271860120	257822056	6
Aroclor-1248-5	(5)	236273499	246591072	260733536	276314120	280304600	260043365	7
Decachlorobiphenyl		2339780580	2371533013	2504089680	2566158680	2396701200	2435652631	4
Tetrachloro-m-xylene		8719403610	9119992693	9358904180	9492784200	8995773400	9137371617	3
Aroclor-1254-1	(1)	246822697	256579683	264992242	286189960	289157060	268748328	7
Aroclor-1254-2	(2)	348120894	361641555	373031238	401237980	402995760	377405485	6
Aroclor-1254-3	(3)	336293322	345653409	355909306	378498460	372630440	357796987	5
Aroclor-1254-4	(4)	213138598	220171503	227187688	242530220	244046960	229414994	6
Aroclor-1254-5	(5)	194609638	201069208	205869028	220139672	216546640	207646837	5
Decachlorobiphenyl		2357746210	2401897693	2508594000	2601578200	2359367400	2445836701	4
Tetrachloro-m-xylene		8883763230	9164627320	9184369060	9508828480	8791509400	9106619498	3
Aroclor-1268-1	(1)	351862425	352413819	364622844	381760528	369380480	364008019	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	313096403	314491445	324862806	339637696	320299560	322477582	3
Aroclor-1268-3	(3)	272236453	272760276	282620036	293538700	275661940	279363481	3
Aroclor-1268-4	(4)	112236308	111261111	114714594	116428084	101458340	111219687	5
Aroclor-1268-5	(5)	836674479	833098204	847063314	864357444	781067560	832452200	4
Decachlorobiphenyl		4074190590	4136234160	4241958160	4399826360	4004084600	4171258774	4
Tetrachloro-m-xylene		9139601460	8935957933	9311606620	9495189880	8951901000	9166851379	3

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Instrument ID: ECD_O **Calibration Date(s):** 10/15/2024 10/16/2024

Calibration Times: 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PO107184.D **CF 750 =** PO107185.D

CF 500 = PO107186.D **CF 250 =** PO107187.D **CF 050 =** PO107188.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	98519363	99934743	102532802	106601384	108740020	103265662	4
Aroclor-1016-2	(2)	140533795	142751421	144315942	146877552	130360060	140967754	5
Aroclor-1016-3	(3)	75819146	77111448	78799028	81783348	80215260	78745646	3
Aroclor-1016-4	(4)	61532960	63413097	65607722	69564368	70423600	66108349	6
Aroclor-1016-5	(5)	78878086	80970861	83522668	86940988	80356660	82133853	4
Aroclor-1260-1	(1)	150450531	152030172	155131756	161942364	156218200	155154605	3
Aroclor-1260-2	(2)	173752920	181526657	184104290	189736236	151457920	176115605	8
Aroclor-1260-3	(3)	168454604	170292340	172108108	175991544	151894120	167748143	6
Aroclor-1260-4	(4)	143637024	144895129	147115166	150514212	137242140	144680734	3
Aroclor-1260-5	(5)	340738400	339782780	336796716	340391952	289493480	329440666	7
Decachlorobiphenyl		2730622670	2745732653	2784792900	2852828640	2594005000	2741596373	3
Tetrachloro-m-xylene		3312014480	3338472613	3349065240	3230716080	2862214000	3218496483	6
Aroclor-1242-1	(1)	80390662	80447493	83937762	87266896	86674240	83743411	4
Aroclor-1242-2	(2)	114487494	111266404	117741916	120667112	114031640	115638913	3
Aroclor-1242-3	(3)	61817452	60461905	64396992	66865868	63624080	63433259	4
Aroclor-1242-4	(4)	60582529	60636219	64384594	68045260	66598220	64049364	5
Aroclor-1242-5	(5)	73763103	75675432	77215916	80736528	80226620	77523520	4
Decachlorobiphenyl		2686985320	2764418280	2764436780	2798541920	2665265400	2735929540	2
Tetrachloro-m-xylene		3315724680	3241948653	3341198040	3335574400	2920075400	3230904235	6
Aroclor-1248-1	(1)	60218805	63038185	64879120	66667236	62402400	63441149	4
Aroclor-1248-2	(2)	85173308	89108361	93061950	96541480	93540340	91485088	5
Aroclor-1248-3	(3)	89257070	93226611	97377878	100891904	96212540	95393201	5
Aroclor-1248-4	(4)	105934439	110533117	114760412	117772688	111691080	112138347	4
Aroclor-1248-5	(5)	102828085	105359652	109801380	114217964	119140640	110269544	6
Decachlorobiphenyl		2669365810	2682497173	2791873700	2836714480	2679938000	2732077833	3
Tetrachloro-m-xylene		3278417600	3389239440	3425836480	3362184040	2965722400	3284279992	6
Aroclor-1254-1	(1)	159855276	163854537	165548332	171717704	162964860	164788142	3
Aroclor-1254-2	(2)	138468840	142269335	144546922	151325972	148203140	144962842	3
Aroclor-1254-3	(3)	227061110	231385951	232213406	238575248	218867080	229620559	3
Aroclor-1254-4	(4)	128242906	130249965	131325350	135207044	122091880	129423429	4
Aroclor-1254-5	(5)	191904554	195153152	195378104	201188864	171636600	191052255	6
Decachlorobiphenyl		2726927150	2738190720	2773447120	2836815760	2598739800	2734824110	3
Tetrachloro-m-xylene		3347799560	3397335627	3354246660	3362236280	2930639600	3278451545	6
Aroclor-1268-1	(1)	419191400	409991492	413863584	410849472	368955300	404570250	5

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	389672996	380096764	383518208	378699872	334345600	373266688	6
Aroclor-1268-3	(3)	345284332	337828173	339535756	338755760	307004380	333681680	5
Aroclor-1268-4	(4)	129107993	127445005	127285362	129260796	113749480	125369727	5
Aroclor-1268-5	(5)	1049237500	1019311260	1017080130	996315476	856840280	987756929	8
Decachlorobiphenyl		4873889790	4739451973	4823511780	4890043960	4430545400	4751488581	4
Tetrachloro-m-xylene		3440286630	3329771373	3416104800	3331345720	2963806400	3296262985	6

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Instrument ID: ECD_O **Date(s) Analyzed:** 10/15/2024 10/16/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	4.57	4.47	4.67	110010000
		2	4.66	4.56	4.76	78836600
		3	4.73	4.63	4.83	234100000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.73	4.63	4.83	195844000
		2	5.26	5.16	5.36	103025000
		3	5.54	5.44	5.64	179001000
		4	5.70	5.60	5.80	90165400
		5	5.80	5.70	5.90	65903200
Aroclor-1262	500	1	7.74	7.64	7.84	245548000
		2	8.28	8.18	8.38	309420000
		3	8.59	8.49	8.69	209196000
		4	8.68	8.58	8.78	163066000
		5	9.32	9.22	9.42	102764000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Instrument ID: ECD_O **Date(s) Analyzed:** 10/15/2024 10/16/2024

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	500	1	3.86	3.76	3.96	34895600
		2	3.94	3.84	4.04	26624800
		3	4.02	3.92	4.12	81218600
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.02	3.92	4.12	67327000
		2	4.75	4.65	4.85	63205200
		3	4.92	4.82	5.02	34475000
		4	5.00	4.90	5.10	31466000
		5	5.18	5.08	5.28	33083400
Aroclor-1262	500	1	6.76	6.66	6.86	212876000
		2	7.26	7.16	7.36	363332000
		3	7.54	7.44	7.64	137384000
		4	7.61	7.51	7.71	264574000
		5	8.10	8.00	8.20	112833000

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/25/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 15:49 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/25/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 15:49 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.73	4.73	4.63	4.83	0.00
Aroclor-1016-2	(2)	4.75	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.18	5.18	5.08	5.28	0.00
Aroclor-1260-1	(1)	6.21	6.21	6.11	6.31	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.65	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/25/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107382.D **Time Analyzed:** 15:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.522	5.423	5.623	541.940	500.000	8.4
Aroclor-1016-2	5.544	5.445	5.645	534.490	500.000	6.9
Aroclor-1016-3	5.606	5.507	5.707	524.670	500.000	4.9
Aroclor-1016-4	5.704	5.604	5.804	550.740	500.000	10.1
Aroclor-1016-5	5.998	5.899	6.099	549.630	500.000	9.9
Aroclor-1260-1	7.125	7.026	7.226	524.670	500.000	4.9
Aroclor-1260-2	7.382	7.282	7.482	536.310	500.000	7.3
Aroclor-1260-3	7.743	7.643	7.843	515.030	500.000	3.0
Aroclor-1260-4	7.968	7.868	8.068	522.860	500.000	4.6
Aroclor-1260-5	8.281	8.181	8.381	527.620	500.000	5.5
Decachlorobiphenyl	10.061	9.958	10.158	52.130	50.000	4.3
Tetrachloro-m-xylene	4.373	4.274	4.474	55.320	50.000	10.6

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL01 **Date Analyzed:** 10/25/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107382.D **Time Analyzed:** 15:49

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.726	4.626	4.826	553.460	500.000	10.7
Aroclor-1016-2	4.745	4.645	4.845	567.100	500.000	13.4
Aroclor-1016-3	4.921	4.821	5.021	533.360	500.000	6.7
Aroclor-1016-4	4.962	4.862	5.062	510.120	500.000	2.0
Aroclor-1016-5	5.175	5.076	5.276	544.660	500.000	8.9
Aroclor-1260-1	6.206	6.107	6.307	548.980	500.000	9.8
Aroclor-1260-2	6.393	6.294	6.494	584.550	500.000	16.9
Aroclor-1260-3	6.547	6.448	6.648	558.400	500.000	11.7
Aroclor-1260-4	7.017	6.918	7.118	558.220	500.000	11.6
Aroclor-1260-5	7.257	7.159	7.359	591.990	500.000	18.4
Decachlorobiphenyl	8.638	8.539	8.739	53.990	50.000	8.0
Tetrachloro-m-xylene	3.645	3.545	3.745	55.010	50.000	10.0

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/25/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 20:48 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/25/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 20:48 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.73	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.18	5.18	5.08	5.28	0.00
Aroclor-1260-1	(1)	6.21	6.21	6.11	6.31	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/25/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107397.D **Time Analyzed:** 20:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.521	5.423	5.623	494.170	500.000	-1.2
Aroclor-1016-2	5.543	5.445	5.645	479.380	500.000	-4.1
Aroclor-1016-3	5.606	5.507	5.707	461.860	500.000	-7.6
Aroclor-1016-4	5.703	5.604	5.804	477.250	500.000	-4.6
Aroclor-1016-5	5.998	5.899	6.099	475.790	500.000	-4.8
Aroclor-1260-1	7.125	7.026	7.226	485.380	500.000	-2.9
Aroclor-1260-2	7.382	7.282	7.482	484.810	500.000	-3.0
Aroclor-1260-3	7.744	7.643	7.843	458.270	500.000	-8.3
Aroclor-1260-4	7.968	7.868	8.068	467.110	500.000	-6.6
Aroclor-1260-5	8.281	8.181	8.381	484.470	500.000	-3.1
Decachlorobiphenyl	10.061	9.958	10.158	50.240	50.000	0.5
Tetrachloro-m-xylene	4.372	4.274	4.474	52.530	50.000	5.1

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL02 **Date Analyzed:** 10/25/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107397.D **Time Analyzed:** 20:48

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.725	4.626	4.826	537.990	500.000	7.6
Aroclor-1016-2	4.744	4.645	4.845	546.030	500.000	9.2
Aroclor-1016-3	4.920	4.821	5.021	516.060	500.000	3.2
Aroclor-1016-4	4.961	4.862	5.062	492.570	500.000	-1.5
Aroclor-1016-5	5.175	5.076	5.276	524.530	500.000	4.9
Aroclor-1260-1	6.206	6.107	6.307	496.750	500.000	-0.7
Aroclor-1260-2	6.393	6.294	6.494	527.570	500.000	5.5
Aroclor-1260-3	6.546	6.448	6.648	500.040	500.000	0.0
Aroclor-1260-4	7.017	6.918	7.118	488.580	500.000	-2.3
Aroclor-1260-5	7.258	7.159	7.359	504.820	500.000	1.0
Decachlorobiphenyl	8.637	8.539	8.739	47.900	50.000	-4.2
Tetrachloro-m-xylene	3.644	3.545	3.745	52.630	50.000	5.3

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/26/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 00:54 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.61	5.61	5.51	5.71	0.00
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.13	7.13	7.03	7.23	0.00
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/26/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 00:54 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.73	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.18	5.18	5.08	5.28	0.00
Aroclor-1260-1	(1)	6.21	6.21	6.11	6.31	0.00
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.55	6.55	6.45	6.65	0.00
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.00
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.64	8.64	8.54	8.74	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/26/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107409.D **Time Analyzed:** 00:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.521	5.423	5.623	496.520	500.000	-0.7
Aroclor-1016-2	5.544	5.445	5.645	485.870	500.000	-2.8
Aroclor-1016-3	5.606	5.507	5.707	472.730	500.000	-5.5
Aroclor-1016-4	5.702	5.604	5.804	493.570	500.000	-1.3
Aroclor-1016-5	5.997	5.899	6.099	497.580	500.000	-0.5
Aroclor-1260-1	7.125	7.026	7.226	465.740	500.000	-6.9
Aroclor-1260-2	7.381	7.282	7.482	492.130	500.000	-1.6
Aroclor-1260-3	7.743	7.643	7.843	486.130	500.000	-2.8
Aroclor-1260-4	7.967	7.868	8.068	492.230	500.000	-1.6
Aroclor-1260-5	8.280	8.181	8.381	496.360	500.000	-0.7
Decachlorobiphenyl	10.060	9.958	10.158	46.720	50.000	-6.6
Tetrachloro-m-xylene	4.372	4.274	4.474	50.430	50.000	0.9

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL03 **Date Analyzed:** 10/26/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107409.D **Time Analyzed:** 00:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.725	4.626	4.826	527.800	500.000	5.6
Aroclor-1016-2	4.744	4.645	4.845	528.560	500.000	5.7
Aroclor-1016-3	4.920	4.821	5.021	503.880	500.000	0.8
Aroclor-1016-4	4.962	4.862	5.062	478.610	500.000	-4.3
Aroclor-1016-5	5.175	5.076	5.276	507.540	500.000	1.5
Aroclor-1260-1	6.206	6.107	6.307	518.160	500.000	3.6
Aroclor-1260-2	6.393	6.294	6.494	532.900	500.000	6.6
Aroclor-1260-3	6.547	6.448	6.648	524.730	500.000	4.9
Aroclor-1260-4	7.017	6.918	7.118	533.380	500.000	6.7
Aroclor-1260-5	7.259	7.159	7.359	554.010	500.000	10.8
Decachlorobiphenyl	8.638	8.539	8.739	46.430	50.000	-7.1
Tetrachloro-m-xylene	3.644	3.545	3.745	51.580	50.000	3.2

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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 11:22 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.60	5.61	5.51	5.71	0.01
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.05	10.06	9.96	10.16	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 11:22 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.55	6.45	6.65	0.01
Aroclor-1260-4	(4)	7.02	7.02	6.92	7.12	0.01
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/28/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107421.D **Time Analyzed:** 11:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.519	5.423	5.623	467.400	500.000	-6.5
Aroclor-1016-2	5.542	5.445	5.645	458.050	500.000	-8.4
Aroclor-1016-3	5.604	5.507	5.707	455.130	500.000	-9.0
Aroclor-1016-4	5.701	5.604	5.804	473.820	500.000	-5.2
Aroclor-1016-5	5.996	5.899	6.099	478.100	500.000	-4.4
Aroclor-1260-1	7.124	7.026	7.226	463.460	500.000	-7.3
Aroclor-1260-2	7.379	7.282	7.482	471.410	500.000	-5.7
Aroclor-1260-3	7.741	7.643	7.843	454.480	500.000	-9.1
Aroclor-1260-4	7.965	7.868	8.068	438.720	500.000	-12.3
Aroclor-1260-5	8.278	8.181	8.381	474.790	500.000	-5.0
Decachlorobiphenyl	10.054	9.958	10.158	46.260	50.000	-7.5
Tetrachloro-m-xylene	4.371	4.274	4.474	47.030	50.000	-5.9

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL04 **Date Analyzed:** 10/28/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107421.D **Time Analyzed:** 11:22

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.724	4.626	4.826	512.280	500.000	2.5
Aroclor-1016-2	4.743	4.645	4.845	516.410	500.000	3.3
Aroclor-1016-3	4.919	4.821	5.021	495.570	500.000	-0.9
Aroclor-1016-4	4.960	4.862	5.062	477.890	500.000	-4.4
Aroclor-1016-5	5.173	5.076	5.276	501.090	500.000	0.2
Aroclor-1260-1	6.204	6.107	6.307	494.270	500.000	-1.1
Aroclor-1260-2	6.391	6.294	6.494	526.580	500.000	5.3
Aroclor-1260-3	6.544	6.448	6.648	502.020	500.000	0.4
Aroclor-1260-4	7.015	6.918	7.118	495.390	500.000	-0.9
Aroclor-1260-5	7.255	7.159	7.359	527.980	500.000	5.6
Decachlorobiphenyl	8.634	8.539	8.739	47.340	50.000	-5.3
Tetrachloro-m-xylene	3.643	3.545	3.745	49.980	50.000	0.0

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 16:10 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	5.52	5.52	5.42	5.62	0.00
Aroclor-1016-2	(2)	5.54	5.55	5.45	5.65	0.01
Aroclor-1016-3	(3)	5.60	5.61	5.51	5.71	0.01
Aroclor-1016-4	(4)	5.70	5.70	5.60	5.80	0.00
Aroclor-1016-5	(5)	6.00	6.00	5.90	6.10	0.00
Aroclor-1260-1	(1)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-2	(2)	7.38	7.38	7.28	7.48	0.00
Aroclor-1260-3	(3)	7.74	7.74	7.64	7.84	0.00
Aroclor-1260-4	(4)	7.97	7.97	7.87	8.07	0.00
Aroclor-1260-5	(5)	8.28	8.28	8.18	8.38	0.00
Tetrachloro-m-xylene		4.37	4.37	4.27	4.47	0.00
Decachlorobiphenyl		10.06	10.06	9.96	10.16	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

Continuing Calib Date: 10/28/2024 **Initial Calibration Date(s):** 10/15/2024 10/16/2024

Continuing Calib Time: 16:10 **Initial Calibration Time(s):** 18:27 02:36

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.72	4.73	4.63	4.83	0.01
Aroclor-1016-2	(2)	4.74	4.75	4.65	4.85	0.01
Aroclor-1016-3	(3)	4.92	4.92	4.82	5.02	0.00
Aroclor-1016-4	(4)	4.96	4.96	4.86	5.06	0.00
Aroclor-1016-5	(5)	5.17	5.18	5.08	5.28	0.01
Aroclor-1260-1	(1)	6.20	6.21	6.11	6.31	0.01
Aroclor-1260-2	(2)	6.39	6.39	6.29	6.49	0.00
Aroclor-1260-3	(3)	6.54	6.55	6.45	6.65	0.01
Aroclor-1260-4	(4)	7.01	7.02	6.92	7.12	0.01
Aroclor-1260-5	(5)	7.26	7.26	7.16	7.36	0.00
Tetrachloro-m-xylene		3.64	3.65	3.55	3.75	0.01
Decachlorobiphenyl		8.63	8.64	8.54	8.74	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL05 **Date Analyzed:** 10/28/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107435.D **Time Analyzed:** 16:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	5.519	5.423	5.623	480.930	500.000	-3.8
Aroclor-1016-2	5.542	5.445	5.645	469.040	500.000	-6.2
Aroclor-1016-3	5.604	5.507	5.707	469.220	500.000	-6.2
Aroclor-1016-4	5.701	5.604	5.804	488.600	500.000	-2.3
Aroclor-1016-5	5.996	5.899	6.099	484.120	500.000	-3.2
Aroclor-1260-1	7.123	7.026	7.226	459.280	500.000	-8.1
Aroclor-1260-2	7.379	7.282	7.482	476.130	500.000	-4.8
Aroclor-1260-3	7.741	7.643	7.843	470.430	500.000	-5.9
Aroclor-1260-4	7.965	7.868	8.068	465.450	500.000	-6.9
Aroclor-1260-5	8.277	8.181	8.381	480.940	500.000	-3.8
Decachlorobiphenyl	10.055	9.958	10.158	47.620	50.000	-4.8
Tetrachloro-m-xylene	4.371	4.274	4.474	47.610	50.000	-4.8

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P4549 **SAS No.:** P4549 **SDG NO.:** P4549

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/15/2024 10/15/2024

Client Sample No.: CCAL05 **Date Analyzed:** 10/28/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO107435.D **Time Analyzed:** 16:10

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.724	4.626	4.826	523.860	500.000	4.8
Aroclor-1016-2	4.743	4.645	4.845	530.430	500.000	6.1
Aroclor-1016-3	4.919	4.821	5.021	508.190	500.000	1.6
Aroclor-1016-4	4.960	4.862	5.062	491.260	500.000	-1.7
Aroclor-1016-5	5.173	5.076	5.276	531.290	500.000	6.3
Aroclor-1260-1	6.204	6.107	6.307	493.890	500.000	-1.2
Aroclor-1260-2	6.390	6.294	6.494	525.730	500.000	5.1
Aroclor-1260-3	6.544	6.448	6.648	507.540	500.000	1.5
Aroclor-1260-4	7.014	6.918	7.118	492.640	500.000	-1.5
Aroclor-1260-5	7.255	7.159	7.359	527.570	500.000	5.5
Decachlorobiphenyl	8.634	8.539	8.739	48.670	50.000	-2.7
Tetrachloro-m-xylene	3.643	3.545	3.745	51.710	50.000	3.4

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

Analytical Sequence

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Project: CTO WE13 **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/15/2024 10/15/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/15/2024	18:08	PO107183.D	10.06	4.37
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	10.06	4.37
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	10.06	4.37
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	10.06	4.37
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	10.06	4.37
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	10.06	4.37
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	10.06	4.37
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	10.06	4.37
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	10.06	4.37
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	10.06	4.37
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	10.06	4.37
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	10.06	4.37
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	10.06	4.37
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	10.06	4.37
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	10.06	4.37
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	10.06	4.37
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	10.06	4.37
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	10.06	4.37
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	10.06	4.37
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	10.06	4.37
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	10.06	4.37
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	10.06	4.37
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	10.06	4.37
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	10.06	4.37
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	10.06	4.37
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	10.06	4.37
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	10.06	4.37
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	10.06	4.37
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/25/2024	15:49	PO107382.D	10.06	4.37
I.BLK	I.BLK	10/25/2024	17:01	PO107386.D	10.06	4.37
TT-069-IDWGW-20241024	P4549-04	10/25/2024	19:08	PO107393.D	10.06	4.37
PB164403BS	PB164403BS	10/25/2024	19:44	PO107395.D	10.06	4.37
PB164403BSD	PB164403BSD	10/25/2024	20:02	PO107396.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/25/2024	20:48	PO107397.D	10.06	4.37
I.BLK	I.BLK	10/25/2024	22:01	PO107401.D	10.06	4.37
TT-067-IDWGW-20241024	P4549-02	10/25/2024	23:49	PO107407.D	10.06	4.37
TT-068-IDWGW-20241024	P4549-03	10/26/2024	00:07	PO107408.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/26/2024	00:54	PO107409.D	10.06	4.37
I.BLK	I.BLK	10/26/2024	02:06	PO107413.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/28/2024	11:22	PO107421.D	10.05	4.37
I.BLK	I.BLK	10/28/2024	12:16	PO107424.D	10.05	4.37

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Analytical Sequence

PB164403BL	PB164403BL	10/28/2024	13:46	PO107429.D	10.07	4.39
TT-067-IDWGW-20241024RE	P4549-02RE	10/28/2024	14:04	PO107430.D	10.06	4.37
TT-068-IDWGW-20241024RE	P4549-03RE	10/28/2024	14:22	PO107431.D	10.06	4.37
TT-069-IDWGW-20241024RE	P4549-04RE	10/28/2024	14:40	PO107432.D	10.06	4.37
AR1660CCC500	AR1660CCC500	10/28/2024	16:10	PO107435.D	10.06	4.37
I.BLK	I.BLK	10/28/2024	17:40	PO107440.D	10.06	4.37

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Analytical Sequence

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Project: CTO WE13 **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 10/15/2024 10/15/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	10/15/2024	18:08	PO107183.D	8.64	3.64
AR1660ICC1000	AR1660ICC1000	10/15/2024	18:27	PO107184.D	8.64	3.64
AR1660ICC750	AR1660ICC750	10/15/2024	18:45	PO107185.D	8.64	3.64
AR1660ICC500	AR1660ICC500	10/15/2024	19:03	PO107186.D	8.64	3.65
AR1660ICC250	AR1660ICC250	10/15/2024	19:21	PO107187.D	8.64	3.64
AR1660ICC050	AR1660ICC050	10/15/2024	19:39	PO107188.D	8.64	3.64
AR1221ICC500	AR1221ICC500	10/15/2024	19:57	PO107189.D	8.64	3.64
AR1232ICC500	AR1232ICC500	10/15/2024	20:15	PO107190.D	8.64	3.64
AR1242ICC1000	AR1242ICC1000	10/15/2024	20:34	PO107191.D	8.64	3.64
AR1242ICC750	AR1242ICC750	10/15/2024	20:52	PO107192.D	8.64	3.64
AR1242ICC500	AR1242ICC500	10/15/2024	21:10	PO107193.D	8.64	3.64
AR1242ICC250	AR1242ICC250	10/15/2024	21:28	PO107194.D	8.64	3.65
AR1242ICC050	AR1242ICC050	10/15/2024	21:46	PO107195.D	8.64	3.64
AR1248ICC1000	AR1248ICC1000	10/15/2024	22:04	PO107196.D	8.64	3.64
AR1248ICC750	AR1248ICC750	10/15/2024	22:22	PO107197.D	8.64	3.64
AR1248ICC500	AR1248ICC500	10/15/2024	22:41	PO107198.D	8.64	3.64
AR1248ICC250	AR1248ICC250	10/15/2024	22:59	PO107199.D	8.64	3.64
AR1248ICC050	AR1248ICC050	10/15/2024	23:17	PO107200.D	8.64	3.64
AR1254ICC1000	AR1254ICC1000	10/15/2024	23:35	PO107201.D	8.64	3.65
AR1254ICC750	AR1254ICC750	10/15/2024	23:53	PO107202.D	8.64	3.64
AR1254ICC500	AR1254ICC500	10/16/2024	00:11	PO107203.D	8.64	3.64
AR1254ICC250	AR1254ICC250	10/16/2024	00:29	PO107204.D	8.64	3.64
AR1254ICC050	AR1254ICC050	10/16/2024	00:47	PO107205.D	8.64	3.65
AR1262ICC500	AR1262ICC500	10/16/2024	01:05	PO107206.D	8.64	3.64
AR1268ICC1000	AR1268ICC1000	10/16/2024	01:23	PO107207.D	8.64	3.65
AR1268ICC750	AR1268ICC750	10/16/2024	01:41	PO107208.D	8.64	3.64
AR1268ICC500	AR1268ICC500	10/16/2024	01:59	PO107209.D	8.64	3.65
AR1268ICC250	AR1268ICC250	10/16/2024	02:18	PO107210.D	8.64	3.64
AR1268ICC050	AR1268ICC050	10/16/2024	02:36	PO107211.D	8.64	3.65
AR1660CCC500	AR1660CCC500	10/25/2024	15:49	PO107382.D	8.64	3.65
I.BLK	I.BLK	10/25/2024	17:01	PO107386.D	8.64	3.64
TT-069-IDWGW-20241024	P4549-04	10/25/2024	19:08	PO107393.D	8.64	3.65
PB164403BS	PB164403BS	10/25/2024	19:44	PO107395.D	8.64	3.65
PB164403BSD	PB164403BSD	10/25/2024	20:02	PO107396.D	8.64	3.65
AR1660CCC500	AR1660CCC500	10/25/2024	20:48	PO107397.D	8.64	3.64
I.BLK	I.BLK	10/25/2024	22:01	PO107401.D	8.64	3.64
TT-067-IDWGW-20241024	P4549-02	10/25/2024	23:49	PO107407.D	8.64	3.65
TT-068-IDWGW-20241024	P4549-03	10/26/2024	00:07	PO107408.D	8.64	3.65
AR1660CCC500	AR1660CCC500	10/26/2024	00:54	PO107409.D	8.64	3.64
I.BLK	I.BLK	10/26/2024	02:06	PO107413.D	8.64	3.64
AR1660CCC500	AR1660CCC500	10/28/2024	11:22	PO107421.D	8.63	3.64
I.BLK	I.BLK	10/28/2024	12:16	PO107424.D	8.63	3.64

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Analytical Sequence

PB164403BL	PB164403BL	10/28/2024	13:46	PO107429.D	8.64	3.64
TT-067-IDWGW-20241024RE	P4549-02RE	10/28/2024	14:04	PO107430.D	8.64	3.64
TT-068-IDWGW-20241024RE	P4549-03RE	10/28/2024	14:22	PO107431.D	8.64	3.64
TT-069-IDWGW-20241024RE	P4549-04RE	10/28/2024	14:40	PO107432.D	8.64	3.64
AR1660CCC500	AR1660CCC500	10/28/2024	16:10	PO107435.D	8.63	3.64
I.BLK	I.BLK	10/28/2024	17:40	PO107440.D	8.63	3.64

QC SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164403BL	SDG No.:	P4549
Lab Sample ID:	PB164403BL	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107429.D	1	10/25/24 09:10	10/28/24 13:46	PB164403

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.6		35 - 137		103%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.6		40 - 135		113%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/15/24
Project:	CTO WE13	Date Received:	10/15/24
Client Sample ID:	PIBLK-PO107183.D	SDG No.:	P4549
Lab Sample ID:	I.BLK-PO107183.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107183.D	1		10/15/24	po101524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	22.1		60 - 140		110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.8		60 - 140		114%	SPK: 20

Comments:

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LOD = Limit of Detection
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	CTO WE13	Date Received:	10/25/24
Client Sample ID:	PIBLK-PO107386.D	SDG No.:	P4549
Lab Sample ID:	I.BLK-PO107386.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107386.D	1		10/25/24	PO102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	22.0		60 - 140		110%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.6		60 - 140		113%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	CTO WE13	Date Received:	10/25/24
Client Sample ID:	PIBLK-PO107401.D	SDG No.:	P4549
Lab Sample ID:	I.BLK-PO107401.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107401.D	1		10/25/24	PO102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	22.0		60 - 140		110%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.2		60 - 140		101%	SPK: 20

Comments:

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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/26/24
Project:	CTO WE13	Date Received:	10/26/24
Client Sample ID:	PIBLK-PO107413.D	SDG No.:	P4549
Lab Sample ID:	I.BLK-PO107413.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107413.D	1		10/26/24	PO102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21.6		60 - 140		108%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		60 - 140		102%	SPK: 20

Comments:

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/28/24
Project:	CTO WE13	Date Received:	10/28/24
Client Sample ID:	PIBLK-PO107424.D	SDG No.:	P4549
Lab Sample ID:	I.BLK-PO107424.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107424.D	1		10/28/24	PO102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.3		60 - 140		96%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.6		60 - 140		98%	SPK: 20

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/28/24
Project:	CTO WE13	Date Received:	10/28/24
Client Sample ID:	PIBLK-PO107440.D	SDG No.:	P4549
Lab Sample ID:	I.BLK-PO107440.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107440.D	1		10/28/24	po102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	0.40	U	0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	0.40	U	0.15	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.9		60 - 140		100%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.4		60 - 140		102%	SPK: 20

Comments:

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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164403BS	SDG No.:	P4549
Lab Sample ID:	PB164403BS	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107395.D	1	10/25/24 09:10	10/25/24 19:44	PB164403

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	4.70		0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	4.40		0.15	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	20.7		35 - 137		104%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.0		40 - 135		105%	SPK: 20

Comments:

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P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164403BSD	SDG No.:	P4549
Lab Sample ID:	PB164403BSD	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO107396.D	1	10/25/24 09:10	10/25/24 20:02	PB164403

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	4.80		0.15	0.40	0.50	ug/L
11104-28-2	Aroclor-1221	0.40	U	0.23	0.40	0.50	ug/L
11141-16-5	Aroclor-1232	0.40	U	0.37	0.40	0.50	ug/L
53469-21-9	Aroclor-1242	0.40	U	0.16	0.40	0.50	ug/L
12672-29-6	Aroclor-1248	0.40	U	0.12	0.40	0.50	ug/L
11097-69-1	Aroclor-1254	0.40	U	0.11	0.40	0.50	ug/L
37324-23-5	Aroclor-1262	0.40	U	0.14	0.40	0.50	ug/L
11100-14-4	Aroclor-1268	0.40	U	0.12	0.40	0.50	ug/L
11096-82-5	Aroclor-1260	4.40		0.15	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	21.5		35 - 137		108%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.1		40 - 135		105%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
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
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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LAB CHRONICLE

OrderID:	P4549	**OrderDate:**	10/24/2024 4:00:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4549-02	**TT-067-IDWGW-2024 1024**	**Water**			**10/24/24**			**10/24/24**
			Mercury	7470A		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4549-03	**TT-068-IDWGW-2024 1024**	**Water**			**10/24/24**			**10/24/24**
			Mercury	7470A		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	
P4549-04	**TT-069-IDWGW-2024 1024**	**Water**			**10/24/24**			**10/24/24**
			Mercury	7470A		10/25/24	10/28/24	
			Metals ICP-TAL	6010D		10/25/24	10/28/24	

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Hit Summary Sheet
SW-846

SDG No.: P4549 **Order ID:** P4549

Client: Tetra Tech NUS, Inc. **Project ID:** CTO WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT-067-IDWGW-20241024									
P4549-02	TT-067-IDWGW-20241024	Water	Aluminum	19000		28.3	40.0	50.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Arsenic	4.33	J	3.48	8.00	10.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Barium	85.5		6.28	12.5	50.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Beryllium	1.02	J	0.13	0.75	3.00	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Cadmium	0.62	J	0.094	0.75	3.00	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Calcium	8450		33.0	250	1000	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Chromium	37.7		0.66	2.50	5.00	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Cobalt	14.2	J	0.50	3.75	15.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Copper	33.0		7.07	8.00	10.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Iron	8550		18.5	40.0	50.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Lead	18.9		3.51	4.80	6.00	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Magnesium	3790		39.4	250	1000	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Manganese	283		1.46	2.50	10.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Nickel	21.4		0.85	5.00	20.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Potassium	2700		685	800	1000	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Sodium	36900		237	500	1000	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Vanadium	27.1		3.06	10.0	20.0	ug/L
P4549-02	TT-067-IDWGW-20241024	Water	Zinc	40.8		1.75	5.00	20.0	ug/L
Client ID : TT-068-IDWGW-20241024									
P4549-03	TT-068-IDWGW-20241024	Water	Aluminum	37900		28.3	40.0	50.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Arsenic	7.93	J	3.48	8.00	10.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Barium	151		6.28	12.5	50.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Beryllium	2.47	J	0.13	0.75	3.00	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Cadmium	1.55	J	0.094	0.75	3.00	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Calcium	17600		33.0	250	1000	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Chromium	31.5		0.66	2.50	5.00	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Cobalt	12.6	J	0.50	3.75	15.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Copper	21.0		7.07	8.00	10.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Iron	18500		18.5	40.0	50.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Lead	36.8		3.51	4.80	6.00	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Magnesium	7970		39.4	250	1000	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Manganese	430		1.46	2.50	10.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Nickel	21.3		0.85	5.00	20.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Potassium	2490		685	800	1000	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Sodium	55700		237	500	1000	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Vanadium	33.7		3.06	10.0	20.0	ug/L
P4549-03	TT-068-IDWGW-20241024	Water	Zinc	74.0		1.75	5.00	20.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: P4549 **Order ID:** P4549

Client: Tetra Tech NUS, Inc. **Project ID:** CTO WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT-069-IDWGW-20241024									
P4549-04	TT-069-IDWGW-20241024	Water	Aluminum	13000		28.3	40.0	50.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Barium	96.5		6.28	12.5	50.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Beryllium	1.11	J	0.13	0.75	3.00	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Cadmium	0.50	J	0.094	0.75	3.00	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Calcium	9080		33.0	250	1000	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Chromium	15.1		0.66	2.50	5.00	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Cobalt	5.18	J	0.50	3.75	15.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Copper	11.2		7.07	8.00	10.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Iron	7460		18.5	40.0	50.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Lead	16.3		3.51	4.80	6.00	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Magnesium	3380		39.4	250	1000	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Manganese	192		1.46	2.50	10.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Nickel	9.45	J	0.85	5.00	20.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Potassium	1480		685	800	1000	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Sodium	43600		237	500	1000	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Vanadium	13.5	J	3.06	10.0	20.0	ug/L
P4549-04	TT-069-IDWGW-20241024	Water	Zinc	35.7		1.75	5.00	20.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-067-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	19000		1	28.3	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-36-0	Antimony	6.25	UN	1	2.06	6.25	25.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-38-2	Arsenic	4.33	JN	1	3.48	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-39-3	Barium	85.5		1	6.28	12.5	50.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-41-7	Beryllium	1.02	JN	1	0.13	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-43-9	Cadmium	0.62	JN	1	0.094	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-70-2	Calcium	8450		1	33.0	250	1000	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-47-3	Chromium	37.7		1	0.66	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-48-4	Cobalt	14.2	J	1	0.50	3.75	15.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-50-8	Copper	33.0		1	7.07	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-89-6	Iron	8550		1	18.5	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-92-1	Lead	18.9	N	1	3.51	4.80	6.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-95-4	Magnesium	3790	N	1	39.4	250	1000	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-96-5	Manganese	283	N	1	1.46	2.50	10.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7439-97-6	Mercury	0.16	U	1	0.081	0.16	0.20	ug/L	10/25/24 08:10	10/28/24 11:37	SW7470A	
7440-02-0	Nickel	21.4		1	0.85	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-09-7	Potassium	2700		1	685	800	1000	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7782-49-2	Selenium	8.00	UN	1	5.88	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-22-4	Silver	2.50	UN	1	0.58	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-23-5	Sodium	36900		1	237	500	1000	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-28-0	Thallium	10.0	UN	1	2.32	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-62-2	Vanadium	27.1	N	1	3.06	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010
7440-66-6	Zinc	40.8		1	1.75	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:44	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-068-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	37900		1	28.3	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-36-0	Antimony	6.25	UN	1	2.06	6.25	25.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-38-2	Arsenic	7.93	JN	1	3.48	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-39-3	Barium	151		1	6.28	12.5	50.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-41-7	Beryllium	2.47	JN	1	0.13	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-43-9	Cadmium	1.55	JN	1	0.094	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-70-2	Calcium	17600		1	33.0	250	1000	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-47-3	Chromium	31.5		1	0.66	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-48-4	Cobalt	12.6	J	1	0.50	3.75	15.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-50-8	Copper	21.0		1	7.07	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-89-6	Iron	18500		1	18.5	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-92-1	Lead	36.8	N	1	3.51	4.80	6.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-95-4	Magnesium	7970	N	1	39.4	250	1000	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-96-5	Manganese	430	N	1	1.46	2.50	10.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7439-97-6	Mercury	0.16	U	1	0.081	0.16	0.20	ug/L	10/25/24 08:10	10/28/24 11:46	SW7470A	
7440-02-0	Nickel	21.3		1	0.85	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-09-7	Potassium	2490		1	685	800	1000	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7782-49-2	Selenium	8.00	UN	1	5.88	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-22-4	Silver	2.50	UN	1	0.58	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-23-5	Sodium	55700		1	237	500	1000	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-28-0	Thallium	10.0	UN	1	2.32	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-62-2	Vanadium	33.7	N	1	3.06	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010
7440-66-6	Zinc	74.0		1	1.75	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:48	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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OR = Over Range
N =Spiked sample recovery not within control limits

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-069-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	13000		1	28.3	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-36-0	Antimony	6.25	UN	1	2.06	6.25	25.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-38-2	Arsenic	8.00	UN	1	3.48	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-39-3	Barium	96.5		1	6.28	12.5	50.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-41-7	Beryllium	1.11	JN	1	0.13	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-43-9	Cadmium	0.50	JN	1	0.094	0.75	3.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-70-2	Calcium	9080		1	33.0	250	1000	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-47-3	Chromium	15.1		1	0.66	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-48-4	Cobalt	5.18	J	1	0.50	3.75	15.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-50-8	Copper	11.2		1	7.07	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-89-6	Iron	7460		1	18.5	40.0	50.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-92-1	Lead	16.3	N	1	3.51	4.80	6.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-95-4	Magnesium	3380	N	1	39.4	250	1000	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-96-5	Manganese	192	N	1	1.46	2.50	10.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7439-97-6	Mercury	0.16	U	1	0.081	0.16	0.20	ug/L	10/25/24 08:10	10/28/24 11:56	SW7470A	
7440-02-0	Nickel	9.45	J	1	0.85	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-09-7	Potassium	1480		1	685	800	1000	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7782-49-2	Selenium	8.00	UN	1	5.88	8.00	10.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-22-4	Silver	2.50	UN	1	0.58	2.50	5.00	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-23-5	Sodium	43600		1	237	500	1000	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-28-0	Thallium	10.0	UN	1	2.32	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-62-2	Vanadium	13.5	JN	1	3.06	10.0	20.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010
7440-66-6	Zinc	35.7		1	1.75	5.00	20.0	ug/L	10/25/24 11:00	10/28/24 13:52	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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Fax : 908 789 8922

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV55	Mercury	3.70	4.0	92	90 - 110	CV	10/28/2024	11:09	LB133167

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV79	Mercury	5.23	5.0	105	90 - 110	CV	10/28/2024	11:16	LB133167
CCV80	Mercury	4.95	5.0	99	90 - 110	CV	10/28/2024	11:48	LB133167
CCV81	Mercury	4.98	5.0	100	90 - 110	CV	10/28/2024	12:09	LB133167

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- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2490	2500	100	90 - 110	P	10/28/2024	12:57	LB133175
	Antimony	1020	1000	102	90 - 110	P	10/28/2024	12:57	LB133175
	Arsenic	975	1000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Barium	483	520	93	90 - 110	P	10/28/2024	12:57	LB133175
	Beryllium	490	510	96	90 - 110	P	10/28/2024	12:57	LB133175
	Cadmium	494	510	97	90 - 110	P	10/28/2024	12:57	LB133175
	Calcium	9820	10000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Chromium	532	520	102	90 - 110	P	10/28/2024	12:57	LB133175
	Cobalt	528	520	102	90 - 110	P	10/28/2024	12:57	LB133175
	Copper	497	510	97	90 - 110	P	10/28/2024	12:57	LB133175
	Iron	10100	10000	101	90 - 110	P	10/28/2024	12:57	LB133175
	Lead	983	1000	98	90 - 110	P	10/28/2024	12:57	LB133175
	Magnesium	5750	6000	96	90 - 110	P	10/28/2024	12:57	LB133175
	Manganese	491	520	94	90 - 110	P	10/28/2024	12:57	LB133175
	Nickel	531	530	100	90 - 110	P	10/28/2024	12:57	LB133175
	Potassium	10500	9900	106	90 - 110	P	10/28/2024	12:57	LB133175
	Selenium	1010	1000	101	90 - 110	P	10/28/2024	12:57	LB133175
	Silver	273	250	109	90 - 110	P	10/28/2024	12:57	LB133175
	Sodium	9920	10000	99	90 - 110	P	10/28/2024	12:57	LB133175
	Thallium	970	1000	97	90 - 110	P	10/28/2024	12:57	LB133175
	Vanadium	485	500	97	90 - 110	P	10/28/2024	12:57	LB133175
	Zinc	1100	1000	110	90 - 110	P	10/28/2024	12:57	LB133175

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	107	100	107	80 - 120	P	10/28/2024	13:04	LB133175
	Antimony	50.7	50.0	101	80 - 120	P	10/28/2024	13:04	LB133175
	Arsenic	18.8	20.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Barium	94.7	100	95	80 - 120	P	10/28/2024	13:04	LB133175
	Beryllium	5.67	6.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Cadmium	5.66	6.0	94	80 - 120	P	10/28/2024	13:04	LB133175
	Calcium	1960	2000	98	80 - 120	P	10/28/2024	13:04	LB133175
	Chromium	9.20	10.0	92	80 - 120	P	10/28/2024	13:04	LB133175
	Cobalt	29.9	30.0	100	80 - 120	P	10/28/2024	13:04	LB133175
	Copper	21.5	20.0	108	80 - 120	P	10/28/2024	13:04	LB133175
	Iron	107	100	107	80 - 120	P	10/28/2024	13:04	LB133175
	Lead	11.0	12.0	92	80 - 120	P	10/28/2024	13:04	LB133175
	Magnesium	1920	2000	96	80 - 120	P	10/28/2024	13:04	LB133175
	Manganese	19.2	20.0	96	80 - 120	P	10/28/2024	13:04	LB133175
	Nickel	39.8	40.0	100	80 - 120	P	10/28/2024	13:04	LB133175
	Potassium	2020	2000	101	80 - 120	P	10/28/2024	13:04	LB133175
	Selenium	18.6	20.0	93	80 - 120	P	10/28/2024	13:04	LB133175
	Silver	11.3	10.0	113	80 - 120	P	10/28/2024	13:04	LB133175
	Sodium	1850	2000	92	80 - 120	P	10/28/2024	13:04	LB133175
	Thallium	36.2	40.0	90	80 - 120	P	10/28/2024	13:04	LB133175
	Vanadium	38.7	40.0	97	80 - 120	P	10/28/2024	13:04	LB133175
	Zinc	38.8	40.0	97	80 - 120	P	10/28/2024	13:04	LB133175

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9650	10000	96	90 - 110	P	10/28/2024	13:35	LB133175
	Antimony	4940	5000	99	90 - 110	P	10/28/2024	13:35	LB133175
	Arsenic	4870	5000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Barium	9340	10000	93	90 - 110	P	10/28/2024	13:35	LB133175
	Beryllium	240	250	96	90 - 110	P	10/28/2024	13:35	LB133175
	Cadmium	2430	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Calcium	23700	25000	95	90 - 110	P	10/28/2024	13:35	LB133175
	Chromium	969	1000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Cobalt	2420	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Copper	1240	1250	99	90 - 110	P	10/28/2024	13:35	LB133175
	Iron	4970	5000	100	90 - 110	P	10/28/2024	13:35	LB133175
	Lead	4840	5000	97	90 - 110	P	10/28/2024	13:35	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	13:35	LB133175
	Manganese	2310	2500	92	90 - 110	P	10/28/2024	13:35	LB133175
	Nickel	2430	2500	97	90 - 110	P	10/28/2024	13:35	LB133175
	Potassium	25200	25000	101	90 - 110	P	10/28/2024	13:35	LB133175
	Selenium	4920	5000	98	90 - 110	P	10/28/2024	13:35	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	13:35	LB133175
	Sodium	24700	25000	99	90 - 110	P	10/28/2024	13:35	LB133175
	Thallium	4620	5000	92	90 - 110	P	10/28/2024	13:35	LB133175
	Vanadium	2390	2500	96	90 - 110	P	10/28/2024	13:35	LB133175
	Zinc	2550	2500	102	90 - 110	P	10/28/2024	13:35	LB133175
CCV02	Aluminum	9710	10000	97	90 - 110	P	10/28/2024	14:25	LB133175
	Antimony	4980	5000	100	90 - 110	P	10/28/2024	14:25	LB133175
	Arsenic	4910	5000	98	90 - 110	P	10/28/2024	14:25	LB133175
	Barium	9410	10000	94	90 - 110	P	10/28/2024	14:25	LB133175
	Beryllium	240	250	96	90 - 110	P	10/28/2024	14:25	LB133175
	Cadmium	2440	2500	98	90 - 110	P	10/28/2024	14:25	LB133175
	Calcium	23800	25000	95	90 - 110	P	10/28/2024	14:25	LB133175
	Chromium	959	1000	96	90 - 110	P	10/28/2024	14:25	LB133175
	Cobalt	2430	2500	97	90 - 110	P	10/28/2024	14:25	LB133175
	Copper	1250	1250	100	90 - 110	P	10/28/2024	14:25	LB133175
	Iron	4830	5000	97	90 - 110	P	10/28/2024	14:25	LB133175
	Lead	4860	5000	97	90 - 110	P	10/28/2024	14:25	LB133175

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23700	25000	95	90 - 110	P	10/28/2024	14:25	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	14:25	LB133175
	Nickel	2440	2500	98	90 - 110	P	10/28/2024	14:25	LB133175
	Potassium	24600	25000	98	90 - 110	P	10/28/2024	14:25	LB133175
	Selenium	4970	5000	100	90 - 110	P	10/28/2024	14:25	LB133175
	Silver	1240	1250	99	90 - 110	P	10/28/2024	14:25	LB133175
	Sodium	24100	25000	96	90 - 110	P	10/28/2024	14:25	LB133175
	Thallium	4740	5000	95	90 - 110	P	10/28/2024	14:25	LB133175
	Vanadium	2400	2500	96	90 - 110	P	10/28/2024	14:25	LB133175
	Zinc	2510	2500	100	90 - 110	P	10/28/2024	14:25	LB133175
CCV03	Aluminum	9970	10000	100	90 - 110	P	10/28/2024	15:15	LB133175
	Antimony	5180	5000	104	90 - 110	P	10/28/2024	15:15	LB133175
	Arsenic	5060	5000	101	90 - 110	P	10/28/2024	15:15	LB133175
	Barium	9730	10000	97	90 - 110	P	10/28/2024	15:15	LB133175
	Beryllium	242	250	97	90 - 110	P	10/28/2024	15:15	LB133175
	Cadmium	2470	2500	99	90 - 110	P	10/28/2024	15:15	LB133175
	Calcium	24000	25000	96	90 - 110	P	10/28/2024	15:15	LB133175
	Chromium	980	1000	98	90 - 110	P	10/28/2024	15:15	LB133175
	Cobalt	2480	2500	99	90 - 110	P	10/28/2024	15:15	LB133175
	Copper	1290	1250	104	90 - 110	P	10/28/2024	15:15	LB133175
	Iron	5000	5000	100	90 - 110	P	10/28/2024	15:15	LB133175
	Lead	4940	5000	99	90 - 110	P	10/28/2024	15:15	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	15:15	LB133175
	Manganese	2350	2500	94	90 - 110	P	10/28/2024	15:15	LB133175
	Nickel	2490	2500	100	90 - 110	P	10/28/2024	15:15	LB133175
	Potassium	26000	25000	104	90 - 110	P	10/28/2024	15:15	LB133175
	Selenium	5150	5000	103	90 - 110	P	10/28/2024	15:15	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	15:15	LB133175
	Sodium	25500	25000	102	90 - 110	P	10/28/2024	15:15	LB133175
	Thallium	4680	5000	94	90 - 110	P	10/28/2024	15:15	LB133175
	Vanadium	2450	2500	98	90 - 110	P	10/28/2024	15:15	LB133175
	Zinc	2600	2500	104	90 - 110	P	10/28/2024	15:15	LB133175
CCV04	Aluminum	9820	10000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Antimony	5100	5000	102	90 - 110	P	10/28/2024	16:06	LB133175

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Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5020	5000	100	90 - 110	P	10/28/2024	16:06	LB133175
	Barium	9800	10000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Beryllium	239	250	96	90 - 110	P	10/28/2024	16:06	LB133175
	Cadmium	2440	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Calcium	23800	25000	95	90 - 110	P	10/28/2024	16:06	LB133175
	Chromium	974	1000	97	90 - 110	P	10/28/2024	16:06	LB133175
	Cobalt	2450	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Copper	1270	1250	102	90 - 110	P	10/28/2024	16:06	LB133175
	Iron	4960	5000	99	90 - 110	P	10/28/2024	16:06	LB133175
	Lead	4870	5000	97	90 - 110	P	10/28/2024	16:06	LB133175
	Magnesium	23500	25000	94	90 - 110	P	10/28/2024	16:06	LB133175
	Manganese	2330	2500	93	90 - 110	P	10/28/2024	16:06	LB133175
	Nickel	2460	2500	98	90 - 110	P	10/28/2024	16:06	LB133175
	Potassium	25900	25000	104	90 - 110	P	10/28/2024	16:06	LB133175
	Selenium	5100	5000	102	90 - 110	P	10/28/2024	16:06	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	16:06	LB133175
	Sodium	25500	25000	102	90 - 110	P	10/28/2024	16:06	LB133175
	Thallium	4910	5000	98	90 - 110	P	10/28/2024	16:06	LB133175
	Vanadium	2410	2500	97	90 - 110	P	10/28/2024	16:06	LB133175
	Zinc	2560	2500	102	90 - 110	P	10/28/2024	16:06	LB133175
CCV05	Aluminum	10000	10000	100	90 - 110	P	10/28/2024	16:57	LB133175
	Antimony	5310	5000	106	90 - 110	P	10/28/2024	16:57	LB133175
	Arsenic	5210	5000	104	90 - 110	P	10/28/2024	16:57	LB133175
	Barium	9800	10000	98	90 - 110	P	10/28/2024	16:57	LB133175
	Beryllium	241	250	96	90 - 110	P	10/28/2024	16:57	LB133175
	Cadmium	2490	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Calcium	23900	25000	96	90 - 110	P	10/28/2024	16:57	LB133175
	Chromium	965	1000	96	90 - 110	P	10/28/2024	16:57	LB133175
	Cobalt	2490	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Copper	1310	1250	105	90 - 110	P	10/28/2024	16:57	LB133175
	Iron	4900	5000	98	90 - 110	P	10/28/2024	16:57	LB133175
	Lead	4990	5000	100	90 - 110	P	10/28/2024	16:57	LB133175
	Magnesium	23700	25000	95	90 - 110	P	10/28/2024	16:57	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	16:57	LB133175

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Fax : 908 789 8922

Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2500	2500	100	90 - 110	P	10/28/2024	16:57	LB133175
	Potassium	26200	25000	105	90 - 110	P	10/28/2024	16:57	LB133175
	Selenium	5400	5000	108	90 - 110	P	10/28/2024	16:57	LB133175
	Silver	1280	1250	102	90 - 110	P	10/28/2024	16:57	LB133175
	Sodium	25700	25000	103	90 - 110	P	10/28/2024	16:57	LB133175
	Thallium	5470	5000	109	90 - 110	P	10/28/2024	16:57	LB133175
	Vanadium	2420	2500	97	90 - 110	P	10/28/2024	16:57	LB133175
	Zinc	2610	2500	104	90 - 110	P	10/28/2024	16:57	LB133175
CCV06	Aluminum	9870	10000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Antimony	5170	5000	103	90 - 110	P	10/28/2024	17:50	LB133175
	Arsenic	5080	5000	102	90 - 110	P	10/28/2024	17:50	LB133175
	Barium	9780	10000	98	90 - 110	P	10/28/2024	17:50	LB133175
	Beryllium	245	250	98	90 - 110	P	10/28/2024	17:50	LB133175
	Cadmium	2490	2500	100	90 - 110	P	10/28/2024	17:50	LB133175
	Calcium	24000	25000	96	90 - 110	P	10/28/2024	17:50	LB133175
	Chromium	973	1000	97	90 - 110	P	10/28/2024	17:50	LB133175
	Cobalt	2480	2500	99	90 - 110	P	10/28/2024	17:50	LB133175
	Copper	1290	1250	103	90 - 110	P	10/28/2024	17:50	LB133175
	Iron	4880	5000	98	90 - 110	P	10/28/2024	17:50	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	17:50	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	17:50	LB133175
	Nickel	2490	2500	100	90 - 110	P	10/28/2024	17:50	LB133175
	Potassium	25600	25000	103	90 - 110	P	10/28/2024	17:50	LB133175
	Selenium	5210	5000	104	90 - 110	P	10/28/2024	17:50	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	17:50	LB133175
	Sodium	24900	25000	99	90 - 110	P	10/28/2024	17:50	LB133175
	Thallium	5370	5000	107	90 - 110	P	10/28/2024	17:50	LB133175
	Vanadium	2410	2500	96	90 - 110	P	10/28/2024	17:50	LB133175
	Zinc	2580	2500	103	90 - 110	P	10/28/2024	17:50	LB133175
CCV07	Aluminum	9960	10000	100	90 - 110	P	10/28/2024	18:43	LB133175
	Antimony	5210	5000	104	90 - 110	P	10/28/2024	18:43	LB133175
	Arsenic	5110	5000	102	90 - 110	P	10/28/2024	18:43	LB133175
	Barium	9750	10000	98	90 - 110	P	10/28/2024	18:43	LB133175

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	243	250	97	90 - 110	P	10/28/2024	18:43	LB133175
	Cadmium	2480	2500	99	90 - 110	P	10/28/2024	18:43	LB133175
	Calcium	24000	25000	96	90 - 110	P	10/28/2024	18:43	LB133175
	Chromium	966	1000	97	90 - 110	P	10/28/2024	18:43	LB133175
	Cobalt	2490	2500	100	90 - 110	P	10/28/2024	18:43	LB133175
	Copper	1290	1250	103	90 - 110	P	10/28/2024	18:43	LB133175
	Iron	4820	5000	96	90 - 110	P	10/28/2024	18:43	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	18:43	LB133175
	Magnesium	23800	25000	95	90 - 110	P	10/28/2024	18:43	LB133175
	Manganese	2320	2500	93	90 - 110	P	10/28/2024	18:43	LB133175
	Nickel	2490	2500	100	90 - 110	P	10/28/2024	18:43	LB133175
	Potassium	25600	25000	102	90 - 110	P	10/28/2024	18:43	LB133175
	Selenium	5270	5000	106	90 - 110	P	10/28/2024	18:43	LB133175
	Silver	1260	1250	101	90 - 110	P	10/28/2024	18:43	LB133175
	Sodium	24200	25000	97	90 - 110	P	10/28/2024	18:43	LB133175
	Thallium	5500	5000	110	90 - 110	P	10/28/2024	18:43	LB133175
	Vanadium	2420	2500	97	90 - 110	P	10/28/2024	18:43	LB133175
	Zinc	2570	2500	103	90 - 110	P	10/28/2024	18:43	LB133175
CCV08	Aluminum	10300	10000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Antimony	5400	5000	108	90 - 110	P	10/28/2024	19:33	LB133175
	Arsenic	5290	5000	106	90 - 110	P	10/28/2024	19:33	LB133175
	Barium	10000	10000	100	90 - 110	P	10/28/2024	19:33	LB133175
	Beryllium	251	250	100	90 - 110	P	10/28/2024	19:33	LB133175
	Cadmium	2570	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Calcium	24700	25000	99	90 - 110	P	10/28/2024	19:33	LB133175
	Chromium	989	1000	99	90 - 110	P	10/28/2024	19:33	LB133175
	Cobalt	2570	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Copper	1340	1250	107	90 - 110	P	10/28/2024	19:33	LB133175
	Iron	5020	5000	100	90 - 110	P	10/28/2024	19:33	LB133175
	Lead	5130	5000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Magnesium	24500	25000	98	90 - 110	P	10/28/2024	19:33	LB133175
	Manganese	2360	2500	94	90 - 110	P	10/28/2024	19:33	LB133175
	Nickel	2580	2500	103	90 - 110	P	10/28/2024	19:33	LB133175
	Potassium	26700	25000	107	90 - 110	P	10/28/2024	19:33	LB133175

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	5470	5000	110	90 - 110	P	10/28/2024	19:33	LB133175
	Silver	1310	1250	105	90 - 110	P	10/28/2024	19:33	LB133175
	Sodium	25700	25000	103	90 - 110	P	10/28/2024	19:33	LB133175
	Thallium	5470	5000	109	90 - 110	P	10/28/2024	19:33	LB133175
	Vanadium	2500	2500	100	90 - 110	P	10/28/2024	19:33	LB133175
	Zinc	2680	2500	107	90 - 110	P	10/28/2024	19:33	LB133175
CCV09	Aluminum	10100	10000	101	90 - 110	P	10/28/2024	20:22	LB133175
	Antimony	5270	5000	105	90 - 110	P	10/28/2024	20:22	LB133175
	Arsenic	5200	5000	104	90 - 110	P	10/28/2024	20:22	LB133175
	Barium	9830	10000	98	90 - 110	P	10/28/2024	20:22	LB133175
	Beryllium	249	250	100	90 - 110	P	10/28/2024	20:22	LB133175
	Cadmium	2530	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Calcium	24400	25000	97	90 - 110	P	10/28/2024	20:22	LB133175
	Chromium	975	1000	98	90 - 110	P	10/28/2024	20:22	LB133175
	Cobalt	2520	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Copper	1310	1250	105	90 - 110	P	10/28/2024	20:22	LB133175
	Iron	4930	5000	99	90 - 110	P	10/28/2024	20:22	LB133175
	Lead	5040	5000	101	90 - 110	P	10/28/2024	20:22	LB133175
	Magnesium	24100	25000	96	90 - 110	P	10/28/2024	20:22	LB133175
	Manganese	2330	2500	93	90 - 110	P	10/28/2024	20:22	LB133175
	Nickel	2530	2500	101	90 - 110	P	10/28/2024	20:22	LB133175
	Potassium	26200	25000	105	90 - 110	P	10/28/2024	20:22	LB133175
	Selenium	5360	5000	107	90 - 110	P	10/28/2024	20:22	LB133175
	Silver	1290	1250	103	90 - 110	P	10/28/2024	20:22	LB133175
	Sodium	25500	25000	102	90 - 110	P	10/28/2024	20:22	LB133175
	Thallium	5490	5000	110	90 - 110	P	10/28/2024	20:22	LB133175
	Vanadium	2440	2500	98	90 - 110	P	10/28/2024	20:22	LB133175
	Zinc	2620	2500	105	90 - 110	P	10/28/2024	20:22	LB133175
CCV10	Aluminum	10000	10000	100	90 - 110	P	10/28/2024	21:21	LB133175
	Antimony	5270	5000	106	90 - 110	P	10/28/2024	21:21	LB133175
	Arsenic	5180	5000	104	90 - 110	P	10/28/2024	21:21	LB133175
	Barium	9840	10000	98	90 - 110	P	10/28/2024	21:21	LB133175
	Beryllium	242	250	97	90 - 110	P	10/28/2024	21:21	LB133175
	Cadmium	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	23900	25000	96	90 - 110	P	10/28/2024	21:21	LB133175
	Chromium	967	1000	97	90 - 110	P	10/28/2024	21:21	LB133175
	Cobalt	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175
	Copper	1300	1250	104	90 - 110	P	10/28/2024	21:21	LB133175
	Iron	4860	5000	97	90 - 110	P	10/28/2024	21:21	LB133175
	Lead	4980	5000	100	90 - 110	P	10/28/2024	21:21	LB133175
	Magnesium	23600	25000	94	90 - 110	P	10/28/2024	21:21	LB133175
	Manganese	2310	2500	92	90 - 110	P	10/28/2024	21:21	LB133175
	Nickel	2500	2500	100	90 - 110	P	10/28/2024	21:21	LB133175
	Potassium	26300	25000	105	90 - 110	P	10/28/2024	21:21	LB133175
	Selenium	5330	5000	107	90 - 110	P	10/28/2024	21:21	LB133175
	Silver	1270	1250	102	90 - 110	P	10/28/2024	21:21	LB133175
	Sodium	25700	25000	103	90 - 110	P	10/28/2024	21:21	LB133175
	Thallium	5330	5000	106	90 - 110	P	10/28/2024	21:21	LB133175
	Vanadium	2420	2500	97	90 - 110	P	10/28/2024	21:21	LB133175
	Zinc	2600	2500	104	90 - 110	P	10/28/2024	21:21	LB133175
CCV11	Aluminum	10100	10000	101	90 - 110	P	10/28/2024	21:38	LB133175
	Antimony	5340	5000	107	90 - 110	P	10/28/2024	21:38	LB133175
	Arsenic	5220	5000	104	90 - 110	P	10/28/2024	21:38	LB133175
	Barium	10100	10000	101	90 - 110	P	10/28/2024	21:38	LB133175
	Beryllium	244	250	98	90 - 110	P	10/28/2024	21:38	LB133175
	Cadmium	2480	2500	99	90 - 110	P	10/28/2024	21:38	LB133175
	Calcium	23800	25000	95	90 - 110	P	10/28/2024	21:38	LB133175
	Chromium	970	1000	97	90 - 110	P	10/28/2024	21:38	LB133175
	Cobalt	2490	2500	100	90 - 110	P	10/28/2024	21:38	LB133175
	Copper	1320	1250	106	90 - 110	P	10/28/2024	21:38	LB133175
	Iron	4970	5000	100	90 - 110	P	10/28/2024	21:38	LB133175
	Lead	4970	5000	99	90 - 110	P	10/28/2024	21:38	LB133175
	Magnesium	23600	25000	94	90 - 110	P	10/28/2024	21:38	LB133175
	Manganese	2330	2500	93	90 - 110	P	10/28/2024	21:38	LB133175
	Nickel	2500	2500	100	90 - 110	P	10/28/2024	21:38	LB133175
	Potassium	27300	25000	109	90 - 110	P	10/28/2024	21:38	LB133175
	Selenium	5380	5000	108	90 - 110	P	10/28/2024	21:38	LB133175
	Silver	1290	1250	103	90 - 110	P	10/28/2024	21:38	LB133175

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Sodium	25900	25000	104	90 - 110	P	10/28/2024	21:38	LB133175
	Thallium	5170	5000	103	90 - 110	P	10/28/2024	21:38	LB133175
	Vanadium	2440	2500	98	90 - 110	P	10/28/2024	21:38	LB133175
	Zinc	2540	2500	102	90 - 110	P	10/28/2024	21:38	LB133175

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.18	0.2	88	40 - 160	CV	10/28/2024	11:23	LB133167
CRI01	Aluminum	102	100	102	40 - 160	P	10/28/2024	13:12	LB133175
	Antimony	50.0	50.0	100	40 - 160	P	10/28/2024	13:12	LB133175
	Arsenic	19.1	20.0	96	40 - 160	P	10/28/2024	13:12	LB133175
	Barium	93.7	100	94	40 - 160	P	10/28/2024	13:12	LB133175
	Beryllium	5.64	6.0	94	40 - 160	P	10/28/2024	13:12	LB133175
	Cadmium	5.55	6.0	92	40 - 160	P	10/28/2024	13:12	LB133175
	Calcium	1930	2000	96	40 - 160	P	10/28/2024	13:12	LB133175
	Chromium	9.13	10.0	91	40 - 160	P	10/28/2024	13:12	LB133175
	Cobalt	29.3	30.0	98	40 - 160	P	10/28/2024	13:12	LB133175
	Copper	21.1	20.0	105	40 - 160	P	10/28/2024	13:12	LB133175
	Iron	98.8	100	99	40 - 160	P	10/28/2024	13:12	LB133175
	Lead	11.5	12.0	96	40 - 160	P	10/28/2024	13:12	LB133175
	Magnesium	1900	2000	95	40 - 160	P	10/28/2024	13:12	LB133175
	Manganese	19.1	20.0	95	40 - 160	P	10/28/2024	13:12	LB133175
	Nickel	39.2	40.0	98	40 - 160	P	10/28/2024	13:12	LB133175
	Potassium	1940	2000	97	40 - 160	P	10/28/2024	13:12	LB133175
	Selenium	17.6	20.0	88	40 - 160	P	10/28/2024	13:12	LB133175
	Silver	11.0	10.0	110	40 - 160	P	10/28/2024	13:12	LB133175
	Sodium	1780	2000	89	40 - 160	P	10/28/2024	13:12	LB133175
	Thallium	34.9	40.0	87	40 - 160	P	10/28/2024	13:12	LB133175
	Vanadium	36.9	40.0	92	40 - 160	P	10/28/2024	13:12	LB133175
	Zinc	37.3	40.0	93	40 - 160	P	10/28/2024	13:12	LB133175

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB55	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	10/28/2024	11:14	LB133167

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB79	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	10/28/2024	11:21	LB133167
CCB80	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	10/28/2024	11:53	LB133167
CCB81	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	10/28/2024	12:14	LB133167

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	13:08	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	13:08	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	13:08	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	13:08	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	13:08	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	13:08	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	13:08	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	13:08	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	13:08	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	13:08	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	13:08	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	13:08	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	13:08	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	13:08	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	13:08	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	13:08	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	13:08	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	13:08	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	13:08	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	13:08	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	13:08	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	13:08	LB133175

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	13:39	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	13:39	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	13:39	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	13:39	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	13:39	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	13:39	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	13:39	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	13:39	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	13:39	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	13:39	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	13:39	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	13:39	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	13:39	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	13:39	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	13:39	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	13:39	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	13:39	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	13:39	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	13:39	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	13:39	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	13:39	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	13:39	LB133175
CCB02	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	14:30	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	14:30	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	14:30	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	14:30	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	14:30	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	14:30	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	14:30	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	14:30	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	14:30	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	14:30	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	14:30	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	14:30	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	14:30	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	14:30	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	14:30	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	14:30	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	14:30	LB133175

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Fax : 908 789 8922

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	14:30	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	14:30	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	14:30	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	14:30	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	14:30	LB133175
CCB03	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	15:20	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	15:20	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	15:20	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	15:20	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	15:20	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	15:20	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	15:20	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	15:20	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	15:20	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	15:20	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	15:20	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	15:20	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	15:20	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	15:20	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	15:20	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	15:20	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	15:20	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	15:20	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	15:20	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	15:20	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	15:20	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	15:20	LB133175
CCB04	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	16:10	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	16:10	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	16:10	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	16:10	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	16:10	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	16:10	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	16:10	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	16:10	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	16:10	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	16:10	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	16:10	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	16:10	LB133175

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	16:10	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	16:10	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	16:10	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	16:10	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	16:10	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	16:10	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	16:10	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	16:10	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	16:10	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	16:10	LB133175
CCB05	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	17:01	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	17:01	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	17:01	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	17:01	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	17:01	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	17:01	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	17:01	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	17:01	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	17:01	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	17:01	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	17:01	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	17:01	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	17:01	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	17:01	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	17:01	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	17:01	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	17:01	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	17:01	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	17:01	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	17:01	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	17:01	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	17:01	LB133175
CCB06	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	17:54	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	17:54	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	17:54	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	17:54	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	17:54	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	17:54	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	17:54	LB133175

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Fax : 908 789 8922

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	17:54	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	17:54	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	17:54	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	17:54	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	17:54	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	17:54	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	17:54	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	17:54	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	17:54	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	17:54	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	17:54	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	17:54	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	17:54	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	17:54	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	17:54	LB133175
CCB07	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	18:47	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	18:47	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	18:47	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	18:47	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	18:47	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	18:47	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	18:47	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	18:47	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	18:47	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	18:47	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	18:47	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	18:47	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	18:47	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	18:47	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	18:47	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	18:47	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	18:47	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	18:47	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	18:47	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	18:47	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	18:47	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	18:47	LB133175
CCB08	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	19:37	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	19:37	LB133175

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Fax : 908 789 8922

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	19:37	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	19:37	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	19:37	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	19:37	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	19:37	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	19:37	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	19:37	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	19:37	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	19:37	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	19:37	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	19:37	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	19:37	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	19:37	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	19:37	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	19:37	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	19:37	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	19:37	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	19:37	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	19:37	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	19:37	LB133175
CCB09	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	20:26	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	20:26	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	20:26	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	20:26	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	20:26	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	20:26	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	20:26	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	20:26	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	20:26	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	20:26	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	20:26	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	20:26	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	20:26	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	20:26	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	20:26	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	20:26	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	20:26	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	20:26	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	20:26	LB133175

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Fax : 908 789 8922

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	20:26	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	20:26	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	20:26	LB133175
CCB10	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	21:25	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	21:25	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:25	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	21:25	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	21:25	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	21:25	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	21:25	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	21:25	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	21:25	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:25	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	21:25	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	21:25	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	21:25	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	21:25	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	21:25	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	21:25	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:25	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	21:25	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	21:25	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	21:25	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	21:25	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	21:25	LB133175
CCB11	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	21:43	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	21:43	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:43	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	21:43	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	21:43	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	21:43	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	21:43	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	21:43	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	21:43	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:43	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	21:43	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	21:43	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	21:43	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	21:43	LB133175

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	21:43	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	21:43	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:43	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	21:43	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	21:43	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	21:43	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	21:43	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	21:43	LB133175

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164472BL		**WATER**		**Batch Number:**		**PB164472**		**Prep Date:**	**10/25/2024**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	10/28/2024	11:32	LB133167

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164404BL		**WATER**		**Batch Number:**		**PB164404**		**Prep Date:**	**10/25/2024**	
	Aluminum	50.0	<50.0	U	40.0	50.0	P	10/28/2024	14:17	LB133175
	Antimony	25.0	<25.0	U	6.25	25.0	P	10/28/2024	14:17	LB133175
	Arsenic	10.0	<10.0	U	8.00	10.0	P	10/28/2024	14:17	LB133175
	Barium	50.0	<50.0	U	12.5	50.0	P	10/28/2024	14:17	LB133175
	Beryllium	3.00	<3.00	U	0.75	3.00	P	10/28/2024	14:17	LB133175
	Cadmium	3.00	<3.00	U	0.75	3.00	P	10/28/2024	14:17	LB133175
	Calcium	1000	<1000	U	250	1000	P	10/28/2024	14:17	LB133175
	Chromium	5.00	<5.00	U	2.50	5.00	P	10/28/2024	14:17	LB133175
	Cobalt	15.0	<15.0	U	3.75	15.0	P	10/28/2024	14:17	LB133175
	Copper	10.0	<10.0	U	8.00	10.0	P	10/28/2024	14:17	LB133175
	Iron	50.0	<50.0	U	40.0	50.0	P	10/28/2024	14:17	LB133175
	Lead	6.00	<6.00	U	4.80	6.00	P	10/28/2024	14:17	LB133175
	Magnesium	1000	<1000	U	250	1000	P	10/28/2024	14:17	LB133175
	Manganese	10.0	<10.0	U	2.50	10.0	P	10/28/2024	14:17	LB133175
	Nickel	20.0	<20.0	U	5.00	20.0	P	10/28/2024	14:17	LB133175
	Potassium	1000	<1000	U	800	1000	P	10/28/2024	14:17	LB133175
	Selenium	10.0	<10.0	U	8.00	10.0	P	10/28/2024	14:17	LB133175
	Silver	5.00	<5.00	U	2.50	5.00	P	10/28/2024	14:17	LB133175
	Sodium	1000	<1000	U	500	1000	P	10/28/2024	14:17	LB133175
	Thallium	20.0	<20.0	U	10.0	20.0	P	10/28/2024	14:17	LB133175
	Vanadium	20.0	<20.0	U	10.0	20.0	P	10/28/2024	14:17	LB133175
	Zinc	20.0	<20.0	U	5.00	20.0	P	10/28/2024	14:17	LB133175

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	251000	255000	98	216000	294000	10/28/2024	13:16	LB133175
	Antimony	-1.00			-50	50	10/28/2024	13:16	LB133175
	Arsenic	2.59			-20	20	10/28/2024	13:16	LB133175
	Barium	2.22	6.0	37	-94	106	10/28/2024	13:16	LB133175
	Beryllium	1.16			-6	6	10/28/2024	13:16	LB133175
	Cadmium	6.97	1.0	697	-5	7	10/28/2024	13:16	LB133175
	Calcium	232000	245000	95	208000	282000	10/28/2024	13:16	LB133175
	Chromium	56.5	52.0	109	42	62	10/28/2024	13:16	LB133175
	Cobalt	2.29			-30	30	10/28/2024	13:16	LB133175
	Copper	-8.35	2.0	418	-18	22	10/28/2024	13:16	LB133175
	Iron	104000	101000	103	85600	116500	10/28/2024	13:16	LB133175
	Lead	8.36			-12	12	10/28/2024	13:16	LB133175
	Magnesium	255000	255000	100	216000	294000	10/28/2024	13:16	LB133175
	Manganese	5.76	7.0	82	-13	27	10/28/2024	13:16	LB133175
	Nickel	3.07	2.0	154	-38	42	10/28/2024	13:16	LB133175
	Potassium	-7.85			0	0	10/28/2024	13:16	LB133175
	Selenium	-9.09			-20	20	10/28/2024	13:16	LB133175
	Silver	3.99			-10	10	10/28/2024	13:16	LB133175
	Sodium	-37.5			0	0	10/28/2024	13:16	LB133175
	Thallium	7.63			-40	40	10/28/2024	13:16	LB133175
	Vanadium	6.67			-40	40	10/28/2024	13:16	LB133175
	Zinc	-2.07			-40	40	10/28/2024	13:16	LB133175
ICSAB01	Aluminum	245000	247000	99	209000	285000	10/28/2024	13:21	LB133175
	Antimony	620	618	100	525	711	10/28/2024	13:21	LB133175
	Arsenic	107	104	103	88.4	120	10/28/2024	13:21	LB133175
	Barium	472	537	88	437	637	10/28/2024	13:21	LB133175
	Beryllium	474	495	96	420	570	10/28/2024	13:21	LB133175
	Cadmium	967	972	100	826	1120	10/28/2024	13:21	LB133175
	Calcium	226000	235000	96	199000	271000	10/28/2024	13:21	LB133175
	Chromium	556	542	103	460	624	10/28/2024	13:21	LB133175
	Cobalt	513	476	108	404	548	10/28/2024	13:21	LB133175
	Copper	491	511	96	434	588	10/28/2024	13:21	LB133175
	Iron	103000	99300	104	84400	114500	10/28/2024	13:21	LB133175
	Lead	55.7	49.0	114	37	61	10/28/2024	13:21	LB133175
	Magnesium	247000	248000	100	210000	286000	10/28/2024	13:21	LB133175
	Manganese	459	507	90	430	584	10/28/2024	13:21	LB133175
	Nickel	1010	954	106	810	1100	10/28/2024	13:21	LB133175
	Potassium	45.1			0	0	10/28/2024	13:21	LB133175
	Selenium	39.8	46.0	86	26	66	10/28/2024	13:21	LB133175
	Silver	212	201	106	170	232	10/28/2024	13:21	LB133175
	Sodium	30.6			0	0	10/28/2024	13:21	LB133175
	Thallium	97.4	108	90	68	148	10/28/2024	13:21	LB133175

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	463	491	94	417	565	10/28/2024	13:21	LB133175
	Zinc	1060	952	111	809	1095	10/28/2024	13:21	LB133175

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4549

contract: TETR06 **lab code:** CHEM **case no.:** P4549 **sas no.:** P4549

matrix: Water **sample id:** P4549-02 **client id:** TT-067-IDWGW-20241024MS

Percent Solids for Sample: NA **Spiked ID:** P4549-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	4.10		0.20	U	4.0	102		CV

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4549

contract: TETR06 **lab code:** CHEM **case no.:** P4549 **sas no.:** P4549

matrix: Water **sample id:** P4549-02 **client id:** TT-067-IDWGW-20241024MSD

Percent Solids for Sample: NA **Spiked ID:** P4549-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.71		0.20	U	4.0	93		CV

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4549

contract: TETR06 **lab code:** CHEM **case no.:** P4549 **sas no.:** P4549

matrix: Water **sample id:** P4549-04 **client id:** TT-069-IDWGW-20241024MS

Percent Solids for Sample: NA **Spiked ID:** P4549-04MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	86 - 115	19900		13000		1000	692		P
Antimony	ug/L	88 - 113	117		25.0	U	400	29	N	P
Arsenic	ug/L	87 - 113	343		10.0	U	400	86	N	P
Barium	ug/L	88 - 113	185		96.5		100	88		P
Beryllium	ug/L	89 - 112	85.6		1.11	J	100	85	N	P
Cadmium	ug/L	88 - 113	86.9		0.50	J	100	86	N	P
Calcium	ug/L	87 - 113	9530		9080		500	89		P
Chromium	ug/L	90 - 113	199		15.1		200	92		P
Cobalt	ug/L	89 - 114	98.6		5.18	J	100	93		P
Copper	ug/L	86 - 114	146		11.2		150	90		P
Iron	ug/L	87 - 115	9820		7460		1500	158		P
Lead	ug/L	86 - 113	428		16.3		500	82	N	P
Magnesium	ug/L	85 - 113	4690		3380		1000	131	N	P
Manganese	ug/L	90 - 114	279		192		100	87	N	P
Nickel	ug/L	88 - 113	242		9.45	J	250	93		P
Potassium	ug/L	86 - 114	5960		1480		5000	90		P
Selenium	ug/L	83 - 114	824		10.0	U	1000	82	N	P
Silver	ug/L	84 - 115	30.3		5.00	U	37.5	81	N	P
Sodium	ug/L	87 - 115	44500		43600		1500	58		P
Thallium	ug/L	85 - 114	777		20.0	U	1000	78	N	P
Vanadium	ug/L	90 - 111	145		13.5	J	150	88	N	P
Zinc	ug/L	87 - 115	130		35.7		100	95		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4549

contract: TETR06 **lab code:** CHEM **case no.:** P4549 **sas no.:** P4549

matrix: Water **sample id:** P4549-04 **client id:** TT-069-IDWGW-20241024MSD

Percent Solids for Sample: NA **Spiked ID:** P4549-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	86 - 115	19800		13000		1000	685		P
Antimony	ug/L	88 - 113	116		25.0	U	400	29	N	P
Arsenic	ug/L	87 - 113	342		10.0	U	400	86	N	P
Barium	ug/L	88 - 113	184		96.5		100	88		P
Beryllium	ug/L	89 - 112	86.6		1.11	J	100	85	N	P
Cadmium	ug/L	88 - 113	86.6		0.50	J	100	86	N	P
Calcium	ug/L	87 - 113	9550		9080		500	93		P
Chromium	ug/L	90 - 113	204		15.1		200	94		P
Cobalt	ug/L	89 - 114	98.6		5.18	J	100	93		P
Copper	ug/L	86 - 114	145		11.2		150	90		P
Iron	ug/L	87 - 115	10000		7460		1500	170		P
Lead	ug/L	86 - 113	428		16.3		500	82	N	P
Magnesium	ug/L	85 - 113	4730		3380		1000	135	N	P
Manganese	ug/L	90 - 114	280		192		100	88	N	P
Nickel	ug/L	88 - 113	241		9.45	J	250	93		P
Potassium	ug/L	86 - 114	6060		1480		5000	92		P
Selenium	ug/L	83 - 114	821		10.0	U	1000	82	N	P
Silver	ug/L	84 - 115	30.8		5.00	U	37.5	82	N	P
Sodium	ug/L	87 - 115	45200		43600		1500	103		P
Thallium	ug/L	85 - 114	735		20.0	U	1000	74	N	P
Vanadium	ug/L	90 - 111	145		13.5	J	150	88	N	P
Zinc	ug/L	87 - 115	131		35.7		100	95		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Matrix: Water **Level:** LOW **Client ID:** TT-069-IDWGW-20241024A

Sample ID: P4549-04 **Spiked ID:** P4549-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	88 - 113	117		25.0	U	400	29		P
Arsenic	ug/L	87 - 113	342		10.0	U	400	86		P
Beryllium	ug/L	89 - 112	85.7		1.11	J	100	85		P
Cadmium	ug/L	88 - 113	86.8		0.50	J	100	86		P
Lead	ug/L	86 - 113	427		16.3		500	82		P
Magnesium	ug/L	85 - 113	4710		3380		1000	133		P
Manganese	ug/L	90 - 114	282		192		100	90		P
Selenium	ug/L	83 - 114	829		10.0	U	1000	83		P
Silver	ug/L	84 - 115	29.9		5.00	U	37.5	80		P
Thallium	ug/L	85 - 114	770		20.0	U	1000	77		P
Vanadium	ug/L	90 - 111	145		13.5	J	150	88		P

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Matrix: Water **Sample ID:** P4549-02 **Client ID:** TT-067-IDWGW-20241024DUP

Percent Solids for Sample: NA **Duplicate ID** P4549-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Matrix: Water **Sample ID:** P4549-02MS **Client ID:** TT-067-IDWGW-20241024MSD

Percent Solids for Sample: NA **Duplicate ID** P4549-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	4.10		3.71		10		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Matrix: Water **Sample ID:** P4549-04 **Client ID:** TT-069-IDWGW-20241024DUP

Percent Solids for Sample: NA **Duplicate ID** P4549-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	13000		13100		1		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	96.5		96.2		0		P
Beryllium	ug/L	20	1.11	J	1.11	J	0		P
Cadmium	ug/L	20	0.50	J	0.51	J	3		P
Calcium	ug/L	20	9080		9070		0		P
Chromium	ug/L	20	15.1		15.0		1		P
Cobalt	ug/L	20	5.18	J	5.21	J	1		P
Copper	ug/L	20	11.2		11.0		2		P
Iron	ug/L	20	7460		7700		3		P
Lead	ug/L	20	16.3		15.9		2		P
Magnesium	ug/L	20	3380		3400		1		P
Manganese	ug/L	20	192		191		1		P
Nickel	ug/L	20	9.45	J	9.28	J	2		P
Potassium	ug/L	20	1480		1510		2		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	43600		45100		3		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	13.5	J	13.1	J	3		P
Zinc	ug/L	20	35.7		32.4		10		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Matrix: Water **Sample ID:** P4549-04MS **Client ID:** TT-069-IDWGW-20241024MSD

Percent Solids for Sample: NA **Duplicate ID** P4549-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	19900		19800		1		P
Antimony	ug/L	20	117		116		1		P
Arsenic	ug/L	20	343		342		0		P
Barium	ug/L	20	185		184		1		P
Beryllium	ug/L	20	85.6		86.6		1		P
Cadmium	ug/L	20	86.9		86.6		0		P
Calcium	ug/L	20	9530		9550		0		P
Chromium	ug/L	20	199		204		2		P
Cobalt	ug/L	20	98.6		98.6		0		P
Copper	ug/L	20	146		145		1		P
Iron	ug/L	20	9820		10000		2		P
Lead	ug/L	20	428		428		0		P
Magnesium	ug/L	20	4690		4730		1		P
Manganese	ug/L	20	279		280		0		P
Nickel	ug/L	20	242		241		0		P
Potassium	ug/L	20	5960		6060		2		P
Selenium	ug/L	20	824		821		0		P
Silver	ug/L	20	30.3		30.8		2		P
Sodium	ug/L	20	44500		45200		2		P
Thallium	ug/L	20	777		735		6		P
Vanadium	ug/L	20	145		145		0		P
Zinc	ug/L	20	130		131		1		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164404BS							
Aluminum	ug/L	1000	939		94	86 - 115	P
Antimony	ug/L	400	387		97	88 - 113	P
Arsenic	ug/L	400	360		90	87 - 113	P
Barium	ug/L	100	89.7		90	88 - 113	P
Beryllium	ug/L	100	93.6		94	89 - 112	P
Cadmium	ug/L	100	89.4		89	88 - 113	P
Calcium	ug/L	500	484	J	97	87 - 113	P
Chromium	ug/L	200	192		96	90 - 113	P
Cobalt	ug/L	100	95.8		96	89 - 114	P
Copper	ug/L	150	153		102	86 - 114	P
Iron	ug/L	1500	1450		97	87 - 115	P
Lead	ug/L	500	453		91	86 - 113	P
Magnesium	ug/L	1000	910	J	91	85 - 113	P
Manganese	ug/L	100	91.5		92	90 - 114	P
Nickel	ug/L	250	241		96	88 - 113	P
Potassium	ug/L	5000	4860		97	86 - 114	P
Selenium	ug/L	1000	917		92	83 - 114	P
Silver	ug/L	37.5	37.7		100	84 - 115	P
Sodium	ug/L	1500	1360		91	87 - 115	P
Thallium	ug/L	1000	884		88	85 - 114	P
Vanadium	ug/L	150	140		93	90 - 111	P
Zinc	ug/L	100	102		102	87 - 115	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164472BS							
Mercury	ug/L	4.0	3.89		97	82 - 119	CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

TT-067-IDWGW-20241024L

Lab Name: Chemtech Consulting Group **Contract:** TETR06

Lab Code: CHEM **Lb No.:** lb133167 **Lab Sample ID :** P4549-02L **SDG No.:** P4549

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.20	U	1.00	U			CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

TT-069-IDWGW-20241024L

Lab Name: Chemtech Consulting Group **Contract:** TETR06

Lab Code: CHEM **Lb No.:** lb133175 **Lab Sample ID :** P4549-04L **SDG No.:** P4549

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	13000		13500		4		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	96.5		91.8	J	5		P
Beryllium	1.11	J	1.09	J	2		P
Cadmium	0.50	J	15.0	U	100.0		P
Calcium	9080		9360		3		P
Chromium	15.1		13.5	J	11		P
Cobalt	5.18	J	5.11	J	1		P
Copper	11.2		50.0	U	100.0		P
Iron	7460		7570		1		P
Lead	16.3		30.0	U	100.0		P
Magnesium	3380		3490	J	3		P
Manganese	192		196		2		P
Nickel	9.45	J	9.77	J	3		P
Potassium	1480		5000	U	100.0		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	43600		43000		1		P
Thallium	20.0	U	100	U			P
Vanadium	13.5	J	100	U	100.0		P
Zinc	35.7		25.1	J	30		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Method:**

Case No.: P4549 **SAS No.:** P4549

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164404**						
P4549-02	TT-067-IDWGW-20241024	SAM	WATER	10/25/2024	50.0	25.0	
P4549-03	TT-068-IDWGW-20241024	SAM	WATER	10/25/2024	50.0	25.0	
P4549-04	TT-069-IDWGW-20241024	SAM	WATER	10/25/2024	50.0	25.0	
P4549-04DUP	TT-069-IDWGW-20241024DUP	DUP	WATER	10/25/2024	50.0	25.0	
P4549-04MS	TT-069-IDWGW-20241024MS	MS	WATER	10/25/2024	50.0	25.0	
P4549-04MSD	TT-069-IDWGW-20241024MSD	MSD	WATER	10/25/2024	50.0	25.0	
PB164404BL	PB164404BL	MB	WATER	10/25/2024	50.0	25.0	
PB164404BS	PB164404BS	LCS	WATER	10/25/2024	50.0	25.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Contract: TETR06 **Lab Code:** CHEM **Method:**

Case No.: P4549 **SAS No.:** P4549

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164472**						
P4549-02	TT-067-IDWGW-20241024	SAM	WATER	10/25/2024	30.0	30.0	
P4549-02DUP	TT-067-IDWGW-20241024DUP	DUP	WATER	10/25/2024	30.0	30.0	
P4549-02MS	TT-067-IDWGW-20241024MS	MS	WATER	10/25/2024	30.0	30.0	
P4549-02MSD	TT-067-IDWGW-20241024MSD	MSD	WATER	10/25/2024	30.0	30.0	
P4549-03	TT-068-IDWGW-20241024	SAM	WATER	10/25/2024	30.0	30.0	
P4549-04	TT-069-IDWGW-20241024	SAM	WATER	10/25/2024	30.0	30.0	
PB164472BL	PB164472BL	MB	WATER	10/25/2024	30.0	30.0	
PB164472BS	PB164472BS	LCS	WATER	10/25/2024	30.0	30.0	

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metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: CHEM **Case no.:** P4549 **Sas no.:** P4549 **Sdg no.:** P4549

Instrument id number: **Method:** **Run number:** LB133167

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1044	HG
S0.2	S0.2	1	1051	HG
S2.5	S2.5	1	1053	HG
S5	S5	1	1056	HG
S7.5	S7.5	1	1101	HG
S10	S10	1	1105	HG
ICV55	ICV55	1	1109	HG
ICB55	ICB55	1	1114	HG
CCV79	CCV79	1	1116	HG
CCB79	CCB79	1	1121	HG
CRA	CRA	1	1123	HG
PB164472BL	PB164472BL	1	1132	HG
PB164472BS	PB164472BS	1	1135	HG
P4549-02	TT-067-IDWGW-20241024	1	1137	HG
P4549-02DUP	TT-067-IDWGW-20241024DUP	1	1139	HG
P4549-02MS	TT-067-IDWGW-20241024MS	1	1142	HG
P4549-02MSD	TT-067-IDWGW-20241024MSD	1	1144	HG
P4549-03	TT-068-IDWGW-20241024	1	1146	HG
CCV80	CCV80	1	1148	HG
CCB80	CCB80	1	1153	HG
P4549-04	TT-069-IDWGW-20241024	1	1156	HG
P4549-02L	TT-067-IDWGW-20241024L	5	1205	HG
CCV81	CCV81	1	1209	HG
CCB81	CCB81	1	1214	HG

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metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: CHEM **Case no.:** P4549 **Sas no.:** P4549 **Sdg no.:** P4549

Instrument id number: **Method:** **Run number:** LB133175

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1158	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1203	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1207	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1211	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1216	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1220	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1257	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1304	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1308	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1312	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1316	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1321	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1335	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1339	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4549-02	TT-067-IDWGW-20241024	1	1344	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4549-03	TT-068-IDWGW-20241024	1	1348	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4549-04	TT-069-IDWGW-20241024	1	1352	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4549-04DUP	TT-069-IDWGW-20241024DUP	1	1357	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4549-04L	TT-069-IDWGW-20241024L	5	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4549-04MS	TT-069-IDWGW-20241024MS	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4549-04MSD	TT-069-IDWGW-20241024MSD	1	1409	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4549-04A	TT-069-IDWGW-20241024A	1	1413	Ag,As,Be,Cd,Mg,Mn,Pb,Sb,Se,Tl,V
PB164404BL	PB164404BL	1	1417	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164404BS	PB164404BS	1	1421	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1425	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1430	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1515	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1520	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1606	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1610	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1657	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1701	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1750	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1754	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1843	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1847	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	1933	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	1937	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2026	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	2121	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc. **Contract:** TETR06

Lab code: CHEM **Case no.:** P4549 **Sas no.:** P4549 **Sdg no.:** P4549

Instrument id number: **Method:** **Run number:** LB133175

Start date: 10/28/2024 **End date:** 10/28/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB10	CCB10	1	2125	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV11	CCV11	1	2138	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	2143	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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LAB CHRONICLE

OrderID:	P4549	**OrderDate:**	10/24/2024 4:00:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4549-02	**TT-067-IDWGW-2024 1024**	**WATER**			**10/24/24 14:00**			**10/24/24**
			pH	9040C			10/25/24 10:20	
P4549-03	**TT-068-IDWGW-2024 1024**	**WATER**			**10/24/24 14:05**			**10/24/24**
			pH	9040C			10/25/24 10:25	
P4549-04	**TT-069-IDWGW-2024 1024**	**WATER**			**10/24/24 14:10**			**10/24/24**
			pH	9040C			10/25/24 10:30	

SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24 14:00
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-067-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.97	H	1	0	0	0	pH		10/25/24 10:20	9040C

Comments: pH result reported at temperature 20.7 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24 14:05
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-068-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	7.32	H	1	0	0	0	pH		10/25/24 10:25	9040C

Comments: pH result reported at temperature 20.6 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/24/24 14:10
Project:	CTO WE13	Date Received:	10/24/24
Client Sample ID:	TT-069-IDWGW-20241024	SDG No.:	P4549
Lab Sample ID:	P4549-04	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	7.28	H	1	0	0	0	pH		10/25/24 10:30	9040C

Comments: pH result reported at temperature 20.2 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Fax : 908 789 8922

Initial and Continuing Calibration Verification

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549

Project: CTO WE13 **RunNo.:** LB133123

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.00	7	100	90-110	10/25/2024
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	10/25/2024
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	10/25/2024

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Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.
SDG No.: P4549
Project: CTO WE13
Sample ID: P4549-04
Client ID: TT-069-IDWGW-20241024DUP
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	7.28		7.29		1	0.14		10/25/2024

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: P4549

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: Tetra Tech	PROJECT NAME: NWIRP Bethpage	BILL TO: SEE CONTRACT PO#
ADDRESS: 4433 Corporation Ln, Suite 300	PROJECT #: 112G08005-WE13 LOCATION: GW IDW	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:_____48hr_____ DAYS*
HARD COPY:_____48hr_____DAYS*
EDD_____48hr_____DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD Format_____
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other_____

ANALYSIS

1	2	3	4	5	6	7	8	9
VOC's (EPA 624)	pH	Total Metals	PCB's (EPA 8082)					

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A		B							<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
1.	TT-TB-20241024	QA		X	10/24/24	10:00	2	2									Trip Blank
2.	TT-067-IDWGW-20241024	AQ		X	10/24/24	14:00	5	2	1	1	1						
3.	TT-068-IDWGW-20241024	AQ		X	10/24/24	14:05	5	2	1	1	1						
4.	TT-069-IDWGW-20241024	AQ		X	10/24/24	14:10	5	2	1	1	1						
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER 1.	DATE/TIME 10/24/24 15:00	RECEIVED BY 1. 15:30 10.24.24
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.
RELINQUISHED BY 3.	DATE/TIME 1905 10-24-2024	RECEIVED FOR LAB BY

Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 3.0°C
MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in Cooler?: Yes
Comments:
48hr TAT - CTO-WE13 Drilling GW IDW Sampling - Frac Tank #3291 (TT-050)

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 : P4549 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 10/24/2024 4:00:00 PM
Project Name : CTO WE13
Receive DateTime : 10/24/2024 ~~12:00:00~~ 19:05 AM
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
P4549-01	TT-TB-20241024	Water	10/24/2024	10:00					
					VOCMS Group4		624.1		2 Bus. Days
P4549-02	TT-067-IDWGW-20241024	Water	10/24/2024	14:00					
					VOCMS Group4		624.1		2 Bus. Days
P4549-03	TT-068-IDWGW-20241024	Water	10/24/2024	14:05					
					VOCMS Group4		624.1		2 Bus. Days
P4549-04	TT-069-IDWGW-20241024	Water	10/24/2024	14:10					
					VOCMS Group4		624.1		2 Bus. Days

Relinguished By :
Date / Time : 10/25/24 0900

Received By :
Date / Time : 10/25/24 0900 Rgh 5

Storage Area : VOA Refridgerator Room