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

ANALYTICAL RESULTS 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 : P5283

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

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Cover Page

Order ID : P5283

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
P5283-01	TT-TB-20241213
P5283-02	TT-RW10A-IDWGW-20241213

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: 12/26/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager : Ernie Wu
Chemtech Project # P5283
Test Name: VOCMS Group4

A. Number of Samples and Date of Receipt:
2 Water samples were received on 12/13/2024.

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.

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."
The SDG P5283 is logged for VOCMS group4. Lab not certified for Hexachloroethane, Iodomethane, Methyl Methacrylate and tert-Butylbenzene compounds for 624.1 method.

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

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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 # P5283
Test Name: PCB

A. Number of Samples and Date of Receipt:
2 Water samples were received on 12/13/2024.

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.
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 .

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.

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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 # P5283
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
2 Water samples were received on 12/13/2024.

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 (220-2-TRANS-WATERMS) analysis met criteria for all samples except for Potassium due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (220-2-TRANS-WATERMSD) analysis met criteria for all samples except for Potassium 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 (220-2-TRANS-WATERL) met criteria for all samples except for Aluminum due to sample matrix interference.

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 # P5283
Test Name: pH

A. Number of Samples and Date of Receipt:
2 Water samples were received on 12/13/2024.

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-RW10A-IDWGW-20241213 of pH as sample 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_____

284 Sheffield Street, Mountainside NJ 07092
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 #: P5283

	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:** 12/26/2024

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LAB CHRONICLE

OrderID:	P5283	**OrderDate:**	12/13/2024 1:07:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5283-01	**TT-TB-20241213**	**Water**			**12/13/24**			**12/13/24**
			VOCMS Group4	624.1			12/16/24	
P5283-02	**TT-RW10A-IDWGW-20241213**	**Water**			**12/13/24**			**12/13/24**
			VOCMS Group4	624.1			12/16/24	

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Hit Summary Sheet
SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

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

0

Total Voc :

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/13/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-TB-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-01	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
VN085214.D	1		12/16/24 13:09	VN121624

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:	12/13/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-TB-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-01	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
VN085214.D	1		12/16/24 13:09	VN121624

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:	12/13/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-TB-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-01	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
VN085214.D	1		12/16/24 13:09	VN121624

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	32.3		91 - 110	108%	SPK: 30
2037-26-5	Toluene-d8	27.9		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.7		63 - 112	82%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	24800	7.812			
540-36-3	1,4-Difluorobenzene	130000	9.1			
3114-55-4	Chlorobenzene-d5	118000	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:	12/13/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-RW10A-IDWGW-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-02	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
VN085215.D	1		12/16/24 13:33	VN121624

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:	12/13/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-RW10A-IDWGW-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-02	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
VN085215.D	1		12/16/24 13:33	VN121624

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:	12/13/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-RW10A-IDWGW-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-02	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
VN085215.D	1		12/16/24 13:33	VN121624

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	28.7		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	24.3		63 - 112	81%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	25300	7.812			
540-36-3	1,4-Difluorobenzene	123000	9.1			
3114-55-4	Chlorobenzene-d5	107000	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.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5283-01	TT-TB-20241213	1,2-Dichloroethane-d4	30	32.4	108	91	110
		Toluene-d8	30	27.9	93	91	112
		4-Bromofluorobenzene	30	24.8	82	63	112
P5283-02	TT-RW10A-IDWGW-20241213	1,2-Dichloroethane-d4	30	30.0	100	91	110
		Toluene-d8	30	28.7	96	91	112
		4-Bromofluorobenzene	30	24.3	81	63	112
VN1216WBL01	VN1216WBL01	1,2-Dichloroethane-d4	30	31.1	104	91	110
		Toluene-d8	30	29.2	97	91	112
		4-Bromofluorobenzene	30	25.2	84	63	112
VN1216WBS01	VN1216WBS01	1,2-Dichloroethane-d4	30	30.0	100	91	110
		Toluene-d8	30	29.7	99	91	112
		4-Bromofluorobenzene	30	29.7	99	63	112
VN1216WBSD0	VN1216WBSD01	1,2-Dichloroethane-d4	30	30.4	101	91	110
		Toluene-d8	30	29.0	97	91	112
		4-Bromofluorobenzene	30	30.0	100	63	112

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1 **Datafile :** VN085208.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1216WBS01	Dichlorodifluoromethane	20	20.1	ug/L	101			72	118	
	Chloromethane	20	19.6	ug/L	98			1	205	
	Vinyl Chloride	20	19.3	ug/L	97			5	195	
	Bromomethane	20	20.0	ug/L	100			15	185	
	Chloroethane	20	19.9	ug/L	100			40	160	
	Trichlorofluoromethane	20	19.9	ug/L	100			50	150	
	1,1,2-Trichlorotrifluoroethane	20	19.0	ug/L	95			64	127	
	1,1-Dichloroethene	20	19.7	ug/L	99			50	150	
	Acrolein	100	110	ug/L	110			60	140	
	Acrylonitrile	100	93.1	ug/L	93			60	140	
	Acetone	100	100	ug/L	100			41	148	
	Carbon disulfide	20	19.1	ug/L	96			76	107	
	Methyl tert-butyl Ether	20	19.9	ug/L	100			82	114	
	Methyl Acetate	20	19.0	ug/L	95			63	139	
	Methylene Chloride	20	18.5	ug/L	93			60	140	
	trans-1,2-Dichloroethene	20	19.5	ug/L	98			70	130	
	1,1-Dichloroethane	20	19.6	ug/L	98			70	130	
	Cyclohexane	20	19.3	ug/L	97			79	113	
	2-Butanone	100	92.6	ug/L	93			69	129	
	Carbon Tetrachloride	20	19.0	ug/L	95			70	130	
	2,2-Dichloropropane	20	18.7	ug/L	94			62	139	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			81	112	
	Chloroform	20	19.8	ug/L	99			70	135	
	1,1,1-Trichloroethane	20	18.6	ug/L	93			70	130	
	Methylcyclohexane	20	18.7	ug/L	94			79	112	
	1,1-Dichloropropene	20	18.4	ug/L	92			70	139	
	Benzene	20	18.4	ug/L	92			65	135	
	1,2-Dichloroethane	20	18.3	ug/L	92			70	130	
	Trichloroethene	20	18.5	ug/L	93			65	135	
	1,2-Dichloropropane	20	18.5	ug/L	93			35	165	
	Dibromomethane	20	18.7	ug/L	94			72	138	
	Bromodichloromethane	20	18.3	ug/L	92			65	135	
	4-Methyl-2-Pentanone	100	90.8	ug/L	91			73	131	
	Toluene	20	18.9	ug/L	95			70	130	
	t-1,3-Dichloropropene	20	18.5	ug/L	93			50	150	
	cis-1,3-Dichloropropene	20	18.5	ug/L	93			25	175	
	1,1,2-Trichloroethane	20	18.0	ug/L	90			70	130	
	1,3-Dichloropropane	20	18.2	ug/L	91			70	141	
	2-Hexanone	100	89.7	ug/L	90			72	128	
	Dibromochloromethane	20	18.7	ug/L	94			70	135	
	1,2-Dibromoethane	20	18.3	ug/L	92			86	114	
	Tetrachloroethene	20	19.1	ug/L	96			70	130	
	Chlorobenzene	20	18.7	ug/L	94			65	135	
	1,1,1,2-Tetrachloroethane	20	18.6	ug/L	93			63	138	
	Hexachloroethane	20	18.8	ug/L	94			70	130	
	Ethyl Benzene	20	18.7	ug/L	94			60	140	
	m/p-Xylenes	40	38.0	ug/L	95			87	111	
	o-Xylene	20	19.2	ug/L	96			87	111	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1 **Datafile :** VN085208.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1216WBS01	Styrene	20	18.7	ug/L	94			85	106	
	Bromoform	20	17.9	ug/L	90			70	130	
	Isopropylbenzene	20	19.3	ug/L	97			86	112	
	1,1,2,2-Tetrachloroethane	20	18.6	ug/L	93			60	140	
	1,2,3-Trichloropropane	20	15.3	ug/L	77			61	148	
	Bromobenzene	20	18.7	ug/L	94			59	142	
	N-propylbenzene	20	18.6	ug/L	93			67	139	
	2-Chlorotoluene	20	19.0	ug/L	95			66	138	
	1,3,5-Trimethylbenzene	20	19.3	ug/L	97			66	139	
	4-Chlorotoluene	20	18.9	ug/L	95			66	141	
	tert-Butylbenzene	20	18.9	ug/L	95			56	140	
	1,2,4-Trimethylbenzene	20	19.5	ug/L	98			63	142	
	Sec-butylbenzene	20	19.0	ug/L	95			63	144	
	p-Isopropyltoluene	20	19.3	ug/L	97			57	147	
	1,3-Dichlorobenzene	20	18.6	ug/L	93			70	130	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			65	135	
	n-Butylbenzene	20	19.1	ug/L	96			49	157	
	1,2-Dichlorobenzene	20	18.7	ug/L	94			65	135	
	1,2-Dibromo-3-Chloropropane	20	18.1	ug/L	91			69	122	
	1,2,4-Trichlorobenzene	20	19.5	ug/L	98			61	118	
	Hexachlorobutadiene	20	20.3	ug/L	102			16	187	
	Naphthalene	20	18.9	ug/L	95			45	152	
	1,2,3-Trichlorobenzene	20	19.5	ug/L	98			38	159	
	Methyl iodide	20	17.6	ug/L	88			70	130	
	Methyl methacrylate	20	18.1	ug/L	91			70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1 **Datafile :** VN085209.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1216WBSD01	Dichlorodifluoromethane	20	20.1	ug/L	101	0		72	118	20
	Chloromethane	20	19.1	ug/L	96	2		1	205	20
	Vinyl Chloride	20	20.9	ug/L	104	7		5	195	20
	Bromomethane	20	20.0	ug/L	100	0		15	185	20
	Chloroethane	20	21.2	ug/L	106	6		40	160	20
	Trichlorofluoromethane	20	20.6	ug/L	103	3		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100	5		64	127	20
	1,1-Dichloroethene	20	19.9	ug/L	100	1		50	150	20
	Acrolein	100	110	ug/L	110	0		60	140	20
	Acrylonitrile	100	100	ug/L	100	7		60	140	20
	Acetone	100	120	ug/L	120	18		41	148	20
	Carbon disulfide	20	19.4	ug/L	97	1		76	107	20
	Methyl tert-butyl Ether	20	21.4	ug/L	107	7		82	114	20
	Methyl Acetate	20	21.8	ug/L	109	14		63	139	20
	Methylene Chloride	20	20.0	ug/L	100	7		60	140	20
	trans-1,2-Dichloroethene	20	19.4	ug/L	97	1		70	130	20
	1,1-Dichloroethane	20	20.3	ug/L	102	4		70	130	20
	Cyclohexane	20	19.6	ug/L	98	1		79	113	20
	2-Butanone	100	110	ug/L	110	17		69	129	20
	Carbon Tetrachloride	20	19.4	ug/L	97	2		70	130	20
	2,2-Dichloropropane	20	19.7	ug/L	99	5		62	139	20
	cis-1,2-Dichloroethene	20	20.6	ug/L	103	5		81	112	20
	Chloroform	20	20.2	ug/L	101	2		70	135	20
	1,1,1-Trichloroethane	20	19.3	ug/L	97	4		70	130	20
	Methylcyclohexane	20	19.0	ug/L	95	1		79	112	20
	1,1-Dichloropropene	20	19.7	ug/L	99	7		70	139	20
	Benzene	20	19.5	ug/L	98	6		65	135	20
	1,2-Dichloroethane	20	19.6	ug/L	98	6		70	130	20
	Trichloroethene	20	19.5	ug/L	98	5		65	135	20
	1,2-Dichloropropane	20	19.2	ug/L	96	3		35	165	20
	Dibromomethane	20	20.0	ug/L	100	6		72	138	20
	Bromodichloromethane	20	20.0	ug/L	100	8		65	135	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	9		73	131	20
	Toluene	20	19.5	ug/L	98	3		70	130	20
	t-1,3-Dichloropropene	20	19.9	ug/L	100	7		50	150	20
	cis-1,3-Dichloropropene	20	19.8	ug/L	99	6		25	175	20
	1,1,2-Trichloroethane	20	19.7	ug/L	99	10		70	130	20
	1,3-Dichloropropane	20	20.2	ug/L	101	10		70	141	20
	2-Hexanone	100	100	ug/L	100	11		72	128	20
	Dibromochloromethane	20	19.8	ug/L	99	5		70	135	20
	1,2-Dibromoethane	20	19.7	ug/L	99	7		86	114	20
	Tetrachloroethene	20	19.8	ug/L	99	3		70	130	20
	Chlorobenzene	20	19.7	ug/L	99	5		65	135	20
	1,1,1,2-Tetrachloroethane	20	20.6	ug/L	103	10		63	138	20
	Hexachloroethane	20	19.6	ug/L	98	4		70	130	20
	Ethyl Benzene	20	19.6	ug/L	98	4		60	140	20
	m/p-Xylenes	40	39.6	ug/L	99	4		87	111	20
	o-Xylene	20	20.3	ug/L	102	6		87	111	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: SW624.1 **Datafile :** VN085209.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1216WBSD01	Styrene	20	20.1	ug/L	101	7		85	106	20
	Bromoform	20	19.8	ug/L	99	10		70	130	20
	Isopropylbenzene	20	19.9	ug/L	100	3		86	112	20
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102	9		60	140	20
	1,2,3-Trichloropropane	20	16.7	ug/L	84	9		61	148	20
	Bromobenzene	20	20.1	ug/L	101	7		59	142	20
	N-propylbenzene	20	19.2	ug/L	96	3		67	139	20
	2-Chlorotoluene	20	19.9	ug/L	100	5		66	138	20
	1,3,5-Trimethylbenzene	20	19.6	ug/L	98	1		66	139	20
	4-Chlorotoluene	20	19.5	ug/L	98	3		66	141	20
	tert-Butylbenzene	20	19.8	ug/L	99	4		56	140	20
	1,2,4-Trimethylbenzene	20	20.1	ug/L	101	3		63	142	20
	Sec-butylbenzene	20	19.8	ug/L	99	4		63	144	20
	p-Isopropyltoluene	20	19.8	ug/L	99	2		57	147	20
	1,3-Dichlorobenzene	20	19.6	ug/L	98	5		70	130	20
	1,4-Dichlorobenzene	20	20.0	ug/L	100	5		65	135	20
	n-Butylbenzene	20	19.3	ug/L	97	1		49	157	20
	1,2-Dichlorobenzene	20	20.2	ug/L	101	7		65	135	20
	1,2-Dibromo-3-Chloropropane	20	21.6	ug/L	108	17		69	122	20
	1,2,4-Trichlorobenzene	20	20.6	ug/L	103	5		61	118	20
	Hexachlorobutadiene	20	20.6	ug/L	103	1		16	187	20
	Naphthalene	20	20.6	ug/L	103	8		45	152	20
	1,2,3-Trichlorobenzene	20	20.6	ug/L	103	5		38	159	20
	Methyl iodide	20	18.3	ug/L	92	4		70	130	20
	Methyl methacrylate	20	19.9	ug/L	100	9		70	130	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1216WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG NO.: P5283

Lab File ID: VN085210.D Lab Sample ID: VN1216WBL01

Date Analyzed: 12/16/2024 Time Analyzed: 11:21

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
VN1216WBS01	VN1216WBS01	VN085208.D	12/16/2024
VN1216WBSD01	VN1216WBSD01	VN085209.D	12/16/2024
TT-TB-20241213	P5283-01	VN085214.D	12/16/2024
TT-RW10A-IDWGW-20241213	P5283-02	VN085215.D	12/16/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG NO.: P5283

Lab File ID: VN085116.D BFB Injection Date: 12/06/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:14

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	51.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	77.9
175	5.0 - 9.0% of mass 174	5.9 (7.6) 1
176	95.0 - 101.0% of mass 174	74.3 (95.4) 1
177	5.0 - 9.0% of mass 176	4.5 (6.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VN085117.D	12/06/2024	10:02
VSTDICCC020	VSTDICCC020	VN085118.D	12/06/2024	10:26
VSTDICC050	VSTDICC050	VN085119.D	12/06/2024	10:49
VSTDICC100	VSTDICC100	VN085120.D	12/06/2024	11:13
VSTDICC150	VSTDICC150	VN085121.D	12/06/2024	11:37

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG NO.: P5283

Lab File ID: VN085206.D BFB Injection Date: 12/16/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:58

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.9
75	30.0 - 60.0% of mass 95	52.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	78.8
175	5.0 - 9.0% of mass 174	6.3 (8) 1
176	95.0 - 101.0% of mass 174	76.5 (97.1) 1
177	5.0 - 9.0% of mass 176	5.3 (6.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN085207.D	12/16/2024	09:42
VN1216WBS01	VN1216WBS01	VN085208.D	12/16/2024	10:19
VN1216WBSD01	VN1216WBSD01	VN085209.D	12/16/2024	10:57
VN1216WBL01	VN1216WBL01	VN085210.D	12/16/2024	11:21
TT-TB-20241213	P5283-01	VN085214.D	12/16/2024	13:09
TT-RW10A-IDWGW-20241213	P5283-02	VN085215.D	12/16/2024	13:33
VSTDCCC020EC	VSTDCCC020	VN085216.D	12/16/2024	16:33

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG NO.: P5283

Lab File ID: VN085207.D Date Analyzed: 12/16/2024

Instrument ID: MSVOA_N Time Analyzed: 09:42

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	33412	7.81	185962	9.09	170233	11.87
UPPER LIMIT	66824	8.312	371924	9.594	340466	12.365
LOWER LIMIT	16706	7.312	92981	8.594	85116.5	11.365
EPA SAMPLE NO.						
TT-TB-20241213	24766	7.81	129916	9.10	118401	11.87
TT-RW10A-IDWGW-20241213	25309	7.81	122588	9.10	107111	11.87
VN1216WBL01	28325	7.82	149220	9.10	129681	11.87
VN1216WBS01	30825	7.81	169823	9.10	155663	11.87
VN1216WBSD01	29855	7.81	161867	9.10	148673	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:	VN1216WBL01	SDG No.:	P5283
Lab Sample ID:	VN1216WBL01	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
VN085210.D	1		12/16/24 11:21	VN121624

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:	VN1216WBL01	SDG No.:	P5283
Lab Sample ID:	VN1216WBL01	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
VN085210.D	1		12/16/24 11:21	VN121624

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:	VN1216WBL01	SDG No.:	P5283
Lab Sample ID:	VN1216WBL01	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
VN085210.D	1		12/16/24 11:21	VN121624

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	31.1		91 - 110	104%	SPK: 30
2037-26-5	Toluene-d8	29.2		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.2		63 - 112	84%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	28300	7.818			
540-36-3	1,4-Difluorobenzene	149000	9.1			
3114-55-4	Chlorobenzene-d5	130000	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:	VN1216WBS01	SDG No.:	P5283
Lab Sample ID:	VN1216WBS01	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
VN085208.D	1		12/16/24 10:19	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		1.20	5.00	ug/L
74-87-3	Chloromethane	19.6		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	19.3		1.20	5.00	ug/L
74-83-9	Bromomethane	20.0		1.40	5.00	ug/L
75-00-3	Chloroethane	19.9		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		1.00	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.0		1.10	5.00	ug/L
75-35-4	1,1-Dichloroethene	19.7		1.10	5.00	ug/L
107-02-8	Acrolein	110		9.30	25.0	ug/L
107-13-1	Acrylonitrile	93.1		3.70	25.0	ug/L
67-64-1	Acetone	100		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	19.1		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	19.9		0.83	5.00	ug/L
79-20-9	Methyl Acetate	19.0		1.20	5.00	ug/L
75-09-2	Methylene Chloride	18.5		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.5		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	19.6		0.81	5.00	ug/L
110-82-7	Cyclohexane	19.3		1.00	5.00	ug/L
78-93-3	2-Butanone	92.6		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.0		0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	18.7		1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.90	5.00	ug/L
67-66-3	Chloroform	19.8		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	18.7		0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	18.4		0.75	5.00	ug/L
71-43-2	Benzene	18.4		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.75	5.00	ug/L
79-01-6	Trichloroethene	18.5		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	18.5		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:	VN1216WBS01	SDG No.:	P5283
Lab Sample ID:	VN1216WBS01	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
VN085208.D	1		12/16/24 10:19	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	18.7		0.70	5.00	ug/L
75-27-4	Bromodichloromethane	18.3		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	90.8		4.20	25.0	ug/L
108-88-3	Toluene	18.9		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.5		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.5		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.0		0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	18.2		0.68	5.00	ug/L
591-78-6	2-Hexanone	89.7		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	18.7		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	18.3		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	19.1		0.94	5.00	ug/L
108-90-7	Chlorobenzene	18.7		0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	18.6		0.91	5.00	ug/L
67-72-1	Hexachloroethane	18.8		0.91	5.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	38.0		1.70	10.0	ug/L
95-47-6	o-Xylene	19.2		0.82	5.00	ug/L
100-42-5	Styrene	18.7		0.80	5.00	ug/L
75-25-2	Bromoform	17.9		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	19.3		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.6		0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	15.3		1.70	5.00	ug/L
108-86-1	Bromobenzene	18.7		0.69	5.00	ug/L
103-65-1	n-propylbenzene	18.6		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	19.3		0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	18.9		0.82	5.00	ug/L
98-06-6	tert-butylbenzene	18.9		0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.5		0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	19.0		0.77	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN1216WBS01	SDG No.:	P5283
Lab Sample ID:	VN1216WBS01	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
VN085208.D	1		12/16/24 10:19	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	19.3		0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.6		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.95	5.00	ug/L
104-51-8	n-Butylbenzene	19.1		0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.5		1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	20.3		1.10	5.00	ug/L
91-20-3	Naphthalene	18.9		1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.5		1.40	5.00	ug/L
74-88-4	Methyl Iodide	17.6		0.94	5.00	ug/L
80-62-6	Methyl methacrylate	18.1		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	29.7		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.7		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	30800	7.806			
540-36-3	1,4-Difluorobenzene	170000	9.1			
3114-55-4	Chlorobenzene-d5	156000	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

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:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN1216WBSD01	SDG No.:	P5283
Lab Sample ID:	VN1216WBSD01	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
VN085209.D	1		12/16/24 10:57	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		1.20	5.00	ug/L
74-87-3	Chloromethane	19.1		1.20	5.00	ug/L
75-01-4	Vinyl Chloride	20.9		1.20	5.00	ug/L
74-83-9	Bromomethane	20.0		1.40	5.00	ug/L
75-00-3	Chloroethane	21.2		2.90	5.00	ug/L
75-69-4	Trichlorofluoromethane	20.6		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	19.9		1.10	5.00	ug/L
107-02-8	Acrolein	110		9.30	25.0	ug/L
107-13-1	Acrylonitrile	100		3.70	25.0	ug/L
67-64-1	Acetone	120		4.90	25.0	ug/L
75-15-0	Carbon Disulfide	19.4		0.93	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	21.4		0.83	5.00	ug/L
79-20-9	Methyl Acetate	21.8		1.20	5.00	ug/L
75-09-2	Methylene Chloride	20.0		1.20	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.4		0.95	5.00	ug/L
75-34-3	1,1-Dichloroethane	20.3		0.81	5.00	ug/L
110-82-7	Cyclohexane	19.6		1.00	5.00	ug/L
78-93-3	2-Butanone	110		3.60	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.4		0.91	5.00	ug/L
594-20-7	2,2-Dichloropropane	19.7		1.10	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.6		0.90	5.00	ug/L
67-66-3	Chloroform	20.2		0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.3		0.79	5.00	ug/L
108-87-2	Methylcyclohexane	19.0		0.89	5.00	ug/L
563-58-6	1,1-Dichloropropene	19.7		0.75	5.00	ug/L
71-43-2	Benzene	19.5		0.69	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.6		0.75	5.00	ug/L
79-01-6	Trichloroethene	19.5		0.77	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.2		0.65	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	VN1216WBSD01	SDG No.:	P5283
Lab Sample ID:	VN1216WBSD01	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
VN085209.D	1		12/16/24 10:57	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
74-95-3	Dibromomethane	20.0		0.70	5.00	ug/L
75-27-4	Bromodichloromethane	20.0		0.81	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		4.20	25.0	ug/L
108-88-3	Toluene	19.5		0.72	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.9		0.79	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.8		0.83	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.68	5.00	ug/L
142-28-9	1,3-Dichloropropane	20.2		0.68	5.00	ug/L
591-78-6	2-Hexanone	100		3.90	25.0	ug/L
124-48-1	Dibromochloromethane	19.8		0.72	5.00	ug/L
106-93-4	1,2-Dibromoethane	19.7		0.78	5.00	ug/L
127-18-4	Tetrachloroethene	19.8		0.94	5.00	ug/L
108-90-7	Chlorobenzene	19.7		0.67	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	20.6		0.91	5.00	ug/L
67-72-1	Hexachloroethane	19.6		0.91	5.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.73	5.00	ug/L
179601-23-1	m/p-Xylenes	39.6		1.70	10.0	ug/L
95-47-6	o-Xylene	20.3		0.82	5.00	ug/L
100-42-5	Styrene	20.1		0.80	5.00	ug/L
75-25-2	Bromoform	19.8		1.00	5.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.85	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.60	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	16.7		1.70	5.00	ug/L
108-86-1	Bromobenzene	20.1		0.69	5.00	ug/L
103-65-1	n-propylbenzene	19.2		0.80	5.00	ug/L
95-49-8	2-Chlorotoluene	19.9		0.81	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.6		0.74	5.00	ug/L
106-43-4	4-Chlorotoluene	19.5		0.82	5.00	ug/L
98-06-6	tert-butylbenzene	19.8		0.77	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.1		0.83	5.00	ug/L
135-98-8	sec-Butylbenzene	19.8		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:	VN1216WBSD01	SDG No.:	P5283
Lab Sample ID:	VN1216WBSD01	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
VN085209.D	1		12/16/24 10:57	VN121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-87-6	p-Isopropyltoluene	19.8		0.82	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.6		0.88	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.95	5.00	ug/L
104-51-8	n-Butylbenzene	19.3		0.86	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.2		0.88	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.6		0.91	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	20.6		1.10	5.00	ug/L
87-68-3	Hexachlorobutadiene	20.6		1.10	5.00	ug/L
91-20-3	Naphthalene	20.6		1.40	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	20.6		1.40	5.00	ug/L
74-88-4	Methyl Iodide	18.3		0.94	5.00	ug/L
80-62-6	Methyl methacrylate	19.9		1.00	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.4		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.0		91 - 112	97%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.0		63 - 112	100%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	29900	7.812			
540-36-3	1,4-Difluorobenzene	162000	9.1			
3114-55-4	Chlorobenzene-d5	149000	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

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.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:02 11:37

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

LAB FILE ID: RRF005 = VN085117.D RRF020 = VN085118.D RRF050 = VN085119.D
RRF100 = VN085120.D RRF150 = VN085121.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	2.072	2.467	2.334	2.565	2.563		2.400	8.6
Chloromethane	2.058	2.093	2.013	2.202	2.256		2.124	4.8
Vinyl Chloride	2.171	2.147	2.026	2.258	2.263		2.173	4.5
Bromomethane	1.578	1.334	1.261	1.364	1.361		1.380	8.6
Chloroethane	1.331	1.302	1.259	1.382	1.401		1.335	4.4
Trichlorofluoromethane	3.495	3.461	3.321	3.725	3.781		3.557	5.4
1,1,2-Trichlorotrifluoroethane	1.976	1.924	1.900	2.062	2.084		1.989	4.1
1,1-Dichloroethene	1.669	1.752	1.743	1.978	1.993		1.827	8.1
Acrolein	0.309	0.255	0.299	0.338	0.365		0.313	13.2
Acrylonitrile	0.809	0.837	0.858	0.977	0.994		0.895	9.4
Acetone	0.217	0.228	0.233	0.270	0.264		0.243	9.6
Carbon Disulfide	5.377	5.368	5.062	5.709	5.789		5.461	5.4
Methyl tert-Butyl Ether	4.744	5.454	5.524	6.311	6.507		5.708	12.5
Methyl Acetate	2.041	2.062	2.033	2.305	2.337		2.155	7
Methylene Chloride	2.198	2.012	1.927	2.127	2.100		2.073	5.1
trans-1,2-Dichloroethene	1.876	1.799	1.782	2.012	2.027		1.899	6.1
1,1-Dichloroethane	3.621	3.416	3.269	3.705	3.693		3.541	5.4
Cyclohexane	0.458	0.563	0.563	0.591	0.584		0.552	9.8
2-Butanone	0.207	0.217	0.218	0.235	0.234		0.222	5.4
Carbon Tetrachloride	0.619	0.587	0.566	0.591	0.593		0.591	3.2
2,2-Dichloropropane	0.624	0.608	0.602	0.636	0.634		0.621	2.5
cis-1,2-Dichloroethene	2.011	2.125	2.092	2.320	2.366		2.183	7
Chloroform	3.779	3.635	3.508	3.813	3.814		3.710	3.6
1,1,1-Trichloroethane	0.683	0.665	0.619	0.657	0.652		0.655	3.6
Methylcyclohexane	0.453	0.481	0.526	0.579	0.593		0.526	11.5
1,1-Dichloropropene	0.458	0.482	0.468	0.506	0.506		0.484	4.5
Benzene	1.581	1.501	1.456	1.543	1.523		1.521	3.1
1,2-Dichloroethane	0.564	0.505	0.491	0.518	0.510		0.518	5.4
Trichloroethene	0.367	0.356	0.344	0.373	0.371		0.362	3.4
1,2-Dichloropropane	0.388	0.370	0.351	0.366	0.368		0.368	3.7

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

Alliance TECHNICAL GROUP
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:02 11:37

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

LAB FILE ID: RRF005 = VN085117.D RRF020 = VN085118.D RRF050 = VN085119.D
RRF100 = VN085120.D RRF150 = VN085121.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Dibromomethane	0.274	0.266	0.253	0.263	0.264		0.264	2.8
Bromodichloromethane	0.596	0.554	0.541	0.565	0.568		0.565	3.6
4-Methyl-2-Pentanone	0.431	0.494	0.483	0.524	0.516		0.490	7.5
Toluene	1.780	1.713	1.680	1.799	1.777		1.750	2.9
t-1,3-Dichloropropene	0.518	0.517	0.541	0.592	0.603		0.554	7.4
cis-1,3-Dichloropropene	0.581	0.590	0.583	0.629	0.636		0.604	4.4
1,1,2-Trichloroethane	0.387	0.355	0.336	0.353	0.349		0.356	5.2
1,3-Dichloropropane	0.598	0.585	0.582	0.607	0.606		0.596	2
2-Hexanone	0.314	0.376	0.371	0.402	0.391		0.371	9.2
Dibromochloromethane	0.455	0.426	0.413	0.438	0.438		0.434	3.7
1,2-Dibromoethane	0.358	0.348	0.348	0.371	0.369		0.359	3.1
Tetrachloroethene	0.407	0.358	0.342	0.359	0.351		0.363	7
Chlorobenzene	1.074	1.056	1.037	1.121	1.113		1.080	3.3
1,1,1,2-Tetrachloroethane	0.432	0.384	0.384	0.413	0.404		0.403	5
Hexachloroethane	0.273	0.275	0.271	0.304	0.304		0.285	6
Ethyl Benzene	1.626	1.739	1.845	2.032	2.041		1.857	9.8
m/p-Xylenes	0.601	0.713	0.706	0.775	0.775		0.714	10
o-Xylene	0.561	0.648	0.681	0.734	0.729		0.671	10.5
Styrene	0.892	1.097	1.164	1.270	1.266		1.138	13.7
Bromoform	0.294	0.275	0.282	0.301	0.302		0.291	4.1
Isopropylbenzene	1.409	1.656	1.747	1.932	1.903		1.730	12.3
1,1,2,2-Tetrachloroethane	0.551	0.532	0.503	0.526	0.521		0.526	3.3
1,2,3-Trichloropropane	0.582	0.533	0.473	0.510	0.502		0.520	7.9
Bromobenzene	0.411	0.420	0.422	0.462	0.451		0.433	5.1
n-propylbenzene	1.744	2.020	2.082	2.286	2.264		2.079	10.6
2-Chlorotoluene	1.143	1.271	1.266	1.378	1.371		1.286	7.5
1,3,5-Trimethylbenzene	1.241	1.441	1.488	1.630	1.609		1.482	10.6
4-Chlorotoluene	1.212	1.262	1.274	1.399	1.378		1.305	6.1
tert-butylbenzene	0.978	1.173	1.226	1.368	1.340		1.217	12.8
1,2,4-Trimethylbenzene	1.151	1.429	1.499	1.644	1.596		1.464	13.2

* 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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Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:02 11:37

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

LAB FILE ID: RRF005 = VN085117.D RRF020 = VN085118.D RRF050 = VN085119.D
RRF100 = VN085120.D RRF150 = VN085121.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
sec-Butylbenzene	1.421	1.669	1.727	1.927	1.901		1.729	11.8
p-Isopropyltoluene	1.090	1.372	1.460	1.626	1.620		1.434	15.4
1,3-Dichlorobenzene	0.779	0.765	0.772	0.842	0.816		0.795	4.1
1,4-Dichlorobenzene	0.725	0.742	0.759	0.829	0.818		0.775	6
n-Butylbenzene	0.903	1.085	1.230	1.399	1.395		1.203	17.6
1,2-Dichlorobenzene	0.743	0.721	0.734	0.787	0.767		0.750	3.5
1,2-Dibromo-3-Chloropropane	0.095	0.103	0.101	0.112	0.116		0.105	8
1,2,4-Trichlorobenzene	0.280	0.342	0.364	0.421	0.431		0.367	16.8
Hexachlorobutadiene	0.206	0.184	0.173	0.196	0.196		0.191	6.7
Naphthalene	0.704	0.971	1.176	1.410	1.447		1.142	27.3
1,2,3-Trichlorobenzene	0.280	0.342	0.364	0.421	0.431		0.367	16.8
1,2-Dichloroethane-d4	2.462	2.393	2.263	2.370	2.414		2.380	3.1
Toluene-d8	1.462	1.443	1.392	1.372	1.367		1.407	3.1
4-Bromofluorobenzene	0.479	0.495	0.500	0.509	0.499		0.496	2.2
Methyl Iodide	2.117	2.346	2.450	2.826	2.930		2.534	13.4
Methyl methacrylate	0.299	0.343	0.346	0.382	0.388		0.352	10.1

* 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.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date/Time: 12/16/2024 09:42

Lab File ID: VN085207.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.400	2.526		5.25	
Chloromethane	2.124	2.227		4.85	
Vinyl Chloride	2.173	2.251	0.1	3.59	
Bromomethane	1.380	1.402	0.1	1.59	
Chloroethane	1.335	1.437		7.64	
Trichlorofluoromethane	3.557	3.724		4.7	
1,1,2-Trichlorotrifluoroethane	1.989	2.005		0.8	
1,1-Dichloroethene	1.827	1.847	0.1	1.1	
Acrolein	0.313	0.235		-24.92	
Acrylonitrile	0.895	0.853		-4.69	
Acetone	0.243	0.258		6.17	
Carbon Disulfide	5.461	5.505		0.81	
Methyl tert-Butyl Ether	5.708	5.845		2.4	
Methyl Acetate	2.155	2.103		-2.41	
Methylene Chloride	2.073	2.023		-2.41	
trans-1,2-Dichloroethene	1.899	1.907		0.42	
1,1-Dichloroethane	3.541	3.578	0.2	1.04	
Cyclohexane	0.552	0.526		-4.71	
2-Butanone	0.222	0.210		-5.41	
Carbon Tetrachloride	0.591	0.558	0.1	-5.58	
2,2-Dichloropropane	0.621	0.615		-0.97	
cis-1,2-Dichloroethene	2.183	2.239		2.57	
Chloroform	3.710	3.808	0.2	2.64	
1,1,1-Trichloroethane	0.655	0.631	0.1	-3.66	
Methylcyclohexane	0.526	0.500		-4.94	
1,1-Dichloropropene	0.484	0.466		-3.72	
Benzene	1.521	1.463	0.5	-3.81	
1,2-Dichloroethane	0.518	0.501	0.1	-3.28	
Trichloroethene	0.362	0.361	0.3	-0.28	
1,2-Dichloropropane	0.368	0.353		-4.08	
Dibromomethane	0.264	0.255		-3.41	
Bromodichloromethane	0.565	0.546	0.2	-3.36	
4-Methyl-2-Pentanone	0.490	0.448		-8.57	
Toluene	1.750	1.703	0.4	-2.69	
t-1,3-Dichloropropene	0.554	0.532	0.1	-3.97	
cis-1,3-Dichloropropene	0.604	0.590	0.2	-2.32	
1,1,2-Trichloroethane	0.356	0.344	0.1	-3.37	
1,3-Dichloropropane	0.596	0.572		-4.03	

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.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date/Time: 12/16/2024 09:42

Lab File ID: VN085207.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.371	0.350		-5.66	
Dibromochloromethane	0.434	0.412	0.1	-5.07	
1,2-Dibromoethane	0.359	0.343		-4.46	
Tetrachloroethene	0.363	0.361	0.2	-0.55	
Chlorobenzene	1.080	1.049	0.5	-2.87	
1,1,1,2-Tetrachloroethane	0.403	0.391		-2.98	
Hexachloroethane	0.285	0.275		-3.51	
Ethyl Benzene	1.857	1.831	0.1	-1.4	
m/p-Xylenes	0.714	0.703	0.3	-1.54	
o-Xylene	0.671	0.678	0.3	1.04	
Styrene	1.138	1.138	0.3	0	
Bromoform	0.291	0.271	0.1	-6.87	
Isopropylbenzene	1.730	1.731		0.06	
1,1,2,2-Tetrachloroethane	0.526	0.495	0.3	-5.89	
1,2,3-Trichloropropane	0.520	0.399		-23.27	
Bromobenzene	0.433	0.425		-1.85	
n-propylbenzene	2.079	2.023		-2.69	
2-Chlorotoluene	1.286	1.262		-1.87	
1,3,5-Trimethylbenzene	1.482	1.477		-0.34	
4-Chlorotoluene	1.305	1.276		-2.22	
tert-butylbenzene	1.217	1.210		-0.57	
1,2,4-Trimethylbenzene	1.464	1.478		0.96	
sec-Butylbenzene	1.729	1.683		-2.66	
p-Isopropyltoluene	1.434	1.422		-0.84	
1,3-Dichlorobenzene	0.795	0.761	0.2	-4.28	
1,4-Dichlorobenzene	0.775	0.751	0.2	-3.1	
n-Butylbenzene	1.203	1.164		-3.24	
1,2-Dichlorobenzene	0.750	0.725	0.2	-3.33	
1,2-Dibromo-3-Chloropropane	0.105	0.090		-14.29	
1,2,4-Trichlorobenzene	0.367	0.353	0.2	-3.82	
Hexachlorobutadiene	0.191	0.191		0	
Naphthalene	1.142	1.062		-7.01	
1,2,3-Trichlorobenzene	0.367	0.353		-3.82	
1,2-Dichloroethane-d4	2.380	2.398	0.01	0.76	
Toluene-d8	1.407	1.384	0.01	-1.63	
4-Bromofluorobenzene	0.496	0.487	0.2	-1.82	
Methyl Iodide	2.534	2.157		-14.88	
Methyl methacrylate	0.352	0.327		-7.1	

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.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date/Time: 12/16/2024 16:33

Lab File ID: VN085216.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.400	2.542		5.92	50
Chloromethane	2.124	2.194		3.3	50
Vinyl Chloride	2.173	2.299	0.1	5.8	50
Bromomethane	1.380	1.295	0.1	-6.16	50
Chloroethane	1.335	1.435		7.49	50
Trichlorofluoromethane	3.557	3.621		1.8	50
1,1,2-Trichlorotrifluoroethane	1.989	2.079		4.53	50
1,1-Dichloroethene	1.827	1.851	0.1	1.31	50
Acrolein	0.313	0.345		10.22	50
Acrylonitrile	0.895	0.922		3.02	50
Acetone	0.243	0.286		17.69	50
Carbon Disulfide	5.461	5.430		-0.57	50
Methyl tert-Butyl Ether	5.708	5.892		3.22	50
Methyl Acetate	2.155	2.321		7.7	50
Methylene Chloride	2.073	1.985		-4.24	50
trans-1,2-Dichloroethene	1.899	1.907		0.42	50
1,1-Dichloroethane	3.541	3.573	0.2	0.9	50
Cyclohexane	0.552	0.527		-4.53	50
2-Butanone	0.222	0.233		4.95	50
Carbon Tetrachloride	0.591	0.590	0.1	-0.17	50
2,2-Dichloropropane	0.621	0.621		0	50
cis-1,2-Dichloroethene	2.183	2.196		0.6	50
Chloroform	3.710	3.818	0.2	2.91	50
1,1,1-Trichloroethane	0.655	0.667	0.1	1.83	50
Methylcyclohexane	0.526	0.503		-4.37	50
1,1-Dichloropropene	0.484	0.483		-0.21	50
Benzene	1.521	1.495	0.5	-1.71	50
1,2-Dichloroethane	0.518	0.508	0.1	-1.93	50
Trichloroethene	0.362	0.357	0.3	-1.38	50
1,2-Dichloropropane	0.368	0.358		-2.72	50
Dibromomethane	0.264	0.267		1.14	50
Bromodichloromethane	0.565	0.559	0.2	-1.06	50
4-Methyl-2-Pentanone	0.490	0.496		1.22	50
Toluene	1.750	1.715	0.4	-2	50
t-1,3-Dichloropropene	0.554	0.539	0.1	-2.71	50
cis-1,3-Dichloropropene	0.604	0.579	0.2	-4.14	50
1,1,2-Trichloroethane	0.356	0.358	0.1	0.56	50
1,3-Dichloropropane	0.596	0.598		0.34	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.: P5283 SAS No.: P5283 SDG No.: P5283

Instrument ID: MSVOA_N Calibration Date/Time: 12/16/2024 16:33

Lab File ID: VN085216.D Init. Calib. Date(s): 12/06/2024 12/06/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:02 11:37

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.371	0.371		0	50
Dibromochloromethane	0.434	0.437	0.1	0.69	50
1,2-Dibromoethane	0.359	0.359		0	50
Tetrachloroethene	0.363	0.364	0.2	0.28	50
Chlorobenzene	1.080	1.100	0.5	1.85	50
1,1,1,2-Tetrachloroethane	0.403	0.400		-0.74	50
Hexachloroethane	0.285	0.297		4.21	50
Ethyl Benzene	1.857	1.856	0.1	-0.05	50
m/p-Xylenes	0.714	0.728	0.3	1.96	50
o-Xylene	0.671	0.684	0.3	1.94	50
Styrene	1.138	1.149	0.3	0.97	50
Bromoform	0.291	0.286	0.1	-1.72	50
Isopropylbenzene	1.730	1.742		0.69	50
1,1,2,2-Tetrachloroethane	0.526	0.537	0.3	2.09	50
1,2,3-Trichloropropane	0.520	0.497		-4.42	50
Bromobenzene	0.433	0.445		2.77	50
n-propylbenzene	2.079	2.096		0.82	50
2-Chlorotoluene	1.286	1.290		0.31	50
1,3,5-Trimethylbenzene	1.482	1.515		2.23	50
4-Chlorotoluene	1.305	1.313		0.61	50
tert-butylbenzene	1.217	1.212		-0.41	50
1,2,4-Trimethylbenzene	1.464	1.522		3.96	50
sec-Butylbenzene	1.729	1.739		0.58	50
p-Isopropyltoluene	1.434	1.465		2.16	50
1,3-Dichlorobenzene	0.795	0.800	0.2	0.63	50
1,4-Dichlorobenzene	0.775	0.796	0.2	2.71	50
n-Butylbenzene	1.203	1.189		-1.16	50
1,2-Dichlorobenzene	0.750	0.765	0.2	2	50
1,2-Dibromo-3-Chloropropane	0.105	0.105		0	50
1,2,4-Trichlorobenzene	0.367	0.358	0.2	-2.45	50
Hexachlorobutadiene	0.191	0.187		-2.09	50
Naphthalene	1.142	1.106		-3.15	50
1,2,3-Trichlorobenzene	0.367	0.358		-2.45	50
1,2-Dichloroethane-d4	2.380	2.419	0.01	1.64	50
Toluene-d8	1.407	1.395	0.01	-0.85	50
4-Bromofluorobenzene	0.496	0.502	0.2	1.21	50
Methyl Iodide	2.534	2.053		-18.98	50
Methyl methacrylate	0.352	0.365		3.69	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:	P5283	**OrderDate:**	12/13/2024 1:07:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5283-02	**TT-RW10A-IDWGW-20241213**	**WATER**			**12/13/24**			**12/13/24**
			PCB	8082A		12/16/24	12/16/24	

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Hit Summary Sheet
SW-846

SDG No.: P5283 **Order ID:** P5283

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

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:	12/13/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-RW10A-IDWGW-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-02	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
PO108564.D	1	12/16/24 08:50	12/16/24 19:12	PB165649

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	20.1		35 - 137		101%	SPK: 20
2051-24-3	Decachlorobiphenyl	12.7		40 - 135		64%	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

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

Surrogate Summary

SDG No.: P5283

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-PO108361.D	PIBLK-PO108361.D	Tetrachloro-m-xylene	1	20	23.0	115		60	140
		Decachlorobiphenyl	1	20	23.6	118		60	140
		Tetrachloro-m-xylene	2	20	21.6	108		60	140
		Decachlorobiphenyl	2	20	23.6	118		60	140
I.BLK-PO108559.D	PIBLK-PO108559.D	Tetrachloro-m-xylene	1	20	17.6	88		60	140
		Decachlorobiphenyl	1	20	17.3	86		60	140
		Tetrachloro-m-xylene	2	20	18.9	94		60	140
		Decachlorobiphenyl	2	20	21.0	105		60	140
PB165649BL	PB165649BL	Tetrachloro-m-xylene	1	20	17.8	89		35	137
		Decachlorobiphenyl	1	20	18.0	90		40	135
		Tetrachloro-m-xylene	2	20	18.8	94		35	137
		Decachlorobiphenyl	2	20	21.3	106		40	135
PB165649BS	PB165649BS	Tetrachloro-m-xylene	1	20	17.4	87		35	137
		Decachlorobiphenyl	1	20	18.6	93		40	135
		Tetrachloro-m-xylene	2	20	18.2	91		35	137
		Decachlorobiphenyl	2	20	22.2	111		40	135
PB165649BSD	PB165649BSD	Tetrachloro-m-xylene	1	20	17.4	87		35	137
		Decachlorobiphenyl	1	20	18.7	94		40	135
		Tetrachloro-m-xylene	2	20	18.3	92		35	137
		Decachlorobiphenyl	2	20	22.2	111		40	135
P5283-02	TT-RW10A-IDWGW-20241213	Tetrachloro-m-xylene	1	20	19.0	95		35	137
		Decachlorobiphenyl	1	20	10.7	53		40	135
		Tetrachloro-m-xylene	2	20	20.1	101		35	137
		Decachlorobiphenyl	2	20	12.7	64		40	135
I.BLK-PO108572.D	PIBLK-PO108572.D	Tetrachloro-m-xylene	1	20	18.9	94		60	140
		Decachlorobiphenyl	1	20	18.9	95		60	140
		Tetrachloro-m-xylene	2	20	19.9	99		60	140
		Decachlorobiphenyl	2	20	22.2	111		60	140

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A **Datafile :** PO108562.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165649BS	AR1016	5	4.60	ug/L	92				46	129	
	AR1260	5	4.70	ug/L	94				45	134	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5283

Client: Tetra Tech NUS, Inc.

Analytical Method: 8082A **Datafile :** PO108563.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165649BSD	AR1016	5	4.60	ug/L	92	0			46	129	20
	AR1260	5	4.80	ug/L	96	2			45	134	20

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165649BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5283 SAS No.: P5283 SDG NO.: P5283

Lab Sample ID: PB165649BL Lab File ID: PO108561.D

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

Sulfur Cleanup: (Y/N) N Date Extracted: 12/16/2024

Date Analyzed (1): 12/16/2024 Date Analyzed (2): 12/16/2024

Time Analyzed (1): 18:17 Time Analyzed (2): 18:17

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
PB165649BS	PB165649BS	PO108562.D	12/16/2024	12/16/2024
PB165649BSD	PB165649BSD	PO108563.D	12/16/2024	12/16/2024
TT-RW10A-IDWGW-20241213	P5283-02	PO108564.D	12/16/2024	12/16/2024

COMMENTS:

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Instrument ID: ECD_O **Calibration Date(s):** 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

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

LAB FILE ID: RT 1000 = PO108362.D RT 750 = PO108363.D

RT 500 = PO108364.D RT 250 = PO108365.D RT 050 = PO108366.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.81	4.81	4.81	4.81	4.81	4.81	4.71	4.91
Aroclor-1016-2	(2)	4.83	4.83	4.83	4.83	4.83	4.83	4.73	4.93
Aroclor-1016-3	(3)	4.89	4.89	4.89	4.89	4.89	4.89	4.79	4.99
Aroclor-1016-4	(4)	5.01	5.01	5.01	5.01	5.01	5.01	4.91	5.11
Aroclor-1016-5	(5)	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
Aroclor-1260-1	(1)	6.31	6.31	6.31	6.31	6.31	6.31	6.21	6.41
Aroclor-1260-2	(2)	6.50	6.50	6.50	6.50	6.50	6.50	6.40	6.60
Aroclor-1260-3	(3)	6.87	6.87	6.87	6.87	6.87	6.87	6.77	6.97
Aroclor-1260-4	(4)	7.13	7.13	7.13	7.13	7.13	7.13	7.03	7.23
Aroclor-1260-5	(5)	7.37	7.37	7.37	7.37	7.37	7.37	7.27	7.47
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1242-1	(1)	4.81	4.81	4.81	4.81	4.81	4.81	4.71	4.91
Aroclor-1242-2	(2)	4.83	4.83	4.83	4.83	4.83	4.83	4.73	4.93
Aroclor-1242-3	(3)	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Aroclor-1242-4	(4)	5.01	5.01	5.01	5.00	5.00	5.01	4.91	5.11
Aroclor-1242-5	(5)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1248-1	(1)	4.81	4.81	4.81	4.81	4.81	4.81	4.71	4.91
Aroclor-1248-2	(2)	5.05	5.05	5.05	5.05	5.05	5.05	4.95	5.15
Aroclor-1248-3	(3)	5.26	5.26	5.26	5.26	5.26	5.26	5.16	5.36
Aroclor-1248-4	(4)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1248-5	(5)	5.66	5.66	5.66	5.66	5.66	5.66	5.56	5.76
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1254-1	(1)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1254-2	(2)	5.77	5.77	5.77	5.77	5.77	5.77	5.67	5.87
Aroclor-1254-3	(3)	6.18	6.17	6.17	6.17	6.17	6.17	6.07	6.27
Aroclor-1254-4	(4)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1254-5	(5)	6.83	6.83	6.83	6.83	6.83	6.83	6.73	6.93
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1268-1	(1)	7.65	7.65	7.65	7.66	7.66	7.65	7.55	7.75
Aroclor-1268-2	(2)	7.72	7.72	7.72	7.72	7.72	7.72	7.62	7.82
Aroclor-1268-3	(3)	7.93	7.93	7.93	7.93	7.93	7.93	7.83	8.03
Aroclor-1268-4	(4)	8.22	8.22	8.22	8.22	8.22	8.22	8.12	8.32
Aroclor-1268-5	(5)	8.52	8.52	8.52	8.52	8.52	8.52	8.42	8.62

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene	3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Instrument ID: ECD_O **Calibration Date(s):** 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

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

LAB FILE ID: RT 1000 = PO108362.D RT 750 = PO108363.D

RT 500 = PO108364.D RT 250 = PO108365.D RT 050 = PO108366.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.80	4.80	4.80	4.80	4.80	4.80	4.70	4.90
Aroclor-1016-2	(2)	4.82	4.82	4.82	4.82	4.82	4.82	4.72	4.92
Aroclor-1016-3	(3)	4.99	4.99	4.99	4.99	4.99	4.99	4.89	5.09
Aroclor-1016-4	(4)	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
Aroclor-1016-5	(5)	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Aroclor-1260-1	(1)	6.29	6.29	6.29	6.29	6.29	6.29	6.19	6.39
Aroclor-1260-2	(2)	6.47	6.47	6.47	6.47	6.47	6.47	6.37	6.57
Aroclor-1260-3	(3)	6.63	6.63	6.63	6.63	6.63	6.63	6.53	6.73
Aroclor-1260-4	(4)	7.10	7.10	7.10	7.10	7.10	7.10	7.00	7.20
Aroclor-1260-5	(5)	7.34	7.34	7.34	7.34	7.34	7.34	7.24	7.44
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1242-1	(1)	4.80	4.80	4.80	4.80	4.80	4.80	4.70	4.90
Aroclor-1242-2	(2)	4.82	4.82	4.82	4.82	4.82	4.82	4.72	4.92
Aroclor-1242-3	(3)	4.99	4.99	4.99	4.99	4.99	4.99	4.89	5.09
Aroclor-1242-4	(4)	5.08	5.08	5.08	5.08	5.08	5.08	4.98	5.18
Aroclor-1242-5	(5)	5.60	5.60	5.60	5.60	5.60	5.60	5.50	5.70
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1248-1	(1)	4.80	4.80	4.80	4.80	4.80	4.80	4.70	4.90
Aroclor-1248-2	(2)	5.04	5.04	5.03	5.03	5.04	5.04	4.94	5.14
Aroclor-1248-3	(3)	5.08	5.08	5.08	5.08	5.08	5.08	4.98	5.18
Aroclor-1248-4	(4)	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Aroclor-1248-5	(5)	5.64	5.64	5.64	5.64	5.64	5.64	5.54	5.74
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1254-1	(1)	5.60	5.60	5.60	5.60	5.60	5.60	5.50	5.70
Aroclor-1254-2	(2)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1254-3	(3)	6.15	6.15	6.15	6.15	6.15	6.15	6.05	6.25
Aroclor-1254-4	(4)	6.38	6.38	6.38	6.38	6.38	6.38	6.28	6.48
Aroclor-1254-5	(5)	6.80	6.80	6.80	6.80	6.80	6.80	6.70	6.90
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1268-1	(1)	7.62	7.62	7.62	7.62	7.62	7.62	7.52	7.72
Aroclor-1268-2	(2)	7.69	7.69	7.69	7.69	7.69	7.69	7.59	7.79
Aroclor-1268-3	(3)	7.90	7.90	7.90	7.90	7.90	7.90	7.80	8.00
Aroclor-1268-4	(4)	8.18	8.18	8.18	8.18	8.18	8.18	8.08	8.28
Aroclor-1268-5	(5)	8.48	8.48	8.48	8.48	8.48	8.48	8.38	8.58

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RETENTION TIMES OF INITIAL CALIBRATION

Decachlorobiphenyl	8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene	3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Instrument ID: ECD_O **Calibration Date(s):** 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

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

LAB FILE ID: **CF 1000 =** PO108362.D **CF 750 =** PO108363.D

CF 500 = PO108364.D **CF 250 =** PO108365.D **CF 050 =** PO108366.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	291946997	297743768	310620664	319628964	322276700	308443419	4
Aroclor-1016-2	(2)	404548343	410201719	419086158	434302728	418957120	417419214	3
Aroclor-1016-3	(3)	276313882	283350735	295214768	305005424	303271420	292631246	4
Aroclor-1016-4	(4)	219460370	224028880	231955104	239248200	241192240	231176959	4
Aroclor-1016-5	(5)	230837381	238568924	249276722	260302648	279364560	251670047	8
Aroclor-1260-1	(1)	430087746	435401064	458150304	486996644	475087940	457144740	5
Aroclor-1260-2	(2)	526959551	526383048	555764632	590931960	578558580	555719554	5
Aroclor-1260-3	(3)	436965341	443883275	464184392	487588856	485769460	463678265	5
Aroclor-1260-4	(4)	403312630	406530869	426472890	444299896	446086500	425340557	5
Aroclor-1260-5	(5)	957132439	955503789	984649950	1000570432	961557080	971882738	2
Decachlorobiphenyl		7019975940	7102279760	7343195240	7645101200	7409935200	7304097468	3
Tetrachloro-m-xylene		8754554380	8783699800	8926447760	8858353120	8177601800	8700131372	3
Aroclor-1242-1	(1)	247125512	244458381	250566506	269052152	275422740	257325058	5
Aroclor-1242-2	(2)	337820704	332549081	339649972	356992284	358797680	345161944	3
Aroclor-1242-3	(3)	232389462	228960781	237971694	251417972	255318460	241211674	5
Aroclor-1242-4	(4)	184244210	179103536	186955244	196540012	206728220	190714244	6
Aroclor-1242-5	(5)	194011522	194743607	197474576	218140108	233983940	207670751	9
Decachlorobiphenyl		7151632520	7167100640	7259242160	7695082840	7616154000	7377842432	4
Tetrachloro-m-xylene		8921368150	8691850413	8750108140	8842570400	8500038400	8741187101	2
Aroclor-1248-1	(1)	180443308	190883876	199902132	213303984	216831760	200273012	8
Aroclor-1248-2	(2)	246301061	262357348	276907834	298582396	301778920	277185512	9
Aroclor-1248-3	(3)	307776547	326479597	342321706	362333244	366087160	340999651	7
Aroclor-1248-4	(4)	437732929	457834677	479474244	502800428	504795820	476527620	6
Aroclor-1248-5	(5)	308766537	323271540	339143702	357998428	363873980	338610837	7
Decachlorobiphenyl		7041971050	7340001867	7677772660	8334328560	8377267200	7754268267	8
Tetrachloro-m-xylene		8742483090	9116744787	9342439560	9446963040	8577776400	9045281375	4
Aroclor-1254-1	(1)	463230517	487037587	512031514	533861324	572040640	513640316	8
Aroclor-1254-2	(2)	407035308	429134731	452892530	476390932	511836900	455458080	9
Aroclor-1254-3	(3)	665923649	695083201	726473802	743208540	769953480	720128534	6
Aroclor-1254-4	(4)	404280854	421077525	444268156	458648100	465789400	438812807	6
Aroclor-1254-5	(5)	578915300	604639081	636092894	662542188	693421140	635122121	7
Decachlorobiphenyl		7146512650	7451889427	7845842200	8029803560	8289288000	7752667167	6
Tetrachloro-m-xylene		8916956510	9205112240	9483653100	9313097600	8995829000	9182929690	3
Aroclor-1268-1	(1)	1246089127	1198545457	1234114434	1276827264	1264498100	1244014876	2

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	1144198522	1088520925	1112229462	1147435628	1115923840	1121661675	2
Aroclor-1268-3	(3)	940965396	832346444	919340748	953365360	884986220	906200834	5
Aroclor-1268-4	(4)	385949324	370268229	384086808	404665236	389544200	386902759	3
Aroclor-1268-5	(5)	2890019913	2756282528	2773652360	2815336668	2624622080	2771982710	4
Decachlorobiphenyl		13116054520	12684928373	12985206200	13660251040	13550255000	13199339027	3
Tetrachloro-m-xylene		9439924600	8926085107	9366220020	9585299080	8679584000	9199422561	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Instrument ID: ECD_O **Calibration Date(s):** 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

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

LAB FILE ID: **CF 1000 =** PO108362.D **CF 750 =** PO108363.D

CF 500 = PO108364.D **CF 250 =** PO108365.D **CF 050 =** PO108366.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	153895169	156728372	161981056	169073964	160692820	160474276	4
Aroclor-1016-2	(2)	216342839	218481491	224728354	232664856	218246400	222092788	3
Aroclor-1016-3	(3)	120117826	122069885	126984464	131660600	128335340	125833623	4
Aroclor-1016-4	(4)	96843518	100727947	106065160	112123848	108269060	104805907	6
Aroclor-1016-5	(5)	124135109	128707045	133919966	139473364	149819760	135211049	7
Aroclor-1260-1	(1)	220557751	224688929	233372252	247245708	244312440	234035416	5
Aroclor-1260-2	(2)	265498816	268435476	278836448	291165028	298902840	280567722	5
Aroclor-1260-3	(3)	247895049	250737920	258985508	271036448	289186460	263568277	6
Aroclor-1260-4	(4)	206205103	207830825	214807128	221847076	213061100	212750246	3
Aroclor-1260-5	(5)	485216265	483370987	491130416	498849136	461100640	483933489	3
Decachlorobiphenyl		3766442770	3798929547	3925647180	4081005080	3802565400	3874917995	3
Tetrachloro-m-xylene		5125815400	5157614040	5227779180	5235220160	4600485000	5069382756	5
Aroclor-1242-1	(1)	129471703	129065633	132661290	141454628	146186400	135767931	6
Aroclor-1242-2	(2)	181117644	180316532	183263990	191612732	190980420	185458264	3
Aroclor-1242-3	(3)	100948316	100485531	102947708	108518220	114012140	105382383	5
Aroclor-1242-4	(4)	100375229	100398940	104407974	111868140	119593080	107328673	8
Aroclor-1242-5	(5)	119243844	118999972	122020908	130935164	140800680	126400114	7
Decachlorobiphenyl		3837824030	3881889067	3932164520	4142632320	3981873600	3955276707	3
Tetrachloro-m-xylene		5175637870	5056121747	5062590080	5077379040	4694060200	5013157787	4
Aroclor-1248-1	(1)	96151235	101173276	106208356	111512520	110549280	105118933	6
Aroclor-1248-2	(2)	134456241	142517627	150226096	159660040	159777460	149327493	7
Aroclor-1248-3	(3)	143332101	151082947	159714030	169070604	168858280	158411592	7
Aroclor-1248-4	(4)	168393487	177299203	184813874	193701216	188544620	182550480	5
Aroclor-1248-5	(5)	162171392	168228800	176144562	182809080	188663420	175603451	6
Decachlorobiphenyl		3812249930	3973614533	4145380680	4445118560	4295672800	4134407301	6
Tetrachloro-m-xylene		4965646150	5143987440	5236574340	5255843080	4633325600	5047075322	5
Aroclor-1254-1	(1)	245816740	256457156	269229946	279215328	303441080	270832050	8
Aroclor-1254-2	(2)	215464605	225390397	238770420	248817564	271658880	240020373	9
Aroclor-1254-3	(3)	351887512	364509791	380441060	386791796	393925500	375511132	5
Aroclor-1254-4	(4)	202983022	209924784	220508360	226093392	228876240	217677160	5
Aroclor-1254-5	(5)	301571990	312619885	327015726	332817532	339773740	322759775	5
Decachlorobiphenyl		3941299730	4071714027	4258931580	4374402200	4331619600	4195593427	4
Tetrachloro-m-xylene		5092418740	5228867107	5367266300	5227916200	4998387200	5182971109	3
Aroclor-1268-1	(1)	656711077	629047555	645909990	662020976	635929760	645923872	2

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Aroclor-1268-2	(2)	598855523	573599667	581583226	594062960	559533920	581527059	3
Aroclor-1268-3	(3)	514109640	473779721	502419092	515326152	488714860	498869893	4
Aroclor-1268-4	(4)	204541613	194882907	202546298	212150808	201074520	203039229	3
Aroclor-1268-5	(5)	1554458685	1488724905	1492118486	1500575756	1388253260	1484826218	4
Decachlorobiphenyl		7216327300	6964723040	7142803680	7406390760	7194775600	7185004076	2
Tetrachloro-m-xylene		5353757740	5060175947	5259788400	5326606440	4764065600	5152878825	5

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Instrument ID: ECD_O **Date(s) Analyzed:** 12/06/2024 12/06/2024

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	3.93	3.83	4.03	113144000
		2	4.01	3.91	4.11	86720400
		3	4.09	3.99	4.19	254206000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.09	3.99	4.19	204770000
		2	4.59	4.49	4.69	114353000
		3	4.83	4.73	4.93	197477000
		4	5.01	4.91	5.11	108380000
		5	5.05	4.95	5.15	78329400
Aroclor-1262	500	1	6.87	6.77	6.97	658396000
		2	7.37	7.27	7.47	1111710000
		3	7.65	7.55	7.75	436856000
		4	7.72	7.62	7.82	806298000
		5	8.22	8.12	8.32	354936000

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Instrument ID: ECD_O **Date(s) Analyzed:** 12/06/2024 12/06/2024

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	3.92	3.82	4.02	62122600
		2	4.01	3.91	4.11	47445000
		3	4.08	3.98	4.18	140587000
		4	0.00			0
		5	0.00			0
Aroclor-1232	500	1	4.08	3.98	4.18	112052000
		2	4.82	4.72	4.92	105754000
		3	4.99	4.89	5.09	60347200
		4	5.08	4.98	5.18	55556400
		5	5.25	5.15	5.35	57576200
Aroclor-1262	500	1	6.84	6.74	6.94	337974000
		2	7.34	7.24	7.44	571854000
		3	7.62	7.52	7.72	224428000
		4	7.69	7.59	7.79	409588000
		5	8.18	8.08	8.28	184828000

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 12/06/2024 12/06/2024

Continuing Calib Time: 16:27 **Initial Calibration Time(s):** 14:19 22:34

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)	4.80	4.81	4.71	4.91	0.01
Aroclor-1016-2	(2)	4.82	4.83	4.73	4.93	0.01
Aroclor-1016-3	(3)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-4	(4)	5.00	5.01	4.91	5.11	0.01
Aroclor-1016-5	(5)	5.26	5.27	5.17	5.37	0.01
Aroclor-1260-1	(1)	6.30	6.31	6.21	6.41	0.01
Aroclor-1260-2	(2)	6.49	6.50	6.40	6.60	0.01
Aroclor-1260-3	(3)	6.86	6.87	6.77	6.97	0.01
Aroclor-1260-4	(4)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-5	(5)	7.36	7.37	7.27	7.47	0.01
Tetrachloro-m-xylene		3.71	3.71	3.61	3.81	0.00
Decachlorobiphenyl		8.78	8.79	8.69	8.89	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 12/06/2024 12/06/2024

Continuing Calib Time: 16:27 **Initial Calibration Time(s):** 14:19 22:34

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)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.82	4.72	4.92	0.01
Aroclor-1016-3	(3)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-4	(4)	5.03	5.04	4.94	5.14	0.01
Aroclor-1016-5	(5)	5.24	5.25	5.15	5.35	0.01
Aroclor-1260-1	(1)	6.28	6.29	6.19	6.39	0.01
Aroclor-1260-2	(2)	6.46	6.47	6.37	6.57	0.01
Aroclor-1260-3	(3)	6.62	6.63	6.53	6.73	0.01
Aroclor-1260-4	(4)	7.09	7.10	7.00	7.20	0.01
Aroclor-1260-5	(5)	7.33	7.34	7.24	7.44	0.01
Tetrachloro-m-xylene		3.70	3.71	3.61	3.81	0.01
Decachlorobiphenyl		8.73	8.74	8.64	8.84	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/06/2024 12/06/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/16/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108555.D **Time Analyzed:** 16:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.804	4.709	4.909	456.760	500.000	-8.6
Aroclor-1016-2	4.824	4.729	4.929	463.380	500.000	-7.3
Aroclor-1016-3	4.880	4.785	4.985	461.510	500.000	-7.7
Aroclor-1016-4	5.001	4.907	5.107	460.680	500.000	-7.9
Aroclor-1016-5	5.258	5.165	5.365	455.330	500.000	-8.9
Aroclor-1260-1	6.301	6.210	6.410	439.970	500.000	-12.0
Aroclor-1260-2	6.490	6.398	6.598	445.440	500.000	-10.9
Aroclor-1260-3	6.859	6.769	6.969	439.030	500.000	-12.2
Aroclor-1260-4	7.120	7.029	7.229	424.930	500.000	-15.0
Aroclor-1260-5	7.360	7.270	7.470	426.740	500.000	-14.7
Decachlorobiphenyl	8.776	8.691	8.891	41.110	50.000	-17.8
Tetrachloro-m-xylene	3.707	3.610	3.810	46.360	50.000	-7.3

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/06/2024 12/06/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/16/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108555.D **Time Analyzed:** 16:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.791	4.698	4.898	522.450	500.000	4.5
Aroclor-1016-2	4.811	4.718	4.918	521.590	500.000	4.3
Aroclor-1016-3	4.987	4.894	5.094	513.030	500.000	2.6
Aroclor-1016-4	5.028	4.935	5.135	512.530	500.000	2.5
Aroclor-1016-5	5.242	5.150	5.350	517.620	500.000	3.5
Aroclor-1260-1	6.276	6.186	6.386	510.870	500.000	2.2
Aroclor-1260-2	6.463	6.373	6.573	513.750	500.000	2.8
Aroclor-1260-3	6.617	6.527	6.727	507.620	500.000	1.5
Aroclor-1260-4	7.089	7.000	7.200	516.260	500.000	3.3
Aroclor-1260-5	7.328	7.239	7.439	522.020	500.000	4.4
Decachlorobiphenyl	8.725	8.641	8.841	49.500	50.000	-1.0
Tetrachloro-m-xylene	3.704	3.608	3.808	51.760	50.000	3.5

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 12/06/2024 12/06/2024

Continuing Calib Time: 20:54 **Initial Calibration Time(s):** 14:19 22:34

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)	4.80	4.81	4.71	4.91	0.01
Aroclor-1016-2	(2)	4.82	4.83	4.73	4.93	0.01
Aroclor-1016-3	(3)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-4	(4)	5.00	5.01	4.91	5.11	0.01
Aroclor-1016-5	(5)	5.26	5.27	5.17	5.37	0.01
Aroclor-1260-1	(1)	6.30	6.31	6.21	6.41	0.01
Aroclor-1260-2	(2)	6.49	6.50	6.40	6.60	0.01
Aroclor-1260-3	(3)	6.86	6.87	6.77	6.97	0.01
Aroclor-1260-4	(4)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-5	(5)	7.36	7.37	7.27	7.47	0.01
Tetrachloro-m-xylene		3.71	3.71	3.61	3.81	0.00
Decachlorobiphenyl		8.78	8.79	8.69	8.89	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 12/06/2024 12/06/2024

Continuing Calib Time: 20:54 **Initial Calibration Time(s):** 14:19 22:34

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)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.82	4.72	4.92	0.01
Aroclor-1016-3	(3)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-4	(4)	5.03	5.04	4.94	5.14	0.01
Aroclor-1016-5	(5)	5.24	5.25	5.15	5.35	0.01
Aroclor-1260-1	(1)	6.28	6.29	6.19	6.39	0.01
Aroclor-1260-2	(2)	6.46	6.47	6.37	6.57	0.01
Aroclor-1260-3	(3)	6.62	6.63	6.53	6.73	0.01
Aroclor-1260-4	(4)	7.09	7.10	7.00	7.20	0.01
Aroclor-1260-5	(5)	7.33	7.34	7.24	7.44	0.01
Tetrachloro-m-xylene		3.71	3.71	3.61	3.81	0.01
Decachlorobiphenyl		8.72	8.74	8.64	8.84	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/06/2024 12/06/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/16/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108568.D **Time Analyzed:** 20:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.804	4.709	4.909	475.410	500.000	-4.9
Aroclor-1016-2	4.824	4.729	4.929	477.160	500.000	-4.6
Aroclor-1016-3	4.879	4.785	4.985	478.370	500.000	-4.3
Aroclor-1016-4	5.001	4.907	5.107	478.960	500.000	-4.2
Aroclor-1016-5	5.259	5.165	5.365	481.360	500.000	-3.7
Aroclor-1260-1	6.301	6.210	6.410	473.430	500.000	-5.3
Aroclor-1260-2	6.489	6.398	6.598	471.620	500.000	-5.7
Aroclor-1260-3	6.859	6.769	6.969	472.370	500.000	-5.5
Aroclor-1260-4	7.119	7.029	7.229	463.630	500.000	-7.3
Aroclor-1260-5	7.360	7.270	7.470	470.330	500.000	-5.9
Decachlorobiphenyl	8.775	8.691	8.891	44.000	50.000	-12.0
Tetrachloro-m-xylene	3.707	3.610	3.810	47.810	50.000	-4.4

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CALIBRATION VERIFICATION SUMMARY

Contract: TETR06

Lab Code: CHEM **Case No.:** P5283 **SAS No.:** P5283 **SDG NO.:** P5283

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/06/2024 12/06/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/16/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108568.D **Time Analyzed:** 20:54

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.792	4.698	4.898	535.410	500.000	7.1
Aroclor-1016-2	4.811	4.718	4.918	532.240	500.000	6.4
Aroclor-1016-3	4.987	4.894	5.094	526.070	500.000	5.2
Aroclor-1016-4	5.028	4.935	5.135	519.220	500.000	3.8
Aroclor-1016-5	5.242	5.150	5.350	543.930	500.000	8.8
Aroclor-1260-1	6.277	6.186	6.386	542.650	500.000	8.5
Aroclor-1260-2	6.463	6.373	6.573	543.530	500.000	8.7
Aroclor-1260-3	6.617	6.527	6.727	543.470	500.000	8.7
Aroclor-1260-4	7.089	7.000	7.200	563.980	500.000	12.8
Aroclor-1260-5	7.328	7.239	7.439	562.740	500.000	12.5
Decachlorobiphenyl	8.724	8.641	8.841	52.510	50.000	5.0
Tetrachloro-m-xylene	3.705	3.608	3.808	52.990	50.000	6.0

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Analytical Sequence

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

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

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/06/2024 12/06/2024

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	12/06/2024	14:01	PO108361.D	8.79	3.71
AR1660ICC1000	AR1660ICC1000	12/06/2024	14:19	PO108362.D	8.79	3.71
AR1660ICC750	AR1660ICC750	12/06/2024	14:38	PO108363.D	8.79	3.71
AR1660ICC500	AR1660ICC500	12/06/2024	14:56	PO108364.D	8.79	3.71
AR1660ICC250	AR1660ICC250	12/06/2024	15:14	PO108365.D	8.79	3.71
AR1660ICC050	AR1660ICC050	12/06/2024	15:33	PO108366.D	8.79	3.71
AR1221ICC500	AR1221ICC500	12/06/2024	15:51	PO108367.D	8.79	3.71
AR1232ICC500	AR1232ICC500	12/06/2024	16:09	PO108368.D	8.79	3.71
AR1242ICC1000	AR1242ICC1000	12/06/2024	16:28	PO108369.D	8.79	3.71
AR1242ICC750	AR1242ICC750	12/06/2024	16:46	PO108370.D	8.79	3.71
AR1242ICC500	AR1242ICC500	12/06/2024	17:04	PO108371.D	8.79	3.71
AR1242ICC250	AR1242ICC250	12/06/2024	17:23	PO108372.D	8.79	3.71
AR1242ICC050	AR1242ICC050	12/06/2024	17:41	PO108373.D	8.79	3.71
AR1248ICC1000	AR1248ICC1000	12/06/2024	17:59	PO108374.D	8.79	3.71
AR1248ICC750	AR1248ICC750	12/06/2024	18:18	PO108375.D	8.79	3.71
AR1248ICC500	AR1248ICC500	12/06/2024	18:36	PO108376.D	8.79	3.71
AR1248ICC250	AR1248ICC250	12/06/2024	18:54	PO108377.D	8.79	3.71
AR1248ICC050	AR1248ICC050	12/06/2024	19:13	PO108378.D	8.79	3.71
AR1254ICC1000	AR1254ICC1000	12/06/2024	19:31	PO108379.D	8.79	3.71
AR1254ICC750	AR1254ICC750	12/06/2024	19:49	PO108380.D	8.79	3.71
AR1254ICC500	AR1254ICC500	12/06/2024	20:08	PO108381.D	8.79	3.71
AR1254ICC250	AR1254ICC250	12/06/2024	20:26	PO108382.D	8.79	3.71
AR1254ICC050	AR1254ICC050	12/06/2024	20:44	PO108383.D	8.79	3.71
AR1262ICC500	AR1262ICC500	12/06/2024	21:03	PO108384.D	8.79	3.71
AR1268ICC1000	AR1268ICC1000	12/06/2024	21:21	PO108385.D	8.79	3.71
AR1268ICC750	AR1268ICC750	12/06/2024	21:39	PO108386.D	8.79	3.71
AR1268ICC500	AR1268ICC500	12/06/2024	21:58	PO108387.D	8.79	3.71
AR1268ICC250	AR1268ICC250	12/06/2024	22:16	PO108388.D	8.79	3.71
AR1268ICC050	AR1268ICC050	12/06/2024	22:34	PO108389.D	8.79	3.71
AR1660CCC500	AR1660CCC500	12/16/2024	16:27	PO108555.D	8.78	3.71
I.BLK	I.BLK	12/16/2024	17:40	PO108559.D	8.78	3.71
PB165649BL	PB165649BL	12/16/2024	18:17	PO108561.D	8.78	3.71
PB165649BS	PB165649BS	12/16/2024	18:35	PO108562.D	8.77	3.71
PB165649BSD	PB165649BSD	12/16/2024	18:54	PO108563.D	8.77	3.71
TT-RW10A-IDWGW-20241213	P5283-02	12/16/2024	19:12	PO108564.D	8.78	3.71
AR1660CCC500	AR1660CCC500	12/16/2024	20:54	PO108568.D	8.78	3.71
I.BLK	I.BLK	12/16/2024	22:07	PO108572.D	8.77	3.71

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

Analytical Sequence

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

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

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/06/2024 12/06/2024

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	12/06/2024	14:01	PO108361.D	8.74	3.71
AR1660ICC1000	AR1660ICC1000	12/06/2024	14:19	PO108362.D	8.74	3.71
AR1660ICC750	AR1660ICC750	12/06/2024	14:38	PO108363.D	8.74	3.71
AR1660ICC500	AR1660ICC500	12/06/2024	14:56	PO108364.D	8.74	3.71
AR1660ICC250	AR1660ICC250	12/06/2024	15:14	PO108365.D	8.74	3.71
AR1660ICC050	AR1660ICC050	12/06/2024	15:33	PO108366.D	8.74	3.71
AR1221ICC500	AR1221ICC500	12/06/2024	15:51	PO108367.D	8.74	3.71
AR1232ICC500	AR1232ICC500	12/06/2024	16:09	PO108368.D	8.74	3.71
AR1242ICC1000	AR1242ICC1000	12/06/2024	16:28	PO108369.D	8.74	3.71
AR1242ICC750	AR1242ICC750	12/06/2024	16:46	PO108370.D	8.74	3.71
AR1242ICC500	AR1242ICC500	12/06/2024	17:04	PO108371.D	8.74	3.71
AR1242ICC250	AR1242ICC250	12/06/2024	17:23	PO108372.D	8.74	3.71
AR1242ICC050	AR1242ICC050	12/06/2024	17:41	PO108373.D	8.74	3.71
AR1248ICC1000	AR1248ICC1000	12/06/2024	17:59	PO108374.D	8.74	3.71
AR1248ICC750	AR1248ICC750	12/06/2024	18:18	PO108375.D	8.74	3.71
AR1248ICC500	AR1248ICC500	12/06/2024	18:36	PO108376.D	8.74	3.71
AR1248ICC250	AR1248ICC250	12/06/2024	18:54	PO108377.D	8.74	3.71
AR1248ICC050	AR1248ICC050	12/06/2024	19:13	PO108378.D	8.74	3.71
AR1254ICC1000	AR1254ICC1000	12/06/2024	19:31	PO108379.D	8.74	3.71
AR1254ICC750	AR1254ICC750	12/06/2024	19:49	PO108380.D	8.74	3.71
AR1254ICC500	AR1254ICC500	12/06/2024	20:08	PO108381.D	8.74	3.71
AR1254ICC250	AR1254ICC250	12/06/2024	20:26	PO108382.D	8.74	3.71
AR1254ICC050	AR1254ICC050	12/06/2024	20:44	PO108383.D	8.74	3.71
AR1262ICC500	AR1262ICC500	12/06/2024	21:03	PO108384.D	8.74	3.71
AR1268ICC1000	AR1268ICC1000	12/06/2024	21:21	PO108385.D	8.74	3.71
AR1268ICC750	AR1268ICC750	12/06/2024	21:39	PO108386.D	8.74	3.71
AR1268ICC500	AR1268ICC500	12/06/2024	21:58	PO108387.D	8.74	3.71
AR1268ICC250	AR1268ICC250	12/06/2024	22:16	PO108388.D	8.74	3.71
AR1268ICC050	AR1268ICC050	12/06/2024	22:34	PO108389.D	8.74	3.71
AR1660CCC500	AR1660CCC500	12/16/2024	16:27	PO108555.D	8.73	3.70
I.BLK	I.BLK	12/16/2024	17:40	PO108559.D	8.72	3.70
PB165649BL	PB165649BL	12/16/2024	18:17	PO108561.D	8.72	3.70
PB165649BS	PB165649BS	12/16/2024	18:35	PO108562.D	8.72	3.70
PB165649BSD	PB165649BSD	12/16/2024	18:54	PO108563.D	8.73	3.70
TT-RW10A-IDWGW-20241213	P5283-02	12/16/2024	19:12	PO108564.D	8.72	3.71
AR1660CCC500	AR1660CCC500	12/16/2024	20:54	PO108568.D	8.72	3.71
I.BLK	I.BLK	12/16/2024	22:07	PO108572.D	8.72	3.70

QC SAMPLE DATA

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165649BL	SDG No.:	P5283
Lab Sample ID:	PB165649BL	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
PO108561.D	1	12/16/24 08:50	12/16/24 18:17	PB165649

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	18.8		35 - 137		94%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.3		40 - 135		106%	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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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/06/24
Project:	CTO WE13	Date Received:	12/06/24
Client Sample ID:	PIBLK-PO108361.D	SDG No.:	P5283
Lab Sample ID:	I.BLK-PO108361.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
PO108361.D	1		12/06/24	PO120624

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	23.6		60 - 140		118%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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:	Tetra Tech NUS, Inc.	Date Collected:	12/16/24
Project:	CTO WE13	Date Received:	12/16/24
Client Sample ID:	PIBLK-PO108559.D	SDG No.:	P5283
Lab Sample ID:	I.BLK-PO108559.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
PO108559.D	1		12/16/24	PO121624

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	17.6		60 - 140		88%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		60 - 140		86%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
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LOD = Limit of Detection
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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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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/16/24
Project:	CTO WE13	Date Received:	12/16/24
Client Sample ID:	PIBLK-PO108572.D	SDG No.:	P5283
Lab Sample ID:	I.BLK-PO108572.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
PO108572.D	1		12/16/24	PO121624

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	18.9		60 - 140		94%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.9		60 - 140		95%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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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:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165649BS	SDG No.:	P5283
Lab Sample ID:	PB165649BS	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
PO108562.D	1	12/16/24 08:50	12/16/24 18:35	PB165649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	4.60		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	4.70		0.15	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.2		35 - 137		91%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.2		40 - 135		111%	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:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165649BSD	SDG No.:	P5283
Lab Sample ID:	PB165649BSD	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
PO108563.D	1	12/16/24 08:50	12/16/24 18:54	PB165649

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
12674-11-2	Aroclor-1016	4.60		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	4.80		0.15	0.40	0.50	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.3		35 - 137		92%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.2		40 - 135		111%	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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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
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() = Laboratory InHouse Limit

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LAB CHRONICLE

OrderID:	P5283	**OrderDate:**	12/13/2024 1:07:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5283-02	**TT-RW10A-IDWGW-20241213**	**Water**			**12/13/24**			**12/13/24**
			Mercury	7470A		12/16/24	12/17/24	
			Metals ICP-TAL	6010D		12/16/24	12/16/24	

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Hit Summary Sheet
SW-846

SDG No.: P5283 **Order ID:** P5283

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT-RW10A-IDWGW-20241213									
P5283-02	TT-RW10A-IDWGW-20241213	Water	Aluminum	45300		28.3	40.0	50.0	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Arsenic	56.0		3.48	8.00	10.0	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Barium	176		6.28	12.5	50.0	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Beryllium	7.61		0.13	0.75	3.00	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Cadmium	19.5		0.094	0.75	3.00	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Calcium	11800		33.0	250	1000	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Chromium	165		0.66	2.50	5.00	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Cobalt	231		0.50	3.75	15.0	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Copper	233		7.07	8.00	10.0	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Iron	113000		18.5	40.0	50.0	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Lead	152		3.51	4.80	6.00	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Magnesium	4380		39.4	250	1000	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Manganese	840		1.46	2.50	10.0	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Mercury	0.89		0.081	0.16	0.20	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Nickel	471		0.85	5.00	20.0	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Potassium	6160		685	800	1000	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Sodium	27500		237	500	1000	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Vanadium	213		3.06	10.0	20.0	ug/L
P5283-02	TT-RW10A-IDWGW-20241213	Water	Zinc	394		1.75	5.00	20.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/13/24
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-RW10A-IDWGW-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-02	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	45300		1	28.3	40.0	50.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-36-0	Antimony	6.25	U	1	2.06	6.25	25.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-38-2	Arsenic	56.0		1	3.48	8.00	10.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-39-3	Barium	176		1	6.28	12.5	50.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-41-7	Beryllium	7.61		1	0.13	0.75	3.00	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-43-9	Cadmium	19.5		1	0.094	0.75	3.00	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-70-2	Calcium	11800		1	33.0	250	1000	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-47-3	Chromium	165		1	0.66	2.50	5.00	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-48-4	Cobalt	231		1	0.50	3.75	15.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-50-8	Copper	233		1	7.07	8.00	10.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7439-89-6	Iron	113000		1	18.5	40.0	50.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7439-92-1	Lead	152		1	3.51	4.80	6.00	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7439-95-4	Magnesium	4380		1	39.4	250	1000	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7439-96-5	Manganese	840		1	1.46	2.50	10.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7439-97-6	Mercury	0.89		1	0.081	0.16	0.20	ug/L	12/16/24 14:40	12/17/24 11:25	SW7470A	
7440-02-0	Nickel	471		1	0.85	5.00	20.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-09-7	Potassium	6160	N	1	685	800	1000	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7782-49-2	Selenium	8.00	U	1	5.88	8.00	10.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-22-4	Silver	2.50	U	1	0.58	2.50	5.00	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-23-5	Sodium	27500		1	237	500	1000	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-28-0	Thallium	10.0	U	1	2.32	10.0	20.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-62-2	Vanadium	213		1	3.06	10.0	20.0	ug/L	12/16/24 11:10	12/16/24 21:18	SW6010	SW3010
7440-66-6	Zinc	394		1	1.75	5.00	20.0	ug/L	12/16/24 11:10	12/16/24 21:18	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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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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
ICV20	Mercury	4.17	4.0	104	90 - 110	CV	12/17/2024	11:05	LB133972

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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
CCV32	Mercury	4.92	5.0	98	90 - 110	CV	12/17/2024	11:10	LB133972
CCV33	Mercury	5.24	5.0	105	90 - 110	CV	12/17/2024	11:40	LB133972
CCV34	Mercury	5.43	5.0	109	90 - 110	CV	12/17/2024	11:59	LB133972

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	2620	2500	105	90 - 110	P	12/16/2024	16:02	LB133968
	Antimony	1020	1000	102	90 - 110	P	12/16/2024	16:02	LB133968
	Arsenic	1030	1000	103	90 - 110	P	12/16/2024	16:02	LB133968
	Barium	520	520	100	90 - 110	P	12/16/2024	16:02	LB133968
	Beryllium	527	510	103	90 - 110	P	12/16/2024	16:02	LB133968
	Cadmium	519	510	102	90 - 110	P	12/16/2024	16:02	LB133968
	Calcium	10300	10000	103	90 - 110	P	12/16/2024	16:02	LB133968
	Chromium	540	520	104	90 - 110	P	12/16/2024	16:02	LB133968
	Cobalt	526	520	101	90 - 110	P	12/16/2024	16:02	LB133968
	Copper	541	510	106	90 - 110	P	12/16/2024	16:02	LB133968
	Iron	10200	10000	102	90 - 110	P	12/16/2024	16:02	LB133968
	Lead	1030	1000	103	90 - 110	P	12/16/2024	16:02	LB133968
	Magnesium	6050	6000	101	90 - 110	P	12/16/2024	16:02	LB133968
	Manganese	527	520	101	90 - 110	P	12/16/2024	16:02	LB133968
	Nickel	529	530	100	90 - 110	P	12/16/2024	16:02	LB133968
	Potassium	9980	9900	101	90 - 110	P	12/16/2024	16:02	LB133968
	Selenium	1060	1000	106	90 - 110	P	12/16/2024	16:02	LB133968
	Silver	255	250	102	90 - 110	P	12/16/2024	16:02	LB133968
	Sodium	10200	10000	102	90 - 110	P	12/16/2024	16:02	LB133968
	Thallium	1060	1000	106	90 - 110	P	12/16/2024	16:02	LB133968
	Vanadium	511	500	102	90 - 110	P	12/16/2024	16:02	LB133968
	Zinc	1060	1000	106	90 - 110	P	12/16/2024	16:02	LB133968

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- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	103	100	103	80 - 120	P	12/16/2024	16:06	LB133968
	Antimony	46.4	50.0	93	80 - 120	P	12/16/2024	16:06	LB133968
	Arsenic	19.2	20.0	96	80 - 120	P	12/16/2024	16:06	LB133968
	Barium	95.0	100	95	80 - 120	P	12/16/2024	16:06	LB133968
	Beryllium	5.99	6.0	100	80 - 120	P	12/16/2024	16:06	LB133968
	Cadmium	5.53	6.0	92	80 - 120	P	12/16/2024	16:06	LB133968
	Calcium	1990	2000	99	80 - 120	P	12/16/2024	16:06	LB133968
	Chromium	9.70	10.0	97	80 - 120	P	12/16/2024	16:06	LB133968
	Cobalt	28.0	30.0	93	80 - 120	P	12/16/2024	16:06	LB133968
	Copper	21.6	20.0	108	80 - 120	P	12/16/2024	16:06	LB133968
	Iron	91.1	100	91	80 - 120	P	12/16/2024	16:06	LB133968
	Lead	10.6	12.0	88	80 - 120	P	12/16/2024	16:06	LB133968
	Magnesium	2080	2000	104	80 - 120	P	12/16/2024	16:06	LB133968
	Manganese	20.2	20.0	101	80 - 120	P	12/16/2024	16:06	LB133968
	Nickel	37.5	40.0	94	80 - 120	P	12/16/2024	16:06	LB133968
	Potassium	1960	2000	98	80 - 120	P	12/16/2024	16:06	LB133968
	Selenium	19.7	20.0	98	80 - 120	P	12/16/2024	16:06	LB133968
	Silver	9.45	10.0	94	80 - 120	P	12/16/2024	16:06	LB133968
	Sodium	1910	2000	95	80 - 120	P	12/16/2024	16:06	LB133968
	Thallium	35.6	40.0	89	80 - 120	P	12/16/2024	16:06	LB133968
	Vanadium	38.7	40.0	97	80 - 120	P	12/16/2024	16:06	LB133968
	Zinc	39.8	40.0	100	80 - 120	P	12/16/2024	16:06	LB133968

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	9630	10000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Antimony	4800	5000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Arsenic	4810	5000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Barium	9520	10000	95	90 - 110	P	12/16/2024	16:57	LB133968
	Beryllium	252	250	101	90 - 110	P	12/16/2024	16:57	LB133968
	Cadmium	2460	2500	99	90 - 110	P	12/16/2024	16:57	LB133968
	Calcium	24500	25000	98	90 - 110	P	12/16/2024	16:57	LB133968
	Chromium	993	1000	99	90 - 110	P	12/16/2024	16:57	LB133968
	Cobalt	2440	2500	98	90 - 110	P	12/16/2024	16:57	LB133968
	Copper	1220	1250	97	90 - 110	P	12/16/2024	16:57	LB133968
	Iron	4780	5000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Lead	4930	5000	99	90 - 110	P	12/16/2024	16:57	LB133968
	Magnesium	24600	25000	98	90 - 110	P	12/16/2024	16:57	LB133968
	Manganese	2420	2500	97	90 - 110	P	12/16/2024	16:57	LB133968
	Nickel	2450	2500	98	90 - 110	P	12/16/2024	16:57	LB133968
	Potassium	23400	25000	94	90 - 110	P	12/16/2024	16:57	LB133968
	Selenium	4810	5000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Silver	1220	1250	98	90 - 110	P	12/16/2024	16:57	LB133968
	Sodium	23800	25000	95	90 - 110	P	12/16/2024	16:57	LB133968
	Thallium	4960	5000	99	90 - 110	P	12/16/2024	16:57	LB133968
	Vanadium	2430	2500	97	90 - 110	P	12/16/2024	16:57	LB133968
	Zinc	2460	2500	98	90 - 110	P	12/16/2024	16:57	LB133968
CCV02	Aluminum	9700	10000	97	90 - 110	P	12/16/2024	17:58	LB133968
	Antimony	4720	5000	94	90 - 110	P	12/16/2024	17:58	LB133968
	Arsenic	4740	5000	95	90 - 110	P	12/16/2024	17:58	LB133968
	Barium	9620	10000	96	90 - 110	P	12/16/2024	17:58	LB133968
	Beryllium	263	250	105	90 - 110	P	12/16/2024	17:58	LB133968
	Cadmium	2500	2500	100	90 - 110	P	12/16/2024	17:58	LB133968
	Calcium	25100	25000	100	90 - 110	P	12/16/2024	17:58	LB133968
	Chromium	1020	1000	102	90 - 110	P	12/16/2024	17:58	LB133968
	Cobalt	2470	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
	Copper	1220	1250	97	90 - 110	P	12/16/2024	17:58	LB133968
	Iron	4840	5000	97	90 - 110	P	12/16/2024	17:58	LB133968
	Lead	5000	5000	100	90 - 110	P	12/16/2024	17:58	LB133968

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	25300	25000	101	90 - 110	P	12/16/2024	17:58	LB133968
	Manganese	2490	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
	Nickel	2480	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
	Potassium	23100	25000	92	90 - 110	P	12/16/2024	17:58	LB133968
	Selenium	4710	5000	94	90 - 110	P	12/16/2024	17:58	LB133968
	Silver	1240	1250	99	90 - 110	P	12/16/2024	17:58	LB133968
	Sodium	23700	25000	95	90 - 110	P	12/16/2024	17:58	LB133968
	Thallium	4930	5000	98	90 - 110	P	12/16/2024	17:58	LB133968
	Vanadium	2480	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
	Zinc	2470	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
CCV03	Aluminum	9590	10000	96	90 - 110	P	12/16/2024	18:48	LB133968
	Antimony	4660	5000	93	90 - 110	P	12/16/2024	18:48	LB133968
	Arsenic	4700	5000	94	90 - 110	P	12/16/2024	18:48	LB133968
	Barium	9330	10000	93	90 - 110	P	12/16/2024	18:48	LB133968
	Beryllium	263	250	105	90 - 110	P	12/16/2024	18:48	LB133968
	Cadmium	2480	2500	99	90 - 110	P	12/16/2024	18:48	LB133968
	Calcium	25100	25000	100	90 - 110	P	12/16/2024	18:48	LB133968
	Chromium	1020	1000	102	90 - 110	P	12/16/2024	18:48	LB133968
	Cobalt	2450	2500	98	90 - 110	P	12/16/2024	18:48	LB133968
	Copper	1210	1250	96	90 - 110	P	12/16/2024	18:48	LB133968
	Iron	4810	5000	96	90 - 110	P	12/16/2024	18:48	LB133968
	Lead	4950	5000	99	90 - 110	P	12/16/2024	18:48	LB133968
	Magnesium	25300	25000	101	90 - 110	P	12/16/2024	18:48	LB133968
	Manganese	2470	2500	99	90 - 110	P	12/16/2024	18:48	LB133968
	Nickel	2460	2500	98	90 - 110	P	12/16/2024	18:48	LB133968
	Potassium	22800	25000	91	90 - 110	P	12/16/2024	18:48	LB133968
	Selenium	4670	5000	93	90 - 110	P	12/16/2024	18:48	LB133968
	Silver	1230	1250	98	90 - 110	P	12/16/2024	18:48	LB133968
	Sodium	23300	25000	93	90 - 110	P	12/16/2024	18:48	LB133968
	Thallium	4800	5000	96	90 - 110	P	12/16/2024	18:48	LB133968
	Vanadium	2460	2500	98	90 - 110	P	12/16/2024	18:48	LB133968
	Zinc	2440	2500	98	90 - 110	P	12/16/2024	18:48	LB133968
CCV04	Aluminum	9770	10000	98	90 - 110	P	12/16/2024	19:51	LB133968
	Antimony	4690	5000	94	90 - 110	P	12/16/2024	19:51	LB133968

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	4740	5000	95	90 - 110	P	12/16/2024	19:51	LB133968
	Barium	9400	10000	94	90 - 110	P	12/16/2024	19:51	LB133968
	Beryllium	274	250	110	90 - 110	P	12/16/2024	19:51	LB133968
	Cadmium	2550	2500	102	90 - 110	P	12/16/2024	19:51	LB133968
	Calcium	25700	25000	103	90 - 110	P	12/16/2024	19:51	LB133968
	Chromium	1040	1000	104	90 - 110	P	12/16/2024	19:51	LB133968
	Cobalt	2510	2500	100	90 - 110	P	12/16/2024	19:51	LB133968
	Copper	1220	1250	98	90 - 110	P	12/16/2024	19:51	LB133968
	Iron	4880	5000	98	90 - 110	P	12/16/2024	19:51	LB133968
	Lead	5050	5000	101	90 - 110	P	12/16/2024	19:51	LB133968
	Magnesium	26200	25000	105	90 - 110	P	12/16/2024	19:51	LB133968
	Manganese	2540	2500	102	90 - 110	P	12/16/2024	19:51	LB133968
	Nickel	2510	2500	101	90 - 110	P	12/16/2024	19:51	LB133968
	Potassium	26900	25000	108	90 - 110	P	12/16/2024	19:51	LB133968
	Selenium	4680	5000	94	90 - 110	P	12/16/2024	19:51	LB133968
	Silver	1240	1250	100	90 - 110	P	12/16/2024	19:51	LB133968
	Sodium	25300	25000	101	90 - 110	P	12/16/2024	19:51	LB133968
	Thallium	4970	5000	99	90 - 110	P	12/16/2024	19:51	LB133968
	Vanadium	2530	2500	101	90 - 110	P	12/16/2024	19:51	LB133968
	Zinc	2460	2500	98	90 - 110	P	12/16/2024	19:51	LB133968
CCV05	Aluminum	9980	10000	100	90 - 110	P	12/16/2024	20:49	LB133968
	Antimony	4980	5000	100	90 - 110	P	12/16/2024	20:49	LB133968
	Arsenic	4960	5000	99	90 - 110	P	12/16/2024	20:49	LB133968
	Barium	9720	10000	97	90 - 110	P	12/16/2024	20:49	LB133968
	Beryllium	263	250	105	90 - 110	P	12/16/2024	20:49	LB133968
	Cadmium	2520	2500	101	90 - 110	P	12/16/2024	20:49	LB133968
	Calcium	25000	25000	100	90 - 110	P	12/16/2024	20:49	LB133968
	Chromium	1030	1000	103	90 - 110	P	12/16/2024	20:49	LB133968
	Cobalt	2500	2500	100	90 - 110	P	12/16/2024	20:49	LB133968
	Copper	1260	1250	101	90 - 110	P	12/16/2024	20:49	LB133968
	Iron	4950	5000	99	90 - 110	P	12/16/2024	20:49	LB133968
	Lead	5060	5000	101	90 - 110	P	12/16/2024	20:49	LB133968
	Magnesium	25400	25000	102	90 - 110	P	12/16/2024	20:49	LB133968
	Manganese	2500	2500	100	90 - 110	P	12/16/2024	20:49	LB133968

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	2510	2500	100	90 - 110	P	12/16/2024	20:49	LB133968
	Potassium	23200	25000	93	90 - 110	P	12/16/2024	20:49	LB133968
	Selenium	4960	5000	99	90 - 110	P	12/16/2024	20:49	LB133968
	Silver	1270	1250	101	90 - 110	P	12/16/2024	20:49	LB133968
	Sodium	27000	25000	108	90 - 110	P	12/16/2024	20:49	LB133968
	Thallium	5030	5000	101	90 - 110	P	12/16/2024	20:49	LB133968
	Vanadium	2530	2500	101	90 - 110	P	12/16/2024	20:49	LB133968
	Zinc	2520	2500	101	90 - 110	P	12/16/2024	20:49	LB133968
CCV06	Aluminum	9700	10000	97	90 - 110	P	12/16/2024	21:47	LB133968
	Antimony	4710	5000	94	90 - 110	P	12/16/2024	21:47	LB133968
	Arsenic	4730	5000	95	90 - 110	P	12/16/2024	21:47	LB133968
	Barium	9350	10000	94	90 - 110	P	12/16/2024	21:47	LB133968
	Beryllium	268	250	107	90 - 110	P	12/16/2024	21:47	LB133968
	Cadmium	2510	2500	100	90 - 110	P	12/16/2024	21:47	LB133968
	Calcium	25200	25000	101	90 - 110	P	12/16/2024	21:47	LB133968
	Chromium	1030	1000	103	90 - 110	P	12/16/2024	21:47	LB133968
	Cobalt	2470	2500	99	90 - 110	P	12/16/2024	21:47	LB133968
	Copper	1220	1250	97	90 - 110	P	12/16/2024	21:47	LB133968
	Iron	4840	5000	97	90 - 110	P	12/16/2024	21:47	LB133968
	Lead	5020	5000	100	90 - 110	P	12/16/2024	21:47	LB133968
	Magnesium	25600	25000	102	90 - 110	P	12/16/2024	21:47	LB133968
	Manganese	2490	2500	100	90 - 110	P	12/16/2024	21:47	LB133968
	Nickel	2480	2500	99	90 - 110	P	12/16/2024	21:47	LB133968
	Potassium	27100	25000	109	90 - 110	P	12/16/2024	21:47	LB133968
	Selenium	4700	5000	94	90 - 110	P	12/16/2024	21:47	LB133968
	Silver	1250	1250	100	90 - 110	P	12/16/2024	21:47	LB133968
	Sodium	24900	25000	100	90 - 110	P	12/16/2024	21:47	LB133968
	Thallium	4870	5000	97	90 - 110	P	12/16/2024	21:47	LB133968
	Vanadium	2490	2500	100	90 - 110	P	12/16/2024	21:47	LB133968
	Zinc	2470	2500	99	90 - 110	P	12/16/2024	21:47	LB133968
CCV07	Aluminum	9690	10000	97	90 - 110	P	12/16/2024	23:02	LB133968
	Antimony	4630	5000	92	90 - 110	P	12/16/2024	23:02	LB133968
	Arsenic	4700	5000	94	90 - 110	P	12/16/2024	23:02	LB133968
	Barium	9330	10000	93	90 - 110	P	12/16/2024	23:02	LB133968

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	232	250	93	90 - 110	P	12/16/2024	23:02	LB133968
	Cadmium	2560	2500	102	90 - 110	P	12/16/2024	23:02	LB133968
	Calcium	25700	25000	103	90 - 110	P	12/16/2024	23:02	LB133968
	Chromium	1050	1000	105	90 - 110	P	12/16/2024	23:02	LB133968
	Cobalt	2500	2500	100	90 - 110	P	12/16/2024	23:02	LB133968
	Copper	1210	1250	96	90 - 110	P	12/16/2024	23:02	LB133968
	Iron	4820	5000	96	90 - 110	P	12/16/2024	23:02	LB133968
	Lead	5100	5000	102	90 - 110	P	12/16/2024	23:02	LB133968
	Magnesium	26300	25000	105	90 - 110	P	12/16/2024	23:02	LB133968
	Manganese	2520	2500	101	90 - 110	P	12/16/2024	23:02	LB133968
	Nickel	2520	2500	101	90 - 110	P	12/16/2024	23:02	LB133968
	Potassium	26900	25000	108	90 - 110	P	12/16/2024	23:02	LB133968
	Selenium	4640	5000	93	90 - 110	P	12/16/2024	23:02	LB133968
	Silver	1250	1250	100	90 - 110	P	12/16/2024	23:02	LB133968
	Sodium	23100	25000	92	90 - 110	P	12/16/2024	23:02	LB133968
	Thallium	4980	5000	100	90 - 110	P	12/16/2024	23:02	LB133968
	Vanadium	2510	2500	100	90 - 110	P	12/16/2024	23:02	LB133968
	Zinc	2460	2500	99	90 - 110	P	12/16/2024	23:02	LB133968
CCV08	Aluminum	9720	10000	97	90 - 110	P	12/16/2024	23:35	LB133968
	Antimony	4760	5000	95	90 - 110	P	12/16/2024	23:35	LB133968
	Arsenic	4800	5000	96	90 - 110	P	12/16/2024	23:35	LB133968
	Barium	9410	10000	94	90 - 110	P	12/16/2024	23:35	LB133968
	Beryllium	274	250	109	90 - 110	P	12/16/2024	23:35	LB133968
	Cadmium	2540	2500	102	90 - 110	P	12/16/2024	23:35	LB133968
	Calcium	25500	25000	102	90 - 110	P	12/16/2024	23:35	LB133968
	Chromium	1050	1000	105	90 - 110	P	12/16/2024	23:35	LB133968
	Cobalt	2500	2500	100	90 - 110	P	12/16/2024	23:35	LB133968
	Copper	1230	1250	99	90 - 110	P	12/16/2024	23:35	LB133968
	Iron	4830	5000	97	90 - 110	P	12/16/2024	23:35	LB133968
	Lead	5070	5000	102	90 - 110	P	12/16/2024	23:35	LB133968
	Magnesium	25900	25000	104	90 - 110	P	12/16/2024	23:35	LB133968
	Manganese	2500	2500	100	90 - 110	P	12/16/2024	23:35	LB133968
	Nickel	2520	2500	101	90 - 110	P	12/16/2024	23:35	LB133968
	Potassium	26700	25000	107	90 - 110	P	12/16/2024	23:35	LB133968

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	4760	5000	95	90 - 110	P	12/16/2024	23:35	LB133968
	Silver	1260	1250	101	90 - 110	P	12/16/2024	23:35	LB133968
	Sodium	24300	25000	97	90 - 110	P	12/16/2024	23:35	LB133968
	Thallium	4900	5000	98	90 - 110	P	12/16/2024	23:35	LB133968
	Vanadium	2510	2500	100	90 - 110	P	12/16/2024	23:35	LB133968
	Zinc	2490	2500	100	90 - 110	P	12/16/2024	23:35	LB133968

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	2410	2500	97	90 - 110	P	12/23/2024	11:17	LB134066
	Antimony	1010	1000	101	90 - 110	P	12/23/2024	11:17	LB134066
	Arsenic	1050	1000	105	90 - 110	P	12/23/2024	11:17	LB134066
	Barium	484	520	93	90 - 110	P	12/23/2024	11:17	LB134066
	Beryllium	472	510	93	90 - 110	P	12/23/2024	11:17	LB134066
	Cadmium	508	510	100	90 - 110	P	12/23/2024	11:17	LB134066
	Calcium	9500	10000	95	90 - 110	P	12/23/2024	11:17	LB134066
	Chromium	532	520	102	90 - 110	P	12/23/2024	11:17	LB134066
	Cobalt	516	520	99	90 - 110	P	12/23/2024	11:17	LB134066
	Copper	530	510	104	90 - 110	P	12/23/2024	11:17	LB134066
	Iron	10200	10000	102	90 - 110	P	12/23/2024	11:17	LB134066
	Lead	1020	1000	102	90 - 110	P	12/23/2024	11:17	LB134066
	Magnesium	5570	6000	93	90 - 110	P	12/23/2024	11:17	LB134066
	Manganese	490	520	94	90 - 110	P	12/23/2024	11:17	LB134066
	Nickel	519	530	98	90 - 110	P	12/23/2024	11:17	LB134066
	Potassium	9950	9900	100	90 - 110	P	12/23/2024	11:17	LB134066
	Selenium	1050	1000	105	90 - 110	P	12/23/2024	11:17	LB134066
	Silver	260	250	104	90 - 110	P	12/23/2024	11:17	LB134066
	Sodium	9710	10000	97	90 - 110	P	12/23/2024	11:17	LB134066
	Thallium	1020	1000	102	90 - 110	P	12/23/2024	11:17	LB134066
	Vanadium	470	500	94	90 - 110	P	12/23/2024	11:17	LB134066
	Zinc	1030	1000	103	90 - 110	P	12/23/2024	11:17	LB134066

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	99.3	100	99	80 - 120	P	12/23/2024	11:37	LB134066
	Antimony	50.0	50.0	100	80 - 120	P	12/23/2024	11:37	LB134066
	Arsenic	20.6	20.0	103	80 - 120	P	12/23/2024	11:37	LB134066
	Barium	90.4	100	90	80 - 120	P	12/23/2024	11:37	LB134066
	Beryllium	5.75	6.0	96	80 - 120	P	12/23/2024	11:37	LB134066
	Cadmium	5.89	6.0	98	80 - 120	P	12/23/2024	11:37	LB134066
	Calcium	1970	2000	98	80 - 120	P	12/23/2024	11:37	LB134066
	Chromium	9.87	10.0	99	80 - 120	P	12/23/2024	11:37	LB134066
	Cobalt	29.2	30.0	97	80 - 120	P	12/23/2024	11:37	LB134066
	Copper	21.8	20.0	109	80 - 120	P	12/23/2024	11:37	LB134066
	Iron	105	100	104	80 - 120	P	12/23/2024	11:37	LB134066
	Lead	12.0	12.0	100	80 - 120	P	12/23/2024	11:37	LB134066
	Magnesium	2020	2000	101	80 - 120	P	12/23/2024	11:37	LB134066
	Manganese	19.5	20.0	98	80 - 120	P	12/23/2024	11:37	LB134066
	Nickel	39.3	40.0	98	80 - 120	P	12/23/2024	11:37	LB134066
	Potassium	1870	2000	94	80 - 120	P	12/23/2024	11:37	LB134066
	Selenium	19.0	20.0	95	80 - 120	P	12/23/2024	11:37	LB134066
	Silver	10.8	10.0	108	80 - 120	P	12/23/2024	11:37	LB134066
	Sodium	1800	2000	90	80 - 120	P	12/23/2024	11:37	LB134066
	Thallium	40.5	40.0	101	80 - 120	P	12/23/2024	11:37	LB134066
	Vanadium	38.0	40.0	95	80 - 120	P	12/23/2024	11:37	LB134066
	Zinc	45.7	40.0	114	80 - 120	P	12/23/2024	11:37	LB134066

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	9870	10000	99	90 - 110	P	12/23/2024	12:31	LB134066
	Antimony	5170	5000	103	90 - 110	P	12/23/2024	12:31	LB134066
	Arsenic	5110	5000	102	90 - 110	P	12/23/2024	12:31	LB134066
	Barium	9710	10000	97	90 - 110	P	12/23/2024	12:31	LB134066
	Beryllium	232	250	93	90 - 110	P	12/23/2024	12:31	LB134066
	Cadmium	2450	2500	98	90 - 110	P	12/23/2024	12:31	LB134066
	Calcium	23800	25000	95	90 - 110	P	12/23/2024	12:31	LB134066
	Chromium	998	1000	100	90 - 110	P	12/23/2024	12:31	LB134066
	Cobalt	2460	2500	98	90 - 110	P	12/23/2024	12:31	LB134066
	Copper	1280	1250	102	90 - 110	P	12/23/2024	12:31	LB134066
	Iron	5080	5000	102	90 - 110	P	12/23/2024	12:31	LB134066
	Lead	4890	5000	98	90 - 110	P	12/23/2024	12:31	LB134066
	Magnesium	23600	25000	94	90 - 110	P	12/23/2024	12:31	LB134066
	Manganese	2380	2500	95	90 - 110	P	12/23/2024	12:31	LB134066
	Nickel	2470	2500	99	90 - 110	P	12/23/2024	12:31	LB134066
	Potassium	25700	25000	103	90 - 110	P	12/23/2024	12:31	LB134066
	Selenium	5190	5000	104	90 - 110	P	12/23/2024	12:31	LB134066
	Silver	1250	1250	100	90 - 110	P	12/23/2024	12:31	LB134066
	Sodium	25200	25000	101	90 - 110	P	12/23/2024	12:31	LB134066
	Thallium	5150	5000	103	90 - 110	P	12/23/2024	12:31	LB134066
	Vanadium	2440	2500	98	90 - 110	P	12/23/2024	12:31	LB134066
	Zinc	2450	2500	98	90 - 110	P	12/23/2024	12:31	LB134066
CCV02	Aluminum	10200	10000	102	90 - 110	P	12/23/2024	13:43	LB134066
	Antimony	5450	5000	109	90 - 110	P	12/23/2024	13:43	LB134066
	Arsenic	5360	5000	107	90 - 110	P	12/23/2024	13:43	LB134066
	Barium	10100	10000	101	90 - 110	P	12/23/2024	13:43	LB134066
	Beryllium	230	250	92	90 - 110	P	12/23/2024	13:43	LB134066
	Cadmium	2500	2500	100	90 - 110	P	12/23/2024	13:43	LB134066
	Calcium	24000	25000	96	90 - 110	P	12/23/2024	13:43	LB134066
	Chromium	1000	1000	100	90 - 110	P	12/23/2024	13:43	LB134066
	Cobalt	2520	2500	101	90 - 110	P	12/23/2024	13:43	LB134066
	Copper	1340	1250	107	90 - 110	P	12/23/2024	13:43	LB134066
	Iron	5260	5000	105	90 - 110	P	12/23/2024	13:43	LB134066
	Lead	4990	5000	100	90 - 110	P	12/23/2024	13:43	LB134066

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	23600	25000	94	90 - 110	P	12/23/2024	13:43	LB134066
	Manganese	2410	2500	96	90 - 110	P	12/23/2024	13:43	LB134066
	Nickel	2530	2500	101	90 - 110	P	12/23/2024	13:43	LB134066
	Potassium	27300	25000	109	90 - 110	P	12/23/2024	13:43	LB134066
	Selenium	5480	5000	110	90 - 110	P	12/23/2024	13:43	LB134066
	Silver	1270	1250	102	90 - 110	P	12/23/2024	13:43	LB134066
	Sodium	26600	25000	106	90 - 110	P	12/23/2024	13:43	LB134066
	Thallium	5230	5000	105	90 - 110	P	12/23/2024	13:43	LB134066
	Vanadium	2490	2500	100	90 - 110	P	12/23/2024	13:43	LB134066
	Zinc	2450	2500	98	90 - 110	P	12/23/2024	13:43	LB134066
CCV03	Aluminum	10200	10000	102	90 - 110	P	12/23/2024	14:07	LB134066
	Antimony	5490	5000	110	90 - 110	P	12/23/2024	14:07	LB134066
	Arsenic	5340	5000	107	90 - 110	P	12/23/2024	14:07	LB134066
	Barium	10200	10000	102	90 - 110	P	12/23/2024	14:07	LB134066
	Beryllium	230	250	92	90 - 110	P	12/23/2024	14:07	LB134066
	Cadmium	2470	2500	99	90 - 110	P	12/23/2024	14:07	LB134066
	Calcium	24000	25000	96	90 - 110	P	12/23/2024	14:07	LB134066
	Chromium	1000	1000	100	90 - 110	P	12/23/2024	14:07	LB134066
	Cobalt	2500	2500	100	90 - 110	P	12/23/2024	14:07	LB134066
	Copper	1340	1250	107	90 - 110	P	12/23/2024	14:07	LB134066
	Iron	5200	5000	104	90 - 110	P	12/23/2024	14:07	LB134066
	Lead	4940	5000	99	90 - 110	P	12/23/2024	14:07	LB134066
	Magnesium	23400	25000	94	90 - 110	P	12/23/2024	14:07	LB134066
	Manganese	2400	2500	96	90 - 110	P	12/23/2024	14:07	LB134066
	Nickel	2510	2500	100	90 - 110	P	12/23/2024	14:07	LB134066
	Potassium	27200	25000	109	90 - 110	P	12/23/2024	14:07	LB134066
	Selenium	5480	5000	110	90 - 110	P	12/23/2024	14:07	LB134066
	Silver	1270	1250	102	90 - 110	P	12/23/2024	14:07	LB134066
	Sodium	26100	25000	104	90 - 110	P	12/23/2024	14:07	LB134066
	Thallium	5190	5000	104	90 - 110	P	12/23/2024	14:07	LB134066
	Vanadium	2490	2500	100	90 - 110	P	12/23/2024	14:07	LB134066
	Zinc	2450	2500	98	90 - 110	P	12/23/2024	14:07	LB134066
CCV04	Aluminum	10000	10000	100	90 - 110	P	12/23/2024	15:06	LB134066
	Antimony	5310	5000	106	90 - 110	P	12/23/2024	15:06	LB134066

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	5210	5000	104	90 - 110	P	12/23/2024	15:06	LB134066
	Barium	9720	10000	97	90 - 110	P	12/23/2024	15:06	LB134066
	Beryllium	226	250	90	90 - 110	P	12/23/2024	15:06	LB134066
	Cadmium	2450	2500	98	90 - 110	P	12/23/2024	15:06	LB134066
	Calcium	23400	25000	94	90 - 110	P	12/23/2024	15:06	LB134066
	Chromium	998	1000	100	90 - 110	P	12/23/2024	15:06	LB134066
	Cobalt	2460	2500	98	90 - 110	P	12/23/2024	15:06	LB134066
	Copper	1300	1250	104	90 - 110	P	12/23/2024	15:06	LB134066
	Iron	5150	5000	103	90 - 110	P	12/23/2024	15:06	LB134066
	Lead	4870	5000	97	90 - 110	P	12/23/2024	15:06	LB134066
	Magnesium	23100	25000	92	90 - 110	P	12/23/2024	15:06	LB134066
	Manganese	2330	2500	93	90 - 110	P	12/23/2024	15:06	LB134066
	Nickel	2480	2500	99	90 - 110	P	12/23/2024	15:06	LB134066
	Potassium	26400	25000	106	90 - 110	P	12/23/2024	15:06	LB134066
	Selenium	5340	5000	107	90 - 110	P	12/23/2024	15:06	LB134066
	Silver	1250	1250	100	90 - 110	P	12/23/2024	15:06	LB134066
	Sodium	24200	25000	97	90 - 110	P	12/23/2024	15:06	LB134066
	Thallium	5280	5000	106	90 - 110	P	12/23/2024	15:06	LB134066
	Vanadium	2440	2500	98	90 - 110	P	12/23/2024	15:06	LB134066
	Zinc	2350	2500	94	90 - 110	P	12/23/2024	15:06	LB134066
CCV05	Aluminum	10300	10000	103	90 - 110	P	12/23/2024	16:06	LB134066
	Antimony	5490	5000	110	90 - 110	P	12/23/2024	16:06	LB134066
	Arsenic	5380	5000	108	90 - 110	P	12/23/2024	16:06	LB134066
	Barium	9910	10000	99	90 - 110	P	12/23/2024	16:06	LB134066
	Beryllium	227	250	91	90 - 110	P	12/23/2024	16:06	LB134066
	Cadmium	2470	2500	99	90 - 110	P	12/23/2024	16:06	LB134066
	Calcium	23700	25000	95	90 - 110	P	12/23/2024	16:06	LB134066
	Chromium	1010	1000	101	90 - 110	P	12/23/2024	16:06	LB134066
	Cobalt	2490	2500	100	90 - 110	P	12/23/2024	16:06	LB134066
	Copper	1340	1250	108	90 - 110	P	12/23/2024	16:06	LB134066
	Iron	5240	5000	105	90 - 110	P	12/23/2024	16:06	LB134066
	Lead	4920	5000	98	90 - 110	P	12/23/2024	16:06	LB134066
	Magnesium	23200	25000	93	90 - 110	P	12/23/2024	16:06	LB134066
	Manganese	2360	2500	94	90 - 110	P	12/23/2024	16:06	LB134066

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	2510	2500	100	90 - 110	P	12/23/2024	16:06	LB134066
	Potassium	27100	25000	108	90 - 110	P	12/23/2024	16:06	LB134066
	Selenium	5500	5000	110	90 - 110	P	12/23/2024	16:06	LB134066
	Silver	1270	1250	102	90 - 110	P	12/23/2024	16:06	LB134066
	Sodium	25000	25000	100	90 - 110	P	12/23/2024	16:06	LB134066
	Thallium	5080	5000	102	90 - 110	P	12/23/2024	16:06	LB134066
	Vanadium	2490	2500	100	90 - 110	P	12/23/2024	16:06	LB134066
	Zinc	2350	2500	94	90 - 110	P	12/23/2024	16:06	LB134066
CCV06	Aluminum	10300	10000	103	90 - 110	P	12/23/2024	16:54	LB134066
	Antimony	5440	5000	109	90 - 110	P	12/23/2024	16:54	LB134066
	Arsenic	5350	5000	107	90 - 110	P	12/23/2024	16:54	LB134066
	Barium	10100	10000	101	90 - 110	P	12/23/2024	16:54	LB134066
	Beryllium	243	250	97	90 - 110	P	12/23/2024	16:54	LB134066
	Cadmium	2540	2500	102	90 - 110	P	12/23/2024	16:54	LB134066
	Calcium	24500	25000	98	90 - 110	P	12/23/2024	16:54	LB134066
	Chromium	1040	1000	104	90 - 110	P	12/23/2024	16:54	LB134066
	Cobalt	2540	2500	102	90 - 110	P	12/23/2024	16:54	LB134066
	Copper	1350	1250	108	90 - 110	P	12/23/2024	16:54	LB134066
	Iron	5220	5000	104	90 - 110	P	12/23/2024	16:54	LB134066
	Lead	5030	5000	100	90 - 110	P	12/23/2024	16:54	LB134066
	Magnesium	24200	25000	97	90 - 110	P	12/23/2024	16:54	LB134066
	Manganese	2430	2500	97	90 - 110	P	12/23/2024	16:54	LB134066
	Nickel	2560	2500	102	90 - 110	P	12/23/2024	16:54	LB134066
	Potassium	26600	25000	106	90 - 110	P	12/23/2024	16:54	LB134066
	Selenium	5460	5000	109	90 - 110	P	12/23/2024	16:54	LB134066
	Silver	1280	1250	103	90 - 110	P	12/23/2024	16:54	LB134066
	Sodium	24700	25000	99	90 - 110	P	12/23/2024	16:54	LB134066
	Thallium	5270	5000	105	90 - 110	P	12/23/2024	16:54	LB134066
	Vanadium	2540	2500	101	90 - 110	P	12/23/2024	16:54	LB134066
	Zinc	2340	2500	94	90 - 110	P	12/23/2024	16:54	LB134066

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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
CRI01	Aluminum	94.7	100	95	40 - 160	P	12/16/2024	16:14	LB133968
	Antimony	47.4	50.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Arsenic	18.9	20.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Barium	97.7	100	98	40 - 160	P	12/16/2024	16:14	LB133968
	Beryllium	6.13	6.0	102	40 - 160	P	12/16/2024	16:14	LB133968
	Cadmium	5.61	6.0	94	40 - 160	P	12/16/2024	16:14	LB133968
	Calcium	2010	2000	101	40 - 160	P	12/16/2024	16:14	LB133968
	Chromium	9.95	10.0	100	40 - 160	P	12/16/2024	16:14	LB133968
	Cobalt	28.5	30.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Copper	21.3	20.0	107	40 - 160	P	12/16/2024	16:14	LB133968
	Iron	91.4	100	91	40 - 160	P	12/16/2024	16:14	LB133968
	Lead	12.0	12.0	100	40 - 160	P	12/16/2024	16:14	LB133968
	Magnesium	2110	2000	105	40 - 160	P	12/16/2024	16:14	LB133968
	Manganese	20.6	20.0	103	40 - 160	P	12/16/2024	16:14	LB133968
	Nickel	38.0	40.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Potassium	1900	2000	95	40 - 160	P	12/16/2024	16:14	LB133968
	Selenium	19.0	20.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Silver	9.77	10.0	98	40 - 160	P	12/16/2024	16:14	LB133968
	Sodium	1860	2000	93	40 - 160	P	12/16/2024	16:14	LB133968
	Thallium	38.1	40.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Vanadium	40.5	40.0	101	40 - 160	P	12/16/2024	16:14	LB133968
	Zinc	43.5	40.0	109	40 - 160	P	12/16/2024	16:14	LB133968
CRA	Mercury	0.19	0.2	96	40 - 160	CV	12/17/2024	11:14	LB133972
CRI01	Aluminum	102	100	102	40 - 160	P	12/23/2024	11:51	LB134066
	Antimony	49.6	50.0	99	40 - 160	P	12/23/2024	11:51	LB134066
	Arsenic	19.2	20.0	96	40 - 160	P	12/23/2024	11:51	LB134066
	Barium	92.0	100	92	40 - 160	P	12/23/2024	11:51	LB134066
	Beryllium	5.71	6.0	95	40 - 160	P	12/23/2024	11:51	LB134066
	Cadmium	5.81	6.0	97	40 - 160	P	12/23/2024	11:51	LB134066
	Calcium	1940	2000	97	40 - 160	P	12/23/2024	11:51	LB134066
	Chromium	9.74	10.0	97	40 - 160	P	12/23/2024	11:51	LB134066
	Cobalt	29.2	30.0	97	40 - 160	P	12/23/2024	11:51	LB134066
	Copper	21.9	20.0	110	40 - 160	P	12/23/2024	11:51	LB134066
	Iron	100	100	100	40 - 160	P	12/23/2024	11:51	LB134066
	Lead	11.0	12.0	92	40 - 160	P	12/23/2024	11:51	LB134066

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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
CRI01	Magnesium	2040	2000	102	40 - 160	P	12/23/2024	11:51	LB134066
	Manganese	19.6	20.0	98	40 - 160	P	12/23/2024	11:51	LB134066
	Nickel	39.3	40.0	98	40 - 160	P	12/23/2024	11:51	LB134066
	Potassium	1910	2000	96	40 - 160	P	12/23/2024	11:51	LB134066
	Selenium	17.1	20.0	86	40 - 160	P	12/23/2024	11:51	LB134066
	Silver	11.0	10.0	110	40 - 160	P	12/23/2024	11:51	LB134066
	Sodium	1810	2000	91	40 - 160	P	12/23/2024	11:51	LB134066
	Thallium	41.5	40.0	104	40 - 160	P	12/23/2024	11:51	LB134066
	Vanadium	38.4	40.0	96	40 - 160	P	12/23/2024	11:51	LB134066
	Zinc	41.4	40.0	104	40 - 160	P	12/23/2024	11:51	LB134066

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB20	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/17/2024	11:07	LB133972

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB32	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/17/2024	11:12	LB133972
CCB33	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/17/2024	11:42	LB133972
CCB34	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/17/2024	12:02	LB133972

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/16/2024	16:10	LB133968
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/16/2024	16:10	LB133968
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	16:10	LB133968
	Barium	100	+/-100	U	25.0	100	P	12/16/2024	16:10	LB133968
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	16:10	LB133968
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	16:10	LB133968
	Calcium	2000	+/-2000	U	500	2000	P	12/16/2024	16:10	LB133968
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	16:10	LB133968
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/16/2024	16:10	LB133968
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	16:10	LB133968
	Iron	100	+/-100	U	80.0	100	P	12/16/2024	16:10	LB133968
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/16/2024	16:10	LB133968
	Magnesium	2000	+/-2000	U	500	2000	P	12/16/2024	16:10	LB133968
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/16/2024	16:10	LB133968
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	16:10	LB133968
	Potassium	2000	+/-2000	U	1600	2000	P	12/16/2024	16:10	LB133968
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	16:10	LB133968
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	16:10	LB133968
	Sodium	2000	+/-2000	U	1000	2000	P	12/16/2024	16:10	LB133968
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	16:10	LB133968
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	16:10	LB133968
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	16:10	LB133968

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/16/2024	17:01	LB133968
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/16/2024	17:01	LB133968
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	17:01	LB133968
	Barium	100	+/-100	U	25.0	100	P	12/16/2024	17:01	LB133968
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	17:01	LB133968
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	17:01	LB133968
	Calcium	2000	+/-2000	U	500	2000	P	12/16/2024	17:01	LB133968
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	17:01	LB133968
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/16/2024	17:01	LB133968
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	17:01	LB133968
	Iron	100	+/-100	U	80.0	100	P	12/16/2024	17:01	LB133968
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/16/2024	17:01	LB133968
	Magnesium	2000	+/-2000	U	500	2000	P	12/16/2024	17:01	LB133968
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/16/2024	17:01	LB133968
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	17:01	LB133968
	Potassium	2000	+/-2000	U	1600	2000	P	12/16/2024	17:01	LB133968
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	17:01	LB133968
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	17:01	LB133968
	Sodium	2000	+/-2000	U	1000	2000	P	12/16/2024	17:01	LB133968
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	17:01	LB133968
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	17:01	LB133968
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	17:01	LB133968
CCB02	Aluminum	100	+/-100	U	80.0	100	P	12/16/2024	18:02	LB133968
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/16/2024	18:02	LB133968
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	18:02	LB133968
	Barium	100	+/-100	U	25.0	100	P	12/16/2024	18:02	LB133968
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	18:02	LB133968
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	18:02	LB133968
	Calcium	2000	+/-2000	U	500	2000	P	12/16/2024	18:02	LB133968
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	18:02	LB133968
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/16/2024	18:02	LB133968
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	18:02	LB133968
	Iron	100	+/-100	U	80.0	100	P	12/16/2024	18:02	LB133968
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/16/2024	18:02	LB133968
	Magnesium	2000	+/-2000	U	500	2000	P	12/16/2024	18:02	LB133968
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/16/2024	18:02	LB133968
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	18:02	LB133968
	Potassium	2000	+/-2000	U	1600	2000	P	12/16/2024	18:02	LB133968
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	18:02	LB133968

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/16/2024	18:02	LB133968
	Sodium	2000	+/-2000	U	1000	2000	P	12/16/2024	18:02	LB133968
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	18:02	LB133968
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	18:02	LB133968
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	18:02	LB133968
CCB03	Aluminum	100	+/-100	U	80.0	100	P	12/16/2024	18:52	LB133968
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/16/2024	18:52	LB133968
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	18:52	LB133968
	Barium	100	+/-100	U	25.0	100	P	12/16/2024	18:52	LB133968
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	18:52	LB133968
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	18:52	LB133968
	Calcium	2000	+/-2000	U	500	2000	P	12/16/2024	18:52	LB133968
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	18:52	LB133968
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/16/2024	18:52	LB133968
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	18:52	LB133968
	Iron	100	+/-100	U	80.0	100	P	12/16/2024	18:52	LB133968
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/16/2024	18:52	LB133968
	Magnesium	2000	+/-2000	U	500	2000	P	12/16/2024	18:52	LB133968
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/16/2024	18:52	LB133968
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	18:52	LB133968
	Potassium	2000	+/-2000	U	1600	2000	P	12/16/2024	18:52	LB133968
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	18:52	LB133968
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	18:52	LB133968
	Sodium	2000	+/-2000	U	1000	2000	P	12/16/2024	18:52	LB133968
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	18:52	LB133968
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	18:52	LB133968
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	18:52	LB133968
CCB04	Aluminum	100	+/-100	U	80.0	100	P	12/16/2024	19:57	LB133968
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/16/2024	19:57	LB133968
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	19:57	LB133968
	Barium	100	+/-100	U	25.0	100	P	12/16/2024	19:57	LB133968
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	19:57	LB133968
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	19:57	LB133968
	Calcium	2000	+/-2000	U	500	2000	P	12/16/2024	19:57	LB133968
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	19:57	LB133968
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/16/2024	19:57	LB133968
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	19:57	LB133968
	Iron	100	+/-100	U	80.0	100	P	12/16/2024	19:57	LB133968
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/16/2024	19:57	LB133968

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/16/2024	19:57	LB133968
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/16/2024	19:57	LB133968
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	19:57	LB133968
	Potassium	2000	+/-2000	U	1600	2000	P	12/16/2024	19:57	LB133968
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	19:57	LB133968
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	19:57	LB133968
	Sodium	2000	+/-2000	U	1000	2000	P	12/16/2024	19:57	LB133968
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	19:57	LB133968
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	19:57	LB133968
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	19:57	LB133968
CCB05	Aluminum	100	+/-100	U	80.0	100	P	12/16/2024	20:53	LB133968
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/16/2024	20:53	LB133968
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	20:53	LB133968
	Barium	100	+/-100	U	25.0	100	P	12/16/2024	20:53	LB133968
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	20:53	LB133968
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	20:53	LB133968
	Calcium	2000	+/-2000	U	500	2000	P	12/16/2024	20:53	LB133968
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	20:53	LB133968
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/16/2024	20:53	LB133968
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	20:53	LB133968
	Iron	100	+/-100	U	80.0	100	P	12/16/2024	20:53	LB133968
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/16/2024	20:53	LB133968
	Magnesium	2000	+/-2000	U	500	2000	P	12/16/2024	20:53	LB133968
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/16/2024	20:53	LB133968
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	20:53	LB133968
	Potassium	2000	+/-2000	U	1600	2000	P	12/16/2024	20:53	LB133968
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	20:53	LB133968
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	20:53	LB133968
	Sodium	850	+/-2000	J	1000	2000	P	12/16/2024	20:53	LB133968
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	20:53	LB133968
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	20:53	LB133968
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	20:53	LB133968
CCB06	Aluminum	100	+/-100	U	80.0	100	P	12/16/2024	21:51	LB133968
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/16/2024	21:51	LB133968
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	21:51	LB133968
	Barium	100	+/-100	U	25.0	100	P	12/16/2024	21:51	LB133968
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	21:51	LB133968
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	21:51	LB133968
	Calcium	2000	+/-2000	U	500	2000	P	12/16/2024	21:51	LB133968

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/16/2024	21:51	LB133968
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/16/2024	21:51	LB133968
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	21:51	LB133968
	Iron	100	+/-100	U	80.0	100	P	12/16/2024	21:51	LB133968
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/16/2024	21:51	LB133968
	Magnesium	2000	+/-2000	U	500	2000	P	12/16/2024	21:51	LB133968
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/16/2024	21:51	LB133968
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	21:51	LB133968
	Potassium	2000	+/-2000	U	1600	2000	P	12/16/2024	21:51	LB133968
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	21:51	LB133968
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	21:51	LB133968
	Sodium	917	+/-2000	J	1000	2000	P	12/16/2024	21:51	LB133968
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	21:51	LB133968
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	21:51	LB133968
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	21:51	LB133968
CCB07	Aluminum	100	+/-100	U	80.0	100	P	12/16/2024	23:06	LB133968
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/16/2024	23:06	LB133968
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	23:06	LB133968
	Barium	100	+/-100	U	25.0	100	P	12/16/2024	23:06	LB133968
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	23:06	LB133968
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	23:06	LB133968
	Calcium	2000	+/-2000	U	500	2000	P	12/16/2024	23:06	LB133968
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	23:06	LB133968
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/16/2024	23:06	LB133968
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	23:06	LB133968
	Iron	100	+/-100	U	80.0	100	P	12/16/2024	23:06	LB133968
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/16/2024	23:06	LB133968
	Magnesium	2000	+/-2000	U	500	2000	P	12/16/2024	23:06	LB133968
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/16/2024	23:06	LB133968
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	23:06	LB133968
	Potassium	2000	+/-2000	U	1600	2000	P	12/16/2024	23:06	LB133968
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	23:06	LB133968
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	23:06	LB133968
	Sodium	2000	+/-2000	U	1000	2000	P	12/16/2024	23:06	LB133968
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	23:06	LB133968
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	23:06	LB133968
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	23:06	LB133968
CCB08	Aluminum	100	+/-100	U	80.0	100	P	12/16/2024	23:39	LB133968
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/16/2024	23:39	LB133968

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/16/2024	23:39	LB133968
	Barium	100	+/-100	U	25.0	100	P	12/16/2024	23:39	LB133968
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	23:39	LB133968
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/16/2024	23:39	LB133968
	Calcium	2000	+/-2000	U	500	2000	P	12/16/2024	23:39	LB133968
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	23:39	LB133968
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/16/2024	23:39	LB133968
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	23:39	LB133968
	Iron	100	+/-100	U	80.0	100	P	12/16/2024	23:39	LB133968
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/16/2024	23:39	LB133968
	Magnesium	2000	+/-2000	U	500	2000	P	12/16/2024	23:39	LB133968
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/16/2024	23:39	LB133968
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	23:39	LB133968
	Potassium	2000	+/-2000	U	1600	2000	P	12/16/2024	23:39	LB133968
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/16/2024	23:39	LB133968
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/16/2024	23:39	LB133968
	Sodium	2000	+/-2000	U	1000	2000	P	12/16/2024	23:39	LB133968
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	23:39	LB133968
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/16/2024	23:39	LB133968
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/16/2024	23:39	LB133968

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/23/2024	11:44	LB134066
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/23/2024	11:44	LB134066
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	11:44	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	11:44	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	11:44	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	11:44	LB134066
	Calcium	2000	+/-2000	U	500	2000	P	12/23/2024	11:44	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	11:44	LB134066
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/23/2024	11:44	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	11:44	LB134066
	Iron	100	+/-100	U	80.0	100	P	12/23/2024	11:44	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	11:44	LB134066
	Magnesium	2000	+/-2000	U	500	2000	P	12/23/2024	11:44	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	11:44	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	11:44	LB134066
	Potassium	2000	+/-2000	U	1600	2000	P	12/23/2024	11:44	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	11:44	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	11:44	LB134066
	Sodium	2000	+/-2000	U	1000	2000	P	12/23/2024	11:44	LB134066
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	11:44	LB134066
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	11:44	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	11:44	LB134066

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/23/2024	12:35	LB134066
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/23/2024	12:35	LB134066
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	12:35	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	12:35	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	12:35	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	12:35	LB134066
	Calcium	2000	+/-2000	U	500	2000	P	12/23/2024	12:35	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	12:35	LB134066
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/23/2024	12:35	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	12:35	LB134066
	Iron	100	+/-100	U	80.0	100	P	12/23/2024	12:35	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	12:35	LB134066
	Magnesium	2000	+/-2000	U	500	2000	P	12/23/2024	12:35	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	12:35	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	12:35	LB134066
	Potassium	2000	+/-2000	U	1600	2000	P	12/23/2024	12:35	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	12:35	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	12:35	LB134066
	Sodium	2000	+/-2000	U	1000	2000	P	12/23/2024	12:35	LB134066
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	12:35	LB134066
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	12:35	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	12:35	LB134066
CCB02	Aluminum	100	+/-100	U	80.0	100	P	12/23/2024	13:47	LB134066
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/23/2024	13:47	LB134066
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	13:47	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	13:47	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	13:47	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	13:47	LB134066
	Calcium	2000	+/-2000	U	500	2000	P	12/23/2024	13:47	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	13:47	LB134066
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/23/2024	13:47	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	13:47	LB134066
	Iron	100	+/-100	U	80.0	100	P	12/23/2024	13:47	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	13:47	LB134066
	Magnesium	2000	+/-2000	U	500	2000	P	12/23/2024	13:47	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	13:47	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	13:47	LB134066
	Potassium	2000	+/-2000	U	1600	2000	P	12/23/2024	13:47	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	13:47	LB134066

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/23/2024	13:47	LB134066
	Sodium	2000	+/-2000	U	1000	2000	P	12/23/2024	13:47	LB134066
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	13:47	LB134066
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	13:47	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	13:47	LB134066
CCB03	Aluminum	100	+/-100	U	80.0	100	P	12/23/2024	14:11	LB134066
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/23/2024	14:11	LB134066
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	14:11	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	14:11	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	14:11	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	14:11	LB134066
	Calcium	2000	+/-2000	U	500	2000	P	12/23/2024	14:11	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	14:11	LB134066
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/23/2024	14:11	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	14:11	LB134066
	Iron	100	+/-100	U	80.0	100	P	12/23/2024	14:11	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	14:11	LB134066
	Magnesium	2000	+/-2000	U	500	2000	P	12/23/2024	14:11	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	14:11	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	14:11	LB134066
	Potassium	2000	+/-2000	U	1600	2000	P	12/23/2024	14:11	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	14:11	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	14:11	LB134066
	Sodium	2000	+/-2000	U	1000	2000	P	12/23/2024	14:11	LB134066
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	14:11	LB134066
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	14:11	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	14:11	LB134066
CCB04	Aluminum	100	+/-100	U	80.0	100	P	12/23/2024	15:10	LB134066
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/23/2024	15:10	LB134066
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	15:10	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	15:10	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	15:10	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	15:10	LB134066
	Calcium	2000	+/-2000	U	500	2000	P	12/23/2024	15:10	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	15:10	LB134066
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/23/2024	15:10	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	15:10	LB134066
	Iron	100	+/-100	U	80.0	100	P	12/23/2024	15:10	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	15:10	LB134066

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/23/2024	15:10	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	15:10	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	15:10	LB134066
	Potassium	2000	+/-2000	U	1600	2000	P	12/23/2024	15:10	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	15:10	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	15:10	LB134066
	Sodium	2000	+/-2000	U	1000	2000	P	12/23/2024	15:10	LB134066
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	15:10	LB134066
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	15:10	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	15:10	LB134066
CCB05	Aluminum	100	+/-100	U	80.0	100	P	12/23/2024	16:10	LB134066
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/23/2024	16:10	LB134066
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:10	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	16:10	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	16:10	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	16:10	LB134066
	Calcium	2000	+/-2000	U	500	2000	P	12/23/2024	16:10	LB134066
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	16:10	LB134066
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/23/2024	16:10	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:10	LB134066
	Iron	100	+/-100	U	80.0	100	P	12/23/2024	16:10	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	16:10	LB134066
	Magnesium	2000	+/-2000	U	500	2000	P	12/23/2024	16:10	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	16:10	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	16:10	LB134066
	Potassium	2000	+/-2000	U	1600	2000	P	12/23/2024	16:10	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:10	LB134066
	Silver	1.18	+/-10.0	J	5.00	10.0	P	12/23/2024	16:10	LB134066
	Sodium	2000	+/-2000	U	1000	2000	P	12/23/2024	16:10	LB134066
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	16:10	LB134066
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	16:10	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	16:10	LB134066
CCB06	Aluminum	100	+/-100	U	80.0	100	P	12/23/2024	16:58	LB134066
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/23/2024	16:58	LB134066
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:58	LB134066
	Barium	100	+/-100	U	25.0	100	P	12/23/2024	16:58	LB134066
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	16:58	LB134066
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/23/2024	16:58	LB134066
	Calcium	2000	+/-2000	U	500	2000	P	12/23/2024	16:58	LB134066

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	12/23/2024	16:58	LB134066
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/23/2024	16:58	LB134066
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:58	LB134066
	Iron	100	+/-100	U	80.0	100	P	12/23/2024	16:58	LB134066
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/23/2024	16:58	LB134066
	Magnesium	2000	+/-2000	U	500	2000	P	12/23/2024	16:58	LB134066
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/23/2024	16:58	LB134066
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	16:58	LB134066
	Potassium	2000	+/-2000	U	1600	2000	P	12/23/2024	16:58	LB134066
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/23/2024	16:58	LB134066
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/23/2024	16:58	LB134066
	Sodium	2000	+/-2000	U	1000	2000	P	12/23/2024	16:58	LB134066
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	16:58	LB134066
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/23/2024	16:58	LB134066
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/23/2024	16:58	LB134066

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PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165693BL		**WATER**		**Batch Number:**		**PB165693**		**Prep Date:**	**12/16/2024**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	12/17/2024	11:21	LB133972

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Metals
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PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165659BL		**WATER**		**Batch Number:**		**PB165659**		**Prep Date:**	**12/16/2024**	
	Aluminum	50.0	<50.0	U	40.0	50.0	P	12/23/2024	12:59	LB134066
	Antimony	25.0	<25.0	U	6.25	25.0	P	12/23/2024	12:59	LB134066
	Arsenic	10.0	<10.0	U	8.00	10.0	P	12/23/2024	12:59	LB134066
	Barium	50.0	<50.0	U	12.5	50.0	P	12/23/2024	12:59	LB134066
	Beryllium	3.00	<3.00	U	0.75	3.00	P	12/23/2024	12:59	LB134066
	Cadmium	3.00	<3.00	U	0.75	3.00	P	12/23/2024	12:59	LB134066
	Calcium	1000	<1000	U	250	1000	P	12/23/2024	12:59	LB134066
	Chromium	5.00	<5.00	U	2.50	5.00	P	12/23/2024	12:59	LB134066
	Cobalt	15.0	<15.0	U	3.75	15.0	P	12/23/2024	12:59	LB134066
	Copper	10.0	<10.0	U	8.00	10.0	P	12/23/2024	12:59	LB134066
	Iron	50.0	<50.0	U	40.0	50.0	P	12/23/2024	12:59	LB134066
	Lead	6.00	<6.00	U	4.80	6.00	P	12/23/2024	12:59	LB134066
	Magnesium	1000	<1000	U	250	1000	P	12/23/2024	12:59	LB134066
	Manganese	10.0	<10.0	U	2.50	10.0	P	12/23/2024	12:59	LB134066
	Nickel	20.0	<20.0	U	5.00	20.0	P	12/23/2024	12:59	LB134066
	Potassium	1000	<1000	U	800	1000	P	12/23/2024	12:59	LB134066
	Selenium	10.0	<10.0	U	8.00	10.0	P	12/23/2024	12:59	LB134066
	Silver	5.00	<5.00	U	2.50	5.00	P	12/23/2024	12:59	LB134066
	Sodium	1000	<1000	U	500	1000	P	12/23/2024	12:59	LB134066
	Thallium	20.0	<20.0	U	10.0	20.0	P	12/23/2024	12:59	LB134066
	Vanadium	20.0	<20.0	U	10.0	20.0	P	12/23/2024	12:59	LB134066
	Zinc	20.0	<20.0	U	5.00	20.0	P	12/23/2024	12:59	LB134066

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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	260000	255000	102	216000	294000	12/16/2024	16:19	LB133968
	Antimony	-2.84			-50	50	12/16/2024	16:19	LB133968
	Arsenic	-0.59			-20	20	12/16/2024	16:19	LB133968
	Barium	3.44	6.0	57	-94	106	12/16/2024	16:19	LB133968
	Beryllium	2.17			-6	6	12/16/2024	16:19	LB133968
	Cadmium	0.76	1.0	76	-5	7	12/16/2024	16:19	LB133968
	Calcium	248000	245000	101	208000	282000	12/16/2024	16:19	LB133968
	Chromium	56.2	52.0	108	42	62	12/16/2024	16:19	LB133968
	Cobalt	2.10			-30	30	12/16/2024	16:19	LB133968
	Copper	-13.8	2.0	690	-18	22	12/16/2024	16:19	LB133968
	Iron	100000	101000	99	85600	116500	12/16/2024	16:19	LB133968
	Lead	9.55			-12	12	12/16/2024	16:19	LB133968
	Magnesium	272000	255000	107	216000	294000	12/16/2024	16:19	LB133968
	Manganese	-0.46	7.0	6	-13	27	12/16/2024	16:19	LB133968
	Nickel	2.40	2.0	120	-38	42	12/16/2024	16:19	LB133968
	Potassium	180			0	0	12/16/2024	16:19	LB133968
	Selenium	-16.7			-20	20	12/16/2024	16:19	LB133968
	Silver	-6.96			-10	10	12/16/2024	16:19	LB133968
	Sodium	128			0	0	12/16/2024	16:19	LB133968
	Thallium	-9.72			-40	40	12/16/2024	16:19	LB133968
	Vanadium	5.91			-40	40	12/16/2024	16:19	LB133968
	Zinc	4.52			-40	40	12/16/2024	16:19	LB133968
ICSAB01	Aluminum	254000	247000	103	209000	285000	12/16/2024	16:53	LB133968
	Antimony	584	618	94	525	711	12/16/2024	16:53	LB133968
	Arsenic	107	104	103	88.4	120	12/16/2024	16:53	LB133968
	Barium	514	537	96	437	637	12/16/2024	16:53	LB133968
	Beryllium	533	495	108	420	570	12/16/2024	16:53	LB133968
	Cadmium	1010	972	104	826	1120	12/16/2024	16:53	LB133968
	Calcium	246000	235000	105	199000	271000	12/16/2024	16:53	LB133968
	Chromium	561	542	104	460	624	12/16/2024	16:53	LB133968
	Cobalt	503	476	106	404	548	12/16/2024	16:53	LB133968
	Copper	460	511	90	434	588	12/16/2024	16:53	LB133968
	Iron	97300	99300	98	84400	114500	12/16/2024	16:53	LB133968
	Lead	55.9	49.0	114	37	61	12/16/2024	16:53	LB133968
	Magnesium	269000	248000	108	210000	286000	12/16/2024	16:53	LB133968
	Manganese	504	507	99	430	584	12/16/2024	16:53	LB133968
	Nickel	989	954	104	810	1100	12/16/2024	16:53	LB133968
	Potassium	-33.3			0	0	12/16/2024	16:53	LB133968
	Selenium	36.8	46.0	80	26	66	12/16/2024	16:53	LB133968
	Silver	189	201	94	170	232	12/16/2024	16:53	LB133968
	Sodium	69.2			0	0	12/16/2024	16:53	LB133968
	Thallium	81.3	108	75	68	148	12/16/2024	16:53	LB133968

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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	500	491	102	417	565	12/16/2024	16:53	LB133968
	Zinc	1060	952	111	809	1095	12/16/2024	16:53	LB133968
ICSA01	Aluminum	244000	255000	96	216000	294000	12/23/2024	11:55	LB134066
	Antimony	-1.86			-50	50	12/23/2024	11:55	LB134066
	Arsenic	-0.83			-20	20	12/23/2024	11:55	LB134066
	Barium	2.71	6.0	45	-94	106	12/23/2024	11:55	LB134066
	Beryllium	1.22			-6	6	12/23/2024	11:55	LB134066
	Cadmium	5.83	1.0	583	-5	7	12/23/2024	11:55	LB134066
	Calcium	227000	245000	93	208000	282000	12/23/2024	11:55	LB134066
	Chromium	58.0	52.0	112	42	62	12/23/2024	11:55	LB134066
	Cobalt	1.84			-30	30	12/23/2024	11:55	LB134066
	Copper	16.1	2.0	805	-18	22	12/23/2024	11:55	LB134066
	Iron	104000	101000	103	85600	116500	12/23/2024	11:55	LB134066
	Lead	7.19			-12	12	12/23/2024	11:55	LB134066
	Magnesium	247000	255000	97	216000	294000	12/23/2024	11:55	LB134066
	Manganese	4.79	7.0	68	-13	27	12/23/2024	11:55	LB134066
	Nickel	2.98	2.0	149	-38	42	12/23/2024	11:55	LB134066
	Potassium	30.6			0	0	12/23/2024	11:55	LB134066
	Selenium	-12.8			-20	20	12/23/2024	11:55	LB134066
	Silver	3.28			-10	10	12/23/2024	11:55	LB134066
	Sodium	19.7			0	0	12/23/2024	11:55	LB134066
	Thallium	10.1			-40	40	12/23/2024	11:55	LB134066
	Vanadium	6.09			-40	40	12/23/2024	11:55	LB134066
	Zinc	7.82			-40	40	12/23/2024	11:55	LB134066
ICSAB01	Aluminum	241000	247000	98	209000	285000	12/23/2024	12:06	LB134066
	Antimony	641	618	104	525	711	12/23/2024	12:06	LB134066
	Arsenic	116	104	112	88.4	120	12/23/2024	12:06	LB134066
	Barium	486	537	90	437	637	12/23/2024	12:06	LB134066
	Beryllium	477	495	96	420	570	12/23/2024	12:06	LB134066
	Cadmium	1040	972	107	826	1120	12/23/2024	12:06	LB134066
	Calcium	225000	235000	96	199000	271000	12/23/2024	12:06	LB134066
	Chromium	581	542	107	460	624	12/23/2024	12:06	LB134066
	Cobalt	526	476	110	404	548	12/23/2024	12:06	LB134066
	Copper	565	511	111	434	588	12/23/2024	12:06	LB134066
	Iron	102000	99300	103	84400	114500	12/23/2024	12:06	LB134066
	Lead	55.4	49.0	113	37	61	12/23/2024	12:06	LB134066
	Magnesium	244000	248000	98	210000	286000	12/23/2024	12:06	LB134066
	Manganese	478	507	94	430	584	12/23/2024	12:06	LB134066
	Nickel	1040	954	109	810	1100	12/23/2024	12:06	LB134066
	Potassium	-25.6			0	0	12/23/2024	12:06	LB134066
	Selenium	37.4	46.0	81	26	66	12/23/2024	12:06	LB134066
	Silver	203	201	101	170	232	12/23/2024	12:06	LB134066

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INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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	Sodium	9.80			0	0	12/23/2024	12:06	LB134066
	Thallium	112	108	104	68	148	12/23/2024	12:06	LB134066
	Vanadium	478	491	97	417	565	12/23/2024	12:06	LB134066
	Zinc	1070	952	112	809	1095	12/23/2024	12:06	LB134066

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P5283

contract: TETR06 **lab code:** CHEM **case no.:** P5283 **sas no.:** P5283

matrix: Water **sample id:** P5287-05 **client id:** 220-2-TRANS-WATERMS

Percent Solids for Sample: NA **Spiked ID:** P5287-05MS **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	2640		1510		1000	113		P
Antimony	ug/L	88 - 113	354		25.0	U	400	88		P
Arsenic	ug/L	87 - 113	356		10.0	U	400	89		P
Barium	ug/L	88 - 113	109		13.2	J	100	96		P
Beryllium	ug/L	89 - 112	107		3.00	U	100	107		P
Cadmium	ug/L	88 - 113	93.7		3.00	U	100	94		P
Calcium	ug/L	87 - 113	9470		8640		500	166		P
Chromium	ug/L	90 - 113	208		2.11	J	200	103		P
Cobalt	ug/L	89 - 114	97.0		1.05	J	100	96		P
Copper	ug/L	86 - 114	155		12.6		150	95		P
Iron	ug/L	87 - 115	2610		1130		1500	99		P
Lead	ug/L	86 - 113	455		6.00	U	500	91		P
Magnesium	ug/L	85 - 113	3100		1960		1000	113		P
Manganese	ug/L	90 - 114	139		35.3		100	103		P
Mercury	ug/L	82 - 119	3.60		0.20	U	4.0	90		CV
Nickel	ug/L	88 - 113	242		3.95	J	250	95		P
Potassium	ug/L	86 - 114	7990		4080		5000	78	N	P
Selenium	ug/L	83 - 114	843		10.0	U	1000	84		P
Silver	ug/L	84 - 115	35.7		5.00	U	37.5	95		P
Sodium	ug/L	87 - 115	17700		17200		1500	33		P
Thallium	ug/L	85 - 114	875		20.0	U	1000	88		P
Vanadium	ug/L	90 - 111	159		5.48	J	150	102		P
Zinc	ug/L	87 - 115	129		32.2		100	97		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P5283

contract: TETR06 **lab code:** CHEM **case no.:** P5283 **sas no.:** P5283

matrix: Water **sample id:** P5287-05 **client id:** 220-2-TRANS-WATERMSD

Percent Solids for Sample: NA **Spiked ID:** P5287-05MSD **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	2620		1510		1000	111		P
Antimony	ug/L	88 - 113	353		25.0	U	400	88		P
Arsenic	ug/L	87 - 113	355		10.0	U	400	89		P
Barium	ug/L	88 - 113	109		13.2	J	100	96		P
Beryllium	ug/L	89 - 112	107		3.00	U	100	107		P
Cadmium	ug/L	88 - 113	94.2		3.00	U	100	94		P
Calcium	ug/L	87 - 113	9460		8640		500	165		P
Chromium	ug/L	90 - 113	209		2.11	J	200	103		P
Cobalt	ug/L	89 - 114	97.6		1.05	J	100	97		P
Copper	ug/L	86 - 114	155		12.6		150	95		P
Iron	ug/L	87 - 115	2590		1130		1500	98		P
Lead	ug/L	86 - 113	458		6.00	U	500	92		P
Magnesium	ug/L	85 - 113	3090		1960		1000	112		P
Manganese	ug/L	90 - 114	137		35.3		100	102		P
Mercury	ug/L	82 - 119	3.64		0.20	U	4.0	91		CV
Nickel	ug/L	88 - 113	243		3.95	J	250	96		P
Potassium	ug/L	86 - 114	8060		4080		5000	80	N	P
Selenium	ug/L	83 - 114	843		10.0	U	1000	84		P
Silver	ug/L	84 - 115	35.7		5.00	U	37.5	95		P
Sodium	ug/L	87 - 115	18000		17200		1500	54		P
Thallium	ug/L	85 - 114	885		20.0	U	1000	88		P
Vanadium	ug/L	90 - 111	159		5.48	J	150	102		P
Zinc	ug/L	87 - 115	130		32.2		100	98		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

Matrix: Water **Level:** LOW **Client ID:** 220-2-TRANS-WATERA

Sample ID: P5287-05 **Spiked ID:** P5287-05A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Potassium	ug/L	86 - 114	8030		4080		5000	79		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

Matrix: Water **Sample ID:** P5287-05 **Client ID:** 220-2-TRANS-WATERDUP

Percent Solids for Sample: NA **Duplicate ID** P5287-05DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1510		1500		1		P
Antimony	ug/L	20	25.0	U	10.7	J	200.0		P
Arsenic	ug/L	20	10.0	U	10.5		200.0		P
Barium	ug/L	20	13.2	J	16.6	J	23		P
Beryllium	ug/L	20	3.00	U	3.62		200.0		P
Cadmium	ug/L	20	3.00	U	3.36		200.0		P
Calcium	ug/L	20	8640		8710		1		P
Chromium	ug/L	20	2.11	J	9.44		127		P
Cobalt	ug/L	20	1.05	J	4.45	J	124		P
Copper	ug/L	20	12.6		18.0		35		P
Iron	ug/L	20	1130		1160		3		P
Lead	ug/L	20	6.00	U	18.7		200.0		P
Magnesium	ug/L	20	1960		2000		2		P
Manganese	ug/L	20	35.3		38.7		9		P
Mercury	ug/L	20	0.20	U	0.20	U			CV
Nickel	ug/L	20	3.95	J	12.5	J	104		P
Potassium	ug/L	20	4080		4200		3		P
Selenium	ug/L	20	10.0	U	32.9		200.0		P
Silver	ug/L	20	5.00	U	0.97	J	200.0		P
Sodium	ug/L	20	17200		17400		1		P
Thallium	ug/L	20	20.0	U	29.0		200.0		P
Vanadium	ug/L	20	5.48	J	10.2	J	60		P
Zinc	ug/L	20	32.2		36.1		11		P

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

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

Matrix: Water **Sample ID:** P5287-05MS **Client ID:** 220-2-TRANS-WATERMSD

Percent Solids for Sample: NA **Duplicate ID** P5287-05MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	2640		2620		1		P
Antimony	ug/L	20	354		353		0		P
Arsenic	ug/L	20	356		355		0		P
Barium	ug/L	20	109		109		0		P
Beryllium	ug/L	20	107		107		0		P
Cadmium	ug/L	20	93.7		94.2		1		P
Calcium	ug/L	20	9470		9460		0		P
Chromium	ug/L	20	208		209		0		P
Cobalt	ug/L	20	97.0		97.6		1		P
Copper	ug/L	20	155		155		0		P
Iron	ug/L	20	2610		2590		1		P
Lead	ug/L	20	455		458		1		P
Magnesium	ug/L	20	3100		3090		0		P
Manganese	ug/L	20	139		137		1		P
Mercury	ug/L	20	3.60		3.64		1		CV
Nickel	ug/L	20	242		243		0		P
Potassium	ug/L	20	7990		8060		1		P
Selenium	ug/L	20	843		843		0		P
Silver	ug/L	20	35.7		35.7		0		P
Sodium	ug/L	20	17700		18000		2		P
Thallium	ug/L	20	875		885		1		P
Vanadium	ug/L	20	159		159		0		P
Zinc	ug/L	20	129		130		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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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165659BS							
Aluminum	ug/L	1000	963		96	86 - 115	P
Antimony	ug/L	400	411		103	88 - 113	P
Arsenic	ug/L	400	412		103	87 - 113	P
Barium	ug/L	100	92.8		93	88 - 113	P
Beryllium	ug/L	100	90.7		91	89 - 112	P
Cadmium	ug/L	100	94.9		95	88 - 113	P
Calcium	ug/L	500	494	J	99	87 - 113	P
Chromium	ug/L	200	201		100	90 - 113	P
Cobalt	ug/L	100	97.5		98	89 - 114	P
Copper	ug/L	150	160		107	86 - 114	P
Iron	ug/L	1500	1530		102	87 - 115	P
Lead	ug/L	500	482		96	86 - 113	P
Magnesium	ug/L	1000	905	J	90	85 - 113	P
Manganese	ug/L	100	94.6		95	90 - 114	P
Nickel	ug/L	250	245		98	88 - 113	P
Potassium	ug/L	5000	5060		101	86 - 114	P
Selenium	ug/L	1000	1020		102	83 - 114	P
Silver	ug/L	37.5	38.0		101	84 - 115	P
Sodium	ug/L	1500	1430		95	87 - 115	P
Thallium	ug/L	1000	992		99	85 - 114	P
Vanadium	ug/L	150	143		95	90 - 111	P
Zinc	ug/L	100	101		101	87 - 115	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165693BS							
Mercury	ug/L	4.0	4.49		112	82 - 119	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

220-2-TRANS-WATERL

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

Lab Code: CHEM **Lb No.:** lb133968 **Lab Sample ID :** P5287-05L **SDG No.:** P5283

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	1510		1980		31		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	13.2	J	250	U	100.0		P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	8640		9860		14		P
Chromium	2.11	J	3.33	J	58		P
Cobalt	1.05	J	75.0	U	100.0		P
Copper	12.6		50.0	U	100.0		P
Iron	1130		1340		19		P
Lead	6.00	U	30.0	U			P
Magnesium	1960		2300	J	17		P
Manganese	35.3		40.5	J	15		P
Mercury	0.20	U	1.00	U			CV
Nickel	3.95	J	4.43	J	12		P
Potassium	4080		6750		66		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	17200		20000		16		P
Thallium	20.0	U	100	U			P
Vanadium	5.48	J	100	U	100.0		P
Zinc	32.2		32.0	J	0		P

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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
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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5283 **SAS No.:** P5283

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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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

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

Case No.: P5283 **SAS No.:** P5283

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165659**						
P5283-02	TT-RW10A-IDWGW-20241213	SAM	WATER	12/16/2024	50.0	25.0	
P5287-05DUP	220-2-TRANS-WATERDUP	DUP	WATER	12/16/2024	50.0	25.0	
P5287-05MS	220-2-TRANS-WATERMS	MS	WATER	12/16/2024	50.0	25.0	
P5287-05MSD	220-2-TRANS-WATERMSD	MSD	WATER	12/16/2024	50.0	25.0	
PB165659BL	PB165659BL	MB	WATER	12/16/2024	50.0	25.0	
PB165659BS	PB165659BS	LCS	WATER	12/16/2024	50.0	25.0	

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SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

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

Case No.: P5283 **SAS No.:** P5283

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165693**						
P5283-02	TT-RW10A-IDWGW-20241213	SAM	WATER	12/16/2024	30.0	30.0	
P5287-05DUP	220-2-TRANS-WATERDUP	DUP	WATER	12/16/2024	30.0	30.0	
P5287-05MS	220-2-TRANS-WATERMS	MS	WATER	12/16/2024	30.0	30.0	
P5287-05MSD	220-2-TRANS-WATERMSD	MSD	WATER	12/16/2024	30.0	30.0	
PB165693BL	PB165693BL	MB	WATER	12/16/2024	30.0	30.0	
PB165693BS	PB165693BS	LCS	WATER	12/16/2024	30.0	30.0	

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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** P5283 **Sas no.:** P5283 **Sdg no.:** P5283

Instrument id number: **Method:** **Run number:** LB133968

Start date: 12/16/2024 **End date:** 12/16/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1536	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	1540	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	1545	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	1549	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	1553	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	1557	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	1602	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	1606	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	1610	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	1614	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	1619	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	1653	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	1657	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	1701	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	1758	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	1802	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	1848	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	1852	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	1951	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	1957	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	2049	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	2053	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5283-02	TT-RW10A-IDWGW-20241213	1	2118	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5287-05DUP	220-2-TRANS-WATERDUP	1	2126	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5287-05L	220-2-TRANS-WATERL	5	2130	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	2147	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	2151	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5287-05MS	220-2-TRANS-WATERMS	1	2200	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5287-05MSD	220-2-TRANS-WATERMSD	1	2204	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5287-05A	220-2-TRANS-WATERA	1	2246	K
CCV07	CCV07	1	2302	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	2306	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	2335	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	2339	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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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** P5283 **Sas no.:** P5283 **Sdg no.:** P5283

Instrument id number: **Method:** **Run number:** LB133972

Start date: 12/17/2024 **End date:** 12/17/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0.0	S0.0	1	1040	HG
S0.2	S0.2	1	1042	HG
S2.5	S2.5	1	1045	HG
S5.0	S5.0	1	1047	HG
S7.5	S7.5	1	1049	HG
S10.0	S10.0	1	1057	HG
ICV20	ICV20	1	1105	HG
ICB20	ICB20	1	1107	HG
CCV32	CCV32	1	1110	HG
CCB32	CCB32	1	1112	HG
CRA	CRA	1	1114	HG
PB165693BL	PB165693BL	1	1121	HG
P5283-02	TT-RW10A-IDWGW-20241213	1	1125	HG
P5287-05DUP	220-2-TRANS-WATERDUP	1	1130	HG
P5287-05MS	220-2-TRANS-WATERMS	1	1135	HG
P5287-05MSD	220-2-TRANS-WATERMSD	1	1137	HG
CCV33	CCV33	1	1140	HG
CCB33	CCB33	1	1142	HG
PB165693BS	PB165693BS	1	1152	HG
P5287-05L	220-2-TRANS-WATERL	5	1155	HG
CCV34	CCV34	1	1159	HG
CCB34	CCB34	1	1202	HG

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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** P5283 **Sas no.:** P5283 **Sdg no.:** P5283

Instrument id number: **Method:** **Run number:** LB134066

Start date: 12/23/2024 **End date:** 12/23/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1051	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	1056	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	1100	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	1104	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	1109	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	1113	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	1117	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	1137	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	1144	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	1151	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	1155	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	1206	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	1231	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	1235	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165659BL	PB165659BL	1	1259	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165659BS	PB165659BS	1	1303	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	1343	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	1347	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	1407	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	1411	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	1506	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	1510	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	1606	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	1610	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	1654	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	1658	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:	P5283	**OrderDate:**	12/13/2024 1:07:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	L61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5283-02	**TT-RW10A-IDWGW-20241213**	**WATER**			**12/13/24 10:15**			**12/13/24**
			pH	9040C			12/16/24 09:25	

SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/13/24 10:15
Project:	CTO WE13	Date Received:	12/13/24
Client Sample ID:	TT-RW10A-IDWGW-20241213	SDG No.:	P5283
Lab Sample ID:	P5283-02	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	5.28	H	1	0	0	0	pH		12/16/24 09:25	9040C

Comments: pH result reported at temperature 20.1 °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

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

Initial and Continuing Calibration Verification

Client: Tetra Tech NUS, Inc. **SDG No.:** P5283

Project: CTO WE13 **RunNo.:** LB133961

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV**						
pH	pH	7.01	7	100	90-110	12/16/2024
Sample ID: **CCV1**						
pH	pH	2.01	2.00	101	90-110	12/16/2024
Sample ID: **CCV2**						
pH	pH	12.02	12.00	100	90-110	12/16/2024

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Duplicate Sample Summary

Client: Tetra Tech NUS, Inc.
SDG No.: P5283
Project: CTO WE13
Sample ID: P5291-13
Client ID: WC-20241213DUP
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	6.59		6.60		1	0.15		12/16/2024

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: P5283

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: Dave Brayack	CITY: STATE: ZIP:
ATTENTION: Ernie Wu	E-MAIL: david.brayack@tetratech.com	ATTENTION: PHONE:
PHONE: 757-466-4901 FAX: 757-461-4148	PHONE: 757-466-4909 FAX: 757-461-4148	

DATA TURNAROUND INFORMATION

FAX:_____24hr_____ DAYS*
HARD COPY:_____24hr_____DAYS*
EDD_____24hr_____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
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other_____
- ☐ EDD Format_____

ANALYSIS

1	2	3	4	5	6	7	8	9
VOC'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-20241213	QA		X	12/13/24	9:00	2	2									Trip Blank
2.	TT-RW10A-IDWGW-20241213	AQ		X	12/13/24	10:15	6	3	1	1	1						Refer to COC For Name
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

	DATE/TIME		
RELINQUISHED BY SAMPLER 1.	12/13/24 1300	RECEIVED BY 1.	1300 12-13-24
RELINQUISHED BY 2.	DATE/TIME	RECEIVED BY 2.	
RELINQUISHED BY 3.	DATE/TIME 12-13-24	RECEIVED FOR LAB BY 3.	

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.1c
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:_____
Comments:
24hr TAT - CTO-WE13 Drilling GW IDW Sampling - RW10A

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 : P5283 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 12/13/2024 1:07:00 PM
Project Name : CTO WE13
Receive DateTime : 12/13/2024 ~~12:00:00~~ AM 13:05
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
P5283-01	TT-TB-20241213	Water	12/13/2024	09:00					
					VOCMS Group4		624.1		1 Bus. Day
P5283-02	TT-RW10A-IDWGW-20241213	Water	12/13/2024	10:15					
					VOCMS Group4		624.1		1 Bus. Day

Relinquished By : [signature]
Date / Time : 12-16-24 9:55

Received By : [signature]
Date / Time : 12-16-24 9:55

Storage Area : VOA Refridgerator Room