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

ANALYTICAL RESULTS SUMMARY

METALS
SEMI-VOLATILE ORGANICS

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : P4652

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Table Of Contents for P4652

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Cover Page

Order ID : P4652

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
P4652-01	RW5-SP100-50-20241030
P4652-02	RW5-SP201-50-20241030
P4652-03	RW5-SP301-303-50-20241030
P4652-04	RW5-SP100-90-20241030
P4652-05	RW5-SP201-90-20241030
P4652-06	RW5-SP301-303-90-20241030

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 : N. N. Pandya

APPROVED
Date: 11/20/2024
By Nimisha Pandya, QA/QC Supervisor at 3:08 pm, Nov 20, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager: Ernie Wu
Chemtech Project # P4652
Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:
6 Water samples were received on 10/31/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL and SVOC-SIMGroup1. This data package contains results for SVOC-SIMGroup1.

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

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

The Surrogate recoveries met the acceptable criteria except for RW5-SP201-50-20241030 [2-Fluorobiphenyl - 110%, Terphenyl-d14 - 133%], RW5-SP100-90-20241030 [Terphenyl-d14 - 138%], RW5-SP201-90-20241030 [Terphenyl-d14 - 133%], PB164594BSD [2-Fluorobiphenyl - 109%], failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements except for RW5-SP201-50-20241030, RW5-SP301-303-50-20241030, RW5-SP201-90-20241030, RW5-SP301-303-90-20241030, PB164594BS and PB164594BSD failure Internal Standard are not associated with the client list, as per criteria affected Internal Standard were passing, therefore no corrective action was taken.

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

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The Continuous Calibration File ID BN034850.D met the requirements except for 2,4,6-Tribromophenol , failure surrogates is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Continuous Calibration File ID BN034863.D met the requirements except for 2,4,6-Tribromophenol and Terphenyl-d14 , failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Tuning criteria met requirements.

Samples RW5-SP100-50-20241030, RW5-SP100-90-20241030 were diluted due to high concentrations.

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

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% 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 > 15% 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 N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 3:09 pm, Nov 20, 2024

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: CTO WE13
Project Manager: Ernie Wu
Chemtech Project # P4652
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
6 Water samples were received on 10/31/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-TAL, METALS-TAL and SVOC-SIMGroup1. 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 (102324-AMS) analysis met criteria for all samples except for Mercury. The Matrix Spike (OUTFALL-007MS) analysis met criteria for all samples except for Barium, Sodium, Vanadium, Zinc.
The Matrix Spike Duplicate (102324-AMSD) analysis met criteria for all samples except for Mercury. The Matrix Spike Duplicate (OUTFALL-007MSD) analysis met criteria for all samples except for Barium, Sodium, Zinc.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

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

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

Signature N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 3:09 pm, Nov 20, 2024

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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 #: **P4652**

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

QA Review Signature: **SOHIL JODHANI** **Date:** **11/20/2024**

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LAB CHRONICLE

OrderID:	P4652	**OrderDate:**	10/31/2024 11:11:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	K61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4652-01	**RW5-SP100-50-20241030**	**Water**			**10/30/24**			**10/31/24**
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-01DL	**RW5-SP100-50-20241030DL**	**Water**			**10/30/24**			**10/31/24**
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-02	**RW5-SP201-50-20241030**	**Water**			**10/30/24**			**10/31/24**
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-03	**RW5-SP301-303-50-20241030**	**Water**			**10/30/24**			**10/31/24**
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-04	**RW5-SP100-90-20241030**	**Water**			**10/30/24**			**10/31/24**
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/05/24	
P4652-04DL	**RW5-SP100-90-20241030DL**	**Water**			**10/30/24**			**10/31/24**
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/05/24	
P4652-05	**RW5-SP201-90-20241030**	**Water**			**10/30/24**			**10/31/24**
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	
P4652-06	**RW5-SP301-303-90-20241030**	**Water**			**10/30/24**			**10/31/24**
			SVOC-SIMGroup1	8270-Modified		11/01/24	11/04/24	

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Hit Summary Sheet
SW-846

SDG No.: P4652

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW5-SP100-50-20241030								
P4652-01	RW5-SP100-50-2024103(WATER	1,4-Dioxane	8.100	E	0.07	0.2	0.2	ug/L
		Total Svoc :			**8.10**			
		Total Concentration:			**8.10**			
Client ID : RW5-SP100-50-20241030DL								
P4652-01DL	RW5-SP100-50-2024103(WATER	1,4-Dioxane	8.500	D	0.34	1	1	ug/L
		Total Svoc :			**8.50**			
		Total Concentration:			**8.50**			
Client ID : RW5-SP201-50-20241030								
P4652-02	RW5-SP201-50-2024103(WATER	1,4-Dioxane	0.070	J	0.07	0.2	0.2	ug/L
		Total Svoc :			**0.07**			
		Total Concentration:			**0.07**			
Client ID : RW5-SP301-303-50-20241030								
P4652-03	RW5-SP301-303-50-202(WATER	1,4-Dioxane	0.150	J	0.08	0.22	0.22	ug/L
		Total Svoc :			**0.15**			
		Total Concentration:			**0.15**			
Client ID : RW5-SP100-90-20241030								
P4652-04	RW5-SP100-90-2024103(WATER	1,4-Dioxane	10.300	E	0.07	0.2	0.2	ug/L
		Total Svoc :			**10.30**			
		Total Concentration:			**10.30**			
Client ID : RW5-SP100-90-20241030DL								
P4652-04DL	RW5-SP100-90-2024103(WATER	1,4-Dioxane	11.600	D	0.35	1	1	ug/L
		Total Svoc :			**11.60**			
		Total Concentration:			**11.60**			
Client ID : RW5-SP301-303-90-20241030								
P4652-06	RW5-SP301-303-90-202(WATER	1,4-Dioxane	0.080	J	0.07	0.21	0.21	ug/L
		Total Svoc :			**0.08**			
		Total Concentration:			**0.08**			

SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP100-50-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034839.D	1	11/01/24 09:35	11/04/24 14:55	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.10	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		107%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6680	7.589				
1146-65-2	Naphthalene-d8	20200	10.351				
15067-26-2	Acenaphthene-d10	10300	14.218				
1517-22-2	Phenanthrene-d10	20200	16.964				
1719-03-5	Chrysene-d12	12100	21.167				
1520-96-3	Perylene-d12	9720	23.344				

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP100-50-20241030DL	SDG No.:	P4652
Lab Sample ID:	P4652-01DL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034845.D	5	11/01/24 09:35	11/04/24 18:30	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.50	D	0.34	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7130	7.589				
1146-65-2	Naphthalene-d8	21500	10.361				
15067-26-2	Acenaphthene-d10	10800	14.222				
1517-22-2	Phenanthrene-d10	21100	16.97				
1719-03-5	Chrysene-d12	11100	21.16				
1520-96-3	Perylene-d12	8620	23.341				

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MDL = Method Detection Limit
LOD = Limit of Detection
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M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP201-50-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034840.D	1	11/01/24 09:35	11/04/24 15:31	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.070	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		110%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6350	7.589				
1146-65-2	Naphthalene-d8	18900	10.351				
15067-26-2	Acenaphthene-d10	9400	14.222				
1517-22-2	Phenanthrene-d10	18700	16.97				
1719-03-5	Chrysene-d12	10300	21.16				
1520-96-3	Perylene-d12	7620	23.338				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
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* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP301-303-50-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-03	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034841.D	1	11/01/24 09:35	11/04/24 16:07	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.15	J	0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6320	7.589				
1146-65-2	Naphthalene-d8	18800	10.351				
15067-26-2	Acenaphthene-d10	9340	14.222				
1517-22-2	Phenanthrene-d10	18300	16.97				
1719-03-5	Chrysene-d12	10300	21.16				
1520-96-3	Perylene-d12	7660	23.341				

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP100-90-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-04	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034857.D	1	11/01/24 09:35	11/05/24 01:45	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	10.3	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6730	7.589				
1146-65-2	Naphthalene-d8	20800	10.351				
15067-26-2	Acenaphthene-d10	10500	14.222				
1517-22-2	Phenanthrene-d10	19800	16.97				
1719-03-5	Chrysene-d12	10100	21.16				
1520-96-3	Perylene-d12	7240	23.341				

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP100-90-20241030DL	SDG No.:	P4652
Lab Sample ID:	P4652-04DL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034865.D	5	11/01/24 09:35	11/05/24 11:13	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	11.6	D	0.35	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		109%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6430	7.589				
1146-65-2	Naphthalene-d8	19400	10.351				
15067-26-2	Acenaphthene-d10	9320	14.222				
1517-22-2	Phenanthrene-d10	18200	16.97				
1719-03-5	Chrysene-d12	9600	21.16				
1520-96-3	Perylene-d12	7190	23.338				

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP201-90-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-05	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034843.D	1	11/01/24 09:35	11/04/24 17:19	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5980	7.589				
1146-65-2	Naphthalene-d8	18200	10.361				
15067-26-2	Acenaphthene-d10	9000	14.222				
1517-22-2	Phenanthrene-d10	17900	16.97				
1719-03-5	Chrysene-d12	9270	21.16				
1520-96-3	Perylene-d12	6570	23.341				

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP301-303-90-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-06	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034844.D	1	11/01/24 09:35	11/04/24 17:54	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.080	J	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6790	7.589				
1146-65-2	Naphthalene-d8	20500	10.351				
15067-26-2	Acenaphthene-d10	10000	14.218				
1517-22-2	Phenanthrene-d10	19700	16.964				
1719-03-5	Chrysene-d12	10400	21.158				
1520-96-3	Perylene-d12	7680	23.342				

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

Alliance TECHNICAL GROUP
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Surrogate Summary

SW-846

SDG No.: P4652

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
P4652-01	RW5-SP100-50-20241030	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.43	107		30	150
		Nitrobenzene-d5	0.4	0.39	96		55	111
		2-Fluorobiphenyl	0.4	0.39	96		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
P4652-01DL	RW5-SP100-50-20241030DL	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.39	96		55	111
		2-Fluorobiphenyl	0.4	0.39	96		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
P4652-02	RW5-SP201-50-20241030	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.44	110	*	53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
P4652-03	RW5-SP301-303-50-20241030	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.45	111		58	132
P4652-04	RW5-SP100-90-20241030	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
P4652-04DL	RW5-SP100-90-20241030DL	2-Methylnaphthalene-d10	0.4	0.37	91		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.44	109		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
P4652-05	RW5-SP201-90-20241030	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
P4652-06	RW5-SP301-303-90-20241030	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
PB164594BL	PB164594BL	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
PB164594BS	PB164594BS	2-Methylnaphthalene-d10	0.4	0.49	123		30	150
		Fluoranthene-d10	0.4	0.32	80		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.52	129		58	132
PB164594BSD	PB164594BSD	2-Methylnaphthalene-d10	0.4	0.48	121		30	150

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Surrogate Summary

SW-846

SDG No.: P4652

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB164594BSD	PB164594BSD	Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.44	109	*	53	106
		Terphenyl-d14	0.4	0.52	131		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4652

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN034859.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164594BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4652

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN034860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164594BSD	1,4-Dioxane	0.4	0.39	ug/L	98	5			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164594BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

Lab File ID: BN034864.D Lab Sample ID: PB164594BL

Instrument ID: BNA_N Date Extracted: 11/01/2024

Matrix: (soil/water) Water Date Analyzed: 11/05/2024

Level: (low/med) LOW Time Analyzed: 10:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RW5-SP100-50-20241030	P4652-01	BN034839.D	11/04/2024
RW5-SP201-50-20241030	P4652-02	BN034840.D	11/04/2024
RW5-SP301-303-50-20241030	P4652-03	BN034841.D	11/04/2024
RW5-SP201-90-20241030	P4652-05	BN034843.D	11/04/2024
RW5-SP301-303-90-20241030	P4652-06	BN034844.D	11/04/2024
RW5-SP100-90-20241030	P4652-04	BN034857.D	11/05/2024
PB164594BS	PB164594BS	BN034859.D	11/05/2024
PB164594BSD	PB164594BSD	BN034860.D	11/05/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4652 SDG NO.: P4652

Lab File ID: BN034739.D DFTPP Injection Date: 10/30/2024

Instrument ID: BNA_N DFTPP Injection Time: 08:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.7
68	Less than 2.0% of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	40
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	53.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	21.7
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	9.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.3 (18.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN034740.D	10/30/2024	09:20
SSTDICC0.2	SSTDICC0.2	BN034741.D	10/30/2024	09:56
SSTDICCC0.4	SSTDICCC0.4	BN034742.D	10/30/2024	10:32
SSTDICC0.8	SSTDICC0.8	BN034743.D	10/30/2024	11:08
SSTDICC1.6	SSTDICC1.6	BN034744.D	10/30/2024	11:44
SSTDICC3.2	SSTDICC3.2	BN034745.D	10/30/2024	12:20
SSTDICC5.0	SSTDICC5.0	BN034746.D	10/30/2024	12:56

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4652 SDG NO.: P4652

Lab File ID: BN034836.D DFTPP Injection Date: 11/04/2024

Instrument ID: BNA_N DFTPP Injection Time: 09:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	44.3
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	56.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	22.1
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	7.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.7 (18.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN034837.D	11/04/2024	10:45
RW5-SP100-50-20241030	P4652-01	BN034839.D	11/04/2024	14:55
RW5-SP201-50-20241030	P4652-02	BN034840.D	11/04/2024	15:31
RW5-SP301-303-50-20241030	P4652-03	BN034841.D	11/04/2024	16:07
RW5-SP201-90-20241030	P4652-05	BN034843.D	11/04/2024	17:19
RW5-SP301-303-90-20241030	P4652-06	BN034844.D	11/04/2024	17:54
RW5-SP100-50-20241030DL	P4652-01DL	BN034845.D	11/04/2024	18:30
SSTDCCC0.4EC	SSTDCCC0.4	BN034848.D	11/04/2024	20:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4652 SDG NO.: P4652

Lab File ID: BN034849.D DFTPP Injection Date: 11/04/2024

Instrument ID: BNA_N DFTPP Injection Time: 20:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	53.1
68	Less than 2.0% of mass 69	0.8 (1.6) 1
69	Mass 69 relative abundance	49
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	61.5
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	24.1
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.1 (19.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN034850.D	11/04/2024	21:33
RW5-SP100-90-20241030	P4652-04	BN034857.D	11/05/2024	01:45
PB164594BS	PB164594BS	BN034859.D	11/05/2024	02:57
PB164594BSD	PB164594BSD	BN034860.D	11/05/2024	03:33
SSTDCCC0.4EC	SSTDCCC0.4	BN034861.D	11/05/2024	04:09

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P4652 SDG NO.: P4652

Lab File ID: BN034862.D DFTPP Injection Date: 11/05/2024

Instrument ID: BNA_N DFTPP Injection Time: 08:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.2
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	53.6
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	61.8
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	20.4
365	Greater than 1% of mass 198	2.3
441	Present, but less than mass 443	7.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	8.3 (18.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN034863.D	11/05/2024	09:23
PB164594BL	PB164594BL	BN034864.D	11/05/2024	10:37
RW5-SP100-90-20241030DL	P4652-04DL	BN034865.D	11/05/2024	11:13
SSTDCCC0.4EC	SSTDCCC0.4	BN034867.D	11/05/2024	12:46

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034837.D Time Analyzed: 10:45

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	8324	7.597	24670	10.36	13111	14.22
	UPPER LIMIT	16648	8.097	49340	10.862	26222	14.722
	LOWER LIMIT	4162	7.097	12335	9.862	6555.5	13.722
	EPA SAMPLE NO.						
01	RW5-SP100-50-20241030	6676	7.59	20196	10.35	10306	14.22
02	RW5-SP201-50-20241030	6345	7.59	18925	10.35	9397	14.22
03	RW5-SP100-50-20241030DL	7125	7.59	21517	10.36	10789	14.22
04	RW5-SP301-303-50-20241030	6316	7.59	18825	10.35	9344	14.22
05	RW5-SP201-90-20241030	5976	7.59	18176	10.36	9002	14.22
06	RW5-SP301-303-90-20241030	6786	7.59	20468	10.35	10029	14.22

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034837.D Time Analyzed: 10:45

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #		RT #
	12 HOUR STD	27070	16.97	17835	21.16	15548		23.344
	UPPER LIMIT	54140	17.47	35670	21.66	31096		23.844
	LOWER LIMIT	13535	16.47	8917.5	20.66	7774		22.844
	EPA SAMPLE NO.							
01	RW5-SP100-50-20241030	20231	16.96	12090	21.17	9717		23.34
02	RW5-SP201-50-20241030	18708	16.97	10340	21.16	7618	*	23.34
03	RW5-SP100-50-20241030DL	21116	16.97	11094	21.16	8617		23.34
04	RW5-SP301-303-50-20241030	18319	16.97	10285	21.16	7661	*	23.34
05	RW5-SP201-90-20241030	17850	16.97	9270	21.16	6568	*	23.34
06	RW5-SP301-303-90-20241030	19743	16.96	10387	21.16	7678	*	23.34

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034850.D Time Analyzed: 21:33

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	7674	7.589	23850	10.35	12009	14.22
	UPPER LIMIT	15348	8.089	47700	10.851	24018	14.722
	LOWER LIMIT	3837	7.089	11925	9.851	6004.5	13.722
	EPA SAMPLE NO.						
01	RW5-SP100-90-20241030	6734	7.59	20759	10.35	10518	14.22
02	PB164594BS	7147	7.59	21161	10.35	10006	14.22
03	PB164594BSD	6749	7.59	19671	10.35	8893	14.22

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034850.D Time Analyzed: 21:33

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #		RT #	IS6 (PRY) AREA #		RT #
	12 HOUR STD	23508	16.97	14579		21.16	11281		23.335
	UPPER LIMIT	47016	17.47	29158		21.66	22562		23.835
	LOWER LIMIT	11754	16.47	7289.5		20.66	5640.5		22.835
	EPA SAMPLE NO.								
01	RW5-SP100-90-20241030	19787	16.97	10095		21.16	7238		23.34
02	PB164594BS	17488	16.97	6741	*	21.16	4990	*	23.34
03	PB164594BSD	15802	16.97	5819	*	21.16	4708	*	23.34

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

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/05/2024

Lab File ID: BN034863.D Time Analyzed: 09:23

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	8979	7.589	27748	10.35	13645	14.22
	UPPER LIMIT	17958	8.089	55496	10.851	27290	14.722
	LOWER LIMIT	4489.5	7.089	13874	9.851	6822.5	13.722
	EPA SAMPLE NO.						
01	PB164594BL	7362	7.59	21619	10.35	10048	14.22
02	RW5-SP100-90-20241030DL	6432	7.59	19375	10.35	9318	14.22

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG NO.: P4652

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/05/2024

Lab File ID: BN034863.D Time Analyzed: 09:23

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	26678	16.97	16206	21.16	12712	23.335
	UPPER LIMIT	53356	17.47	32412	21.66	25424	23.835
	LOWER LIMIT	13339	16.47	8103	20.66	6356	22.835
	EPA SAMPLE NO.						
01	PB164594BL	19701	16.96	9905	21.17	7739	23.34
02	RW5-SP100-90-20241030DL	18184	16.97	9599	21.16	7192	23.34

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

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

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

QC SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164594BL	SDG No.:	P4652
Lab Sample ID:	PB164594BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034864.D	1	11/01/24 09:35	11/05/24 10:37	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7360	7.589				
1146-65-2	Naphthalene-d8	21600	10.351				
15067-26-2	Acenaphthene-d10	10000	14.218				
1517-22-2	Phenanthrene-d10	19700	16.964				
1719-03-5	Chrysene-d12	9910	21.167				
1520-96-3	Perylene-d12	7740	23.344				

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:	PB164594BS			SDG No.:	P4652
Lab Sample ID:	PB164594BS			Matrix:	Water
Analytical Method:	SW8270SIM			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-SIMGroup1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034859.D	1	11/01/24 09:35	11/05/24 02:57	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.49		30 - 150		123%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		80%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		129%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7150	7.589				
1146-65-2	Naphthalene-d8	21200	10.351				
15067-26-2	Acenaphthene-d10	10000	14.222				
1517-22-2	Phenanthrene-d10	17500	16.97				
1719-03-5	Chrysene-d12	6740	21.16				
1520-96-3	Perylene-d12	4990	23.341				

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:	PB164594BSD			SDG No.:	P4652
Lab Sample ID:	PB164594BSD			Matrix:	Water
Analytical Method:	SW8270SIM			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-SIMGroup1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034860.D	1	11/01/24 09:35	11/05/24 03:33	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.39		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.48		30 - 150		121%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		109%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6750	7.589				
1146-65-2	Naphthalene-d8	19700	10.351				
15067-26-2	Acenaphthene-d10	8890	14.222				
1517-22-2	Phenanthrene-d10	15800	16.97				
1719-03-5	Chrysene-d12	5820	21.16				
1520-96-3	Perylene-d12	4710	23.338				

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

CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN103024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 30 13:28:24 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN034740.D 0.2 =BN034741.D 0.4 =BN034742.D 0.8 =BN034743.D 1.6 =BN034744.D 3.2 =BN034745.D 5.0 =BN034746.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.498	0.441	0.407	0.462	0.438	0.418	0.405	0.439	7.62
3)		n-Nitrosodimet...	0.506	0.483	0.437	0.537	0.523	0.484	0.490	0.494	6.58
4)	S	2-Fluorophenol	1.305	1.235	1.096	1.293	1.248	1.144	1.161	1.212	6.55
5)	S	Phenol-d6	1.675	1.592	1.406	1.658	1.625	1.511	1.552	1.574	5.96
6)		bis(2-Chloroet...	1.155	1.134	1.057	1.247	1.211	1.115	1.124	1.149	5.51
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.320	0.305	0.278	0.338	0.328	0.308	0.323	0.314	6.25
9)		Naphthalene	1.150	1.096	0.996	1.191	1.153	1.069	1.087	1.106	5.87
10)		Hexachlorobuta...	0.191	0.182	0.165	0.197	0.190	0.173	0.177	0.182	6.17
11)	SURR	2-Methylnaphth...	0.577	0.560	0.519	0.628	0.617	0.569	0.584	0.579	6.27
12)		2-Methylnaphth...	0.719	0.708	0.649	0.785	0.769	0.709	0.725	0.723	6.16
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.199	0.178	0.158	0.204	0.213	0.206	0.224	0.198	11.32
15)	S	2-Fluorobiphenyl	1.593	1.579	1.360	1.726	1.667	1.542	1.561	1.575	7.29
16)		Acenaphthylene	2.027	1.956	1.678	2.156	2.136	2.018	2.077	2.007	8.02
17)		Acenaphthene	1.338	1.292	1.133	1.458	1.440	1.332	1.368	1.337	8.07
18)		Fluorene	1.692	1.628	1.434	1.816	1.793	1.650	1.653	1.667	7.55
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.043	0.045	0.060	0.065	0.069	0.076	0.059	22.17	
21)		4-Bromophenyl-...	0.235	0.234	0.210	0.246	0.238	0.229	0.229	0.231	4.76
22)		Hexachlorobenzene	0.265	0.262	0.238	0.278	0.267	0.254	0.250	0.259	5.10
23)		Atrazine	0.196	0.190	0.178	0.214	0.214	0.203	0.199	0.199	6.44
24)		Pentachlorophenol	0.102	0.088	0.091	0.114	0.122	0.127	0.138	0.112	16.80
25)		Phenanthrene	1.166	1.168	1.076	1.267	1.233	1.168	1.158	1.176	5.16
26)		Anthracene	1.080	1.074	0.990	1.163	1.177	1.108	1.114	1.101	5.67
27)	SURR	Fluoranthene-d10	0.935	0.883	0.849	1.006	1.019	0.940	0.937	0.938	6.48
28)		Fluoranthene	1.282	1.221	1.174	1.404	1.416	1.296	1.283	1.297	6.82
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	2.207	2.148	1.926	2.280	2.091	2.001	1.987	2.091	6.12
31)	S	Terphenyl-d14	0.911	0.869	0.788	0.931	0.867	0.825	0.822	0.859	5.92
32)		Benzo(a)anthra...	1.620	1.534	1.406	1.721	1.679	1.581	1.606	1.592	6.45
33)		Chrysene	1.596	1.522	1.406	1.688	1.644	1.519	1.538	1.559	5.98
34)		Bis(2-ethylhex...	1.487	1.243	1.291	1.388	1.332	1.237	1.342	1.331	6.57
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN103024.M

36)		Indeno(1,2,3-c...	1.517	1.552	1.332	1.572	1.482	1.423	1.421	1.471	5.76
37)		Benzo(b)fluora...	1.589	1.500	1.450	1.753	1.730	1.619	1.632	1.610	6.87
38)		Benzo(k)fluora...	1.562	1.491	1.396	1.704	1.653	1.605	1.588	1.571	6.52
39)	C	Benzo(a)pyrene	1.315	1.277	1.181	1.434	1.404	1.336	1.355	1.329	6.31
40)		Dibenzo(a,h)an...	1.189	1.210	1.035	1.230	1.152	1.110	1.107	1.147	5.98
41)		Benzo(g,h,i)pe...	1.302	1.335	1.138	1.329	1.223	1.185	1.170	1.240	6.54

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/04/2024 10:45

Lab File ID: BN034837.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.509		-12.1	20.0
Fluoranthene-d10	0.938	0.850		-9.4	20.0
2-Fluorophenol	1.212	1.321		9.0	20.0
Phenol-d6	1.574	1.765		12.1	20.0
Nitrobenzene-d5	0.314	0.267		-15.0	20.0
2-Fluorobiphenyl	1.575	1.431		-9.1	20.0
2,4,6-Tribromophenol	0.198	0.184		-7.1	20.0
Terphenyl-d14	0.859	0.704		-18.0	20.0
1,4-Dioxane	0.439	0.380		-13.4	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/04/2024 20:18

Lab File ID: BN034848.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.488		-15.7	50.0
Fluoranthene-d10	0.938	0.802		-14.5	50.0
2-Fluorophenol	1.212	1.008		-16.8	50.0
Phenol-d6	1.574	1.339		-14.9	50.0
Nitrobenzene-d5	0.314	0.263		-16.2	50.0
2-Fluorobiphenyl	1.575	1.392		-11.6	50.0
2,4,6-Tribromophenol	0.198	0.112		-43.4	50.0
Terphenyl-d14	0.859	0.716		-16.6	50.0
1,4-Dioxane	0.439	0.402		-8.4	50.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/04/2024 21:33

Lab File ID: BN034850.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.495		-14.5	20.0
Fluoranthene-d10	0.938	0.829		-11.6	20.0
2-Fluorophenol	1.212	1.320		8.9	20.0
Phenol-d6	1.574	1.837		16.7	20.0
Nitrobenzene-d5	0.314	0.268		-14.6	20.0
2-Fluorobiphenyl	1.575	1.396		-11.4	20.0
2,4,6-Tribromophenol	0.198	0.157		-20.7	20.0
Terphenyl-d14	0.859	0.690		-19.7	20.0
1,4-Dioxane	0.439	0.410		-6.6	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/05/2024 04:09

Lab File ID: BN034861.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.506		-12.6	50.0
Fluoranthene-d10	0.938	0.812		-13.4	50.0
2-Fluorophenol	1.212	1.041		-14.1	50.0
Phenol-d6	1.574	1.409		-10.5	50.0
Nitrobenzene-d5	0.314	0.279		-11.1	50.0
2-Fluorobiphenyl	1.575	1.451		-7.9	50.0
2,4,6-Tribromophenol	0.198	0.105		-47.0	50.0
Terphenyl-d14	0.859	0.735		-14.4	50.0
1,4-Dioxane	0.439	0.451		2.7	50.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/05/2024 09:23

Lab File ID: BN034863.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.493		-14.9	20.0
Fluoranthene-d10	0.938	0.814		-13.2	20.0
2-Fluorophenol	1.212	1.283		5.9	20.0
Phenol-d6	1.574	1.818		15.5	20.0
Nitrobenzene-d5	0.314	0.275		-12.4	20.0
2-Fluorobiphenyl	1.575	1.404		-10.9	20.0
2,4,6-Tribromophenol	0.198	0.147		-25.8	20.0
Terphenyl-d14	0.859	0.683		-20.5	20.0
1,4-Dioxane	0.439	0.397		-9.6	20.0

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4652 SAS No.: P4652 SDG No.: P4652

Instrument ID: BNA_N Calibration Date/Time: 11/05/2024 12:46

Lab File ID: BN034867.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.483		-16.6	50.0
Fluoranthene-d10	0.938	0.785		-16.3	50.0
2-Fluorophenol	1.212	0.999		-17.6	50.0
Phenol-d6	1.574	1.370		-13.0	50.0
Nitrobenzene-d5	0.314	0.275		-12.4	50.0
2-Fluorobiphenyl	1.575	1.390		-11.7	50.0
2,4,6-Tribromophenol	0.198	0.099		-50.0	50.0
Terphenyl-d14	0.859	0.680		-20.8	50.0
1,4-Dioxane	0.439	0.427		-2.7	50.0

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	P4652	**OrderDate:**	10/31/2024 11:11:00 AM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	K61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4652-01	**RW5-SP100-50-20241030**	**Water**			**10/30/24**			**10/31/24**
			Mercury	7470A		11/04/24	11/05/24	
			Metals ICP-TAL	6010D		11/04/24	11/06/24	
P4652-03	**RW5-SP301-303-50-20241030**	**Water**			**10/30/24**			**10/31/24**
			Mercury	7470A		11/04/24	11/05/24	
			Metals ICP-TAL	6010D		11/04/24	11/06/24	
P4652-04	**RW5-SP100-90-20241030**	**Water**			**10/30/24**			**10/31/24**
			Mercury	7470A		11/04/24	11/05/24	
			Metals ICP-TAL	6010D		11/04/24	11/06/24	
P4652-06	**RW5-SP301-303-90-20241030**	**Water**			**10/30/24**			**10/31/24**
			Mercury	7470A		11/04/24	11/05/24	
			Metals ICP-TAL	6010D		11/04/24	11/06/24	

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Hit Summary Sheet
SW-846

SDG No.: P4652 **Order ID:** P4652

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW5-SP100-50-20241030									
P4652-01	RW5-SP100-50-20241030	Water	Cadmium	0.42	J	0.094	0.75	3.00	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Calcium	3470		33.0	250	1000	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Chromium	1.76	J	0.66	2.50	5.00	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Cobalt	3.76	J	0.50	3.75	15.0	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Iron	9990		18.5	40.0	50.0	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Lead	3.89	J	3.51	4.80	6.00	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Magnesium	1300		39.4	250	1000	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Manganese	180		1.46	2.50	10.0	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Nickel	10.8	J	0.85	5.00	20.0	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Sodium	11900		237	500	1000	ug/L
P4652-01	RW5-SP100-50-20241030	Water	Zinc	27.9		1.75	5.00	20.0	ug/L
Client ID : RW5-SP301-303-50-20241030									
P4652-03	RW5-SP301-303-50-20241030	Water	Calcium	506	J	33.0	250	1000	ug/L
P4652-03	RW5-SP301-303-50-20241030	Water	Chromium	4.13	J	0.66	2.50	5.00	ug/L
P4652-03	RW5-SP301-303-50-20241030	Water	Iron	2690		18.5	40.0	50.0	ug/L
P4652-03	RW5-SP301-303-50-20241030	Water	Magnesium	298	J	39.4	250	1000	ug/L
P4652-03	RW5-SP301-303-50-20241030	Water	Manganese	32.5		1.46	2.50	10.0	ug/L
P4652-03	RW5-SP301-303-50-20241030	Water	Nickel	7.21	J	0.85	5.00	20.0	ug/L
P4652-03	RW5-SP301-303-50-20241030	Water	Potassium	198000		685	800	1000	ug/L
P4652-03	RW5-SP301-303-50-20241030	Water	Sodium	47600		237	500	1000	ug/L
P4652-03	RW5-SP301-303-50-20241030	Water	Zinc	11.0	J	1.75	5.00	20.0	ug/L
Client ID : RW5-SP100-90-20241030									
P4652-04	RW5-SP100-90-20241030	Water	Calcium	3370		33.0	250	1000	ug/L
P4652-04	RW5-SP100-90-20241030	Water	Cobalt	2.76	J	0.50	3.75	15.0	ug/L
P4652-04	RW5-SP100-90-20241030	Water	Iron	1530		18.5	40.0	50.0	ug/L
P4652-04	RW5-SP100-90-20241030	Water	Lead	5.01	J	3.51	4.80	6.00	ug/L
P4652-04	RW5-SP100-90-20241030	Water	Magnesium	1280		39.4	250	1000	ug/L
P4652-04	RW5-SP100-90-20241030	Water	Manganese	33.1		1.46	2.50	10.0	ug/L
P4652-04	RW5-SP100-90-20241030	Water	Nickel	4.24	J	0.85	5.00	20.0	ug/L
P4652-04	RW5-SP100-90-20241030	Water	Sodium	12200		237	500	1000	ug/L
P4652-04	RW5-SP100-90-20241030	Water	Zinc	18.9	J	1.75	5.00	20.0	ug/L
Client ID : RW5-SP301-303-90-20241030									
P4652-06	RW5-SP301-303-90-20241030	Water	Calcium	197	J	33.0	250	1000	ug/L
P4652-06	RW5-SP301-303-90-20241030	Water	Chromium	2.48	J	0.66	2.50	5.00	ug/L
P4652-06	RW5-SP301-303-90-20241030	Water	Iron	424		18.5	40.0	50.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: P4652 **Order ID:** P4652

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
P4652-06	RW5-SP301-303-90-20241030	Water	Magnesium	106	J	39.4	250	1000	ug/L
P4652-06	RW5-SP301-303-90-20241030	Water	Manganese	6.86	J	1.46	2.50	10.0	ug/L
P4652-06	RW5-SP301-303-90-20241030	Water	Nickel	1.12	J	0.85	5.00	20.0	ug/L
P4652-06	RW5-SP301-303-90-20241030	Water	Potassium	63000		685	800	1000	ug/L
P4652-06	RW5-SP301-303-90-20241030	Water	Sodium	24400		237	500	1000	ug/L
P4652-06	RW5-SP301-303-90-20241030	Water	Zinc	2.85	J	1.75	5.00	20.0	ug/L

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP100-50-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-01	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	40.0	U	1	28.3	40.0	50.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-36-0	Antimony	6.25	U	1	2.06	6.25	25.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-38-2	Arsenic	8.00	U	1	3.48	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-39-3	Barium	12.5	UN	1	6.28	12.5	50.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-41-7	Beryllium	0.75	U	1	0.13	0.75	3.00	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-43-9	Cadmium	0.42	J	1	0.094	0.75	3.00	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-70-2	Calcium	3470		1	33.0	250	1000	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-47-3	Chromium	1.76	J	1	0.66	2.50	5.00	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-48-4	Cobalt	3.76	J	1	0.50	3.75	15.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-50-8	Copper	8.00	U	1	7.07	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7439-89-6	Iron	9990		1	18.5	40.0	50.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7439-92-1	Lead	3.89	J	1	3.51	4.80	6.00	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7439-95-4	Magnesium	1300		1	39.4	250	1000	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7439-96-5	Manganese	180		1	1.46	2.50	10.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7439-97-6	Mercury	0.16	UN	1	0.081	0.16	0.20	ug/L	11/04/24 14:40	11/05/24 13:24	SW7470A	
7440-02-0	Nickel	10.8	J	1	0.85	5.00	20.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-09-7	Potassium	800	U	1	685	800	1000	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7782-49-2	Selenium	8.00	U	1	5.88	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-22-4	Silver	2.50	U	1	0.58	2.50	5.00	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-23-5	Sodium	11900	N	1	237	500	1000	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-28-0	Thallium	10.0	U	1	2.32	10.0	20.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-62-2	Vanadium	10.0	UN	1	3.06	10.0	20.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010
7440-66-6	Zinc	27.9	N	1	1.75	5.00	20.0	ug/L	11/04/24 11:30	11/06/24 18:49	SW6010	SW3010

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

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OR = Over Range
N =Spiked sample recovery not within control limits

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:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP301-303-50-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	40.0	U	1	28.3	40.0	50.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-36-0	Antimony	6.25	U	1	2.06	6.25	25.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-38-2	Arsenic	8.00	U	1	3.48	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-39-3	Barium	12.5	UN	1	6.28	12.5	50.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-41-7	Beryllium	0.75	U	1	0.13	0.75	3.00	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-43-9	Cadmium	0.75	U	1	0.094	0.75	3.00	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-70-2	Calcium	506	J	1	33.0	250	1000	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-47-3	Chromium	4.13	J	1	0.66	2.50	5.00	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-48-4	Cobalt	3.75	U	1	0.50	3.75	15.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-50-8	Copper	8.00	U	1	7.07	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7439-89-6	Iron	2690		1	18.5	40.0	50.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7439-92-1	Lead	4.80	U	1	3.51	4.80	6.00	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7439-95-4	Magnesium	298	J	1	39.4	250	1000	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7439-96-5	Manganese	32.5		1	1.46	2.50	10.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7439-97-6	Mercury	0.16	UN	1	0.081	0.16	0.20	ug/L	11/04/24 14:40	11/05/24 13:27	SW7470A	
7440-02-0	Nickel	7.21	J	1	0.85	5.00	20.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-09-7	Potassium	198000		1	685	800	1000	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7782-49-2	Selenium	8.00	U	1	5.88	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-22-4	Silver	2.50	U	1	0.58	2.50	5.00	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-23-5	Sodium	47600	N	1	237	500	1000	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-28-0	Thallium	10.0	U	1	2.32	10.0	20.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-62-2	Vanadium	10.0	UN	1	3.06	10.0	20.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010
7440-66-6	Zinc	11.0	JN	1	1.75	5.00	20.0	ug/L	11/04/24 11:30	11/06/24 19:02	SW6010	SW3010

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

U = Not Detected
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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP100-90-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	40.0	U	1	28.3	40.0	50.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-36-0	Antimony	6.25	U	1	2.06	6.25	25.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-38-2	Arsenic	8.00	U	1	3.48	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-39-3	Barium	12.5	UN	1	6.28	12.5	50.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-41-7	Beryllium	0.75	U	1	0.13	0.75	3.00	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-43-9	Cadmium	0.75	U	1	0.094	0.75	3.00	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-70-2	Calcium	3370		1	33.0	250	1000	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-47-3	Chromium	2.50	U	1	0.66	2.50	5.00	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-48-4	Cobalt	2.76	J	1	0.50	3.75	15.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-50-8	Copper	8.00	U	1	7.07	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7439-89-6	Iron	1530		1	18.5	40.0	50.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7439-92-1	Lead	5.01	J	1	3.51	4.80	6.00	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7439-95-4	Magnesium	1280		1	39.4	250	1000	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7439-96-5	Manganese	33.1		1	1.46	2.50	10.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7439-97-6	Mercury	0.16	UN	1	0.081	0.16	0.20	ug/L	11/04/24 14:40	11/05/24 13:36	SW7470A	
7440-02-0	Nickel	4.24	J	1	0.85	5.00	20.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-09-7	Potassium	800	U	1	685	800	1000	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7782-49-2	Selenium	8.00	U	1	5.88	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-22-4	Silver	2.50	U	1	0.58	2.50	5.00	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-23-5	Sodium	12200	N	1	237	500	1000	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-28-0	Thallium	10.0	U	1	2.32	10.0	20.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-62-2	Vanadium	10.0	UN	1	3.06	10.0	20.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010
7440-66-6	Zinc	18.9	JN	1	1.75	5.00	20.0	ug/L	11/04/24 11:30	11/06/24 19:06	SW6010	SW3010

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

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OR = Over Range
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/30/24
Project:	CTO WE13	Date Received:	10/31/24
Client Sample ID:	RW5-SP301-303-90-20241030	SDG No.:	P4652
Lab Sample ID:	P4652-06	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	40.0	U	1	28.3	40.0	50.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-36-0	Antimony	6.25	U	1	2.06	6.25	25.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-38-2	Arsenic	8.00	U	1	3.48	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-39-3	Barium	12.5	UN	1	6.28	12.5	50.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-41-7	Beryllium	0.75	U	1	0.13	0.75	3.00	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-43-9	Cadmium	0.75	U	1	0.094	0.75	3.00	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-70-2	Calcium	197	J	1	33.0	250	1000	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-47-3	Chromium	2.48	J	1	0.66	2.50	5.00	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-48-4	Cobalt	3.75	U	1	0.50	3.75	15.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-50-8	Copper	8.00	U	1	7.07	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7439-89-6	Iron	424		1	18.5	40.0	50.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7439-92-1	Lead	4.80	U	1	3.51	4.80	6.00	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7439-95-4	Magnesium	106	J	1	39.4	250	1000	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7439-96-5	Manganese	6.86	J	1	1.46	2.50	10.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7439-97-6	Mercury	0.16	UN	1	0.081	0.16	0.20	ug/L	11/04/24 14:40	11/05/24 13:38	SW7470A	
7440-02-0	Nickel	1.12	J	1	0.85	5.00	20.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-09-7	Potassium	63000		1	685	800	1000	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7782-49-2	Selenium	8.00	U	1	5.88	8.00	10.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-22-4	Silver	2.50	U	1	0.58	2.50	5.00	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-23-5	Sodium	24400	N	1	237	500	1000	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-28-0	Thallium	10.0	U	1	2.32	10.0	20.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-62-2	Vanadium	10.0	UN	1	3.06	10.0	20.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010
7440-66-6	Zinc	2.85	JN	1	1.75	5.00	20.0	ug/L	11/04/24 11:30	11/06/24 19:11	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
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N =Spiked sample recovery not within control limits

METAL CALIBRATION DATA

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

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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
ICV69	Mercury	3.87	4.0	97	90 - 110	CV	11/05/2024	11:58	LB133297

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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
CCV26	Mercury	4.76	5.0	95	90 - 110	CV	11/05/2024	12:03	LB133297
CCV27	Mercury	4.98	5.0	100	90 - 110	CV	11/05/2024	12:30	LB133297
CCV28	Mercury	4.94	5.0	99	90 - 110	CV	11/05/2024	12:57	LB133297
CCV29	Mercury	5.12	5.0	102	90 - 110	CV	11/05/2024	13:32	LB133297
CCV30	Mercury	5.20	5.0	104	90 - 110	CV	11/05/2024	14:08	LB133297
CCV31	Mercury	5.44	5.0	109	90 - 110	CV	11/05/2024	14:29	LB133297
CCV32	Mercury	5.11	5.0	102	90 - 110	CV	11/05/2024	14:42	LB133297

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	2550	2500	102	90 - 110	P	11/06/2024	17:34	LB133323
	Antimony	981	1000	98	90 - 110	P	11/06/2024	17:34	LB133323
	Arsenic	1010	1000	101	90 - 110	P	11/06/2024	17:34	LB133323
	Barium	522	520	100	90 - 110	P	11/06/2024	17:34	LB133323
	Beryllium	520	510	102	90 - 110	P	11/06/2024	17:34	LB133323
	Cadmium	500	510	98	90 - 110	P	11/06/2024	17:34	LB133323
	Calcium	10200	10000	102	90 - 110	P	11/06/2024	17:34	LB133323
	Chromium	529	520	102	90 - 110	P	11/06/2024	17:34	LB133323
	Cobalt	506	520	97	90 - 110	P	11/06/2024	17:34	LB133323
	Copper	516	510	101	90 - 110	P	11/06/2024	17:34	LB133323
	Iron	10100	10000	101	90 - 110	P	11/06/2024	17:34	LB133323
	Lead	1000	1000	100	90 - 110	P	11/06/2024	17:34	LB133323
	Magnesium	5990	6000	100	90 - 110	P	11/06/2024	17:34	LB133323
	Manganese	526	520	101	90 - 110	P	11/06/2024	17:34	LB133323
	Nickel	509	530	96	90 - 110	P	11/06/2024	17:34	LB133323
	Potassium	9880	9900	100	90 - 110	P	11/06/2024	17:34	LB133323
	Selenium	1010	1000	101	90 - 110	P	11/06/2024	17:34	LB133323
	Silver	258	250	103	90 - 110	P	11/06/2024	17:34	LB133323
	Sodium	9370	10000	94	90 - 110	P	11/06/2024	17:34	LB133323
	Thallium	1050	1000	105	90 - 110	P	11/06/2024	17:34	LB133323
	Vanadium	503	500	101	90 - 110	P	11/06/2024	17:34	LB133323
	Zinc	1050	1000	104	90 - 110	P	11/06/2024	17:34	LB133323

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/06/2024	17:38	LB133323
	Antimony	48.9	50.0	98	80 - 120	P	11/06/2024	17:38	LB133323
	Arsenic	19.2	20.0	96	80 - 120	P	11/06/2024	17:38	LB133323
	Barium	104	100	104	80 - 120	P	11/06/2024	17:38	LB133323
	Beryllium	6.08	6.0	101	80 - 120	P	11/06/2024	17:38	LB133323
	Cadmium	6.52	6.0	109	80 - 120	P	11/06/2024	17:38	LB133323
	Calcium	2060	2000	103	80 - 120	P	11/06/2024	17:38	LB133323
	Chromium	9.84	10.0	98	80 - 120	P	11/06/2024	17:38	LB133323
	Cobalt	29.1	30.0	97	80 - 120	P	11/06/2024	17:38	LB133323
	Copper	21.7	20.0	108	80 - 120	P	11/06/2024	17:38	LB133323
	Iron	95.1	100	95	80 - 120	P	11/06/2024	17:38	LB133323
	Lead	12.2	12.0	102	80 - 120	P	11/06/2024	17:38	LB133323
	Magnesium	2030	2000	102	80 - 120	P	11/06/2024	17:38	LB133323
	Manganese	21.2	20.0	106	80 - 120	P	11/06/2024	17:38	LB133323
	Nickel	40.6	40.0	102	80 - 120	P	11/06/2024	17:38	LB133323
	Potassium	1990	2000	99	80 - 120	P	11/06/2024	17:38	LB133323
	Selenium	20.1	20.0	100	80 - 120	P	11/06/2024	17:38	LB133323
	Silver	10.1	10.0	101	80 - 120	P	11/06/2024	17:38	LB133323
	Sodium	1680	2000	84	80 - 120	P	11/06/2024	17:38	LB133323
	Thallium	41.1	40.0	103	80 - 120	P	11/06/2024	17:38	LB133323
	Vanadium	40.9	40.0	102	80 - 120	P	11/06/2024	17:38	LB133323
	Zinc	44.7	40.0	112	80 - 120	P	11/06/2024	17:38	LB133323

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	10100	10000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Antimony	5020	5000	100	90 - 110	P	11/06/2024	18:23	LB133323
	Arsenic	5050	5000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Barium	10300	10000	103	90 - 110	P	11/06/2024	18:23	LB133323
	Beryllium	255	250	102	90 - 110	P	11/06/2024	18:23	LB133323
	Cadmium	2500	2500	100	90 - 110	P	11/06/2024	18:23	LB133323
	Calcium	25300	25000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Chromium	1010	1000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Cobalt	2490	2500	100	90 - 110	P	11/06/2024	18:23	LB133323
	Copper	1260	1250	101	90 - 110	P	11/06/2024	18:23	LB133323
	Iron	4970	5000	99	90 - 110	P	11/06/2024	18:23	LB133323
	Lead	5010	5000	100	90 - 110	P	11/06/2024	18:23	LB133323
	Magnesium	25100	25000	100	90 - 110	P	11/06/2024	18:23	LB133323
	Manganese	2540	2500	102	90 - 110	P	11/06/2024	18:23	LB133323
	Nickel	2500	2500	100	90 - 110	P	11/06/2024	18:23	LB133323
	Potassium	24900	25000	100	90 - 110	P	11/06/2024	18:23	LB133323
	Selenium	5060	5000	101	90 - 110	P	11/06/2024	18:23	LB133323
	Silver	1250	1250	100	90 - 110	P	11/06/2024	18:23	LB133323
	Sodium	25800	25000	103	90 - 110	P	11/06/2024	18:23	LB133323
	Thallium	5280	5000	106	90 - 110	P	11/06/2024	18:23	LB133323
	Vanadium	2530	2500	101	90 - 110	P	11/06/2024	18:23	LB133323
	Zinc	2470	2500	99	90 - 110	P	11/06/2024	18:23	LB133323
CCV02	Aluminum	10000	10000	100	90 - 110	P	11/06/2024	18:39	LB133323
	Antimony	4960	5000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Arsenic	4940	5000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Barium	10100	10000	101	90 - 110	P	11/06/2024	18:39	LB133323
	Beryllium	256	250	102	90 - 110	P	11/06/2024	18:39	LB133323
	Cadmium	2480	2500	99	90 - 110	P	11/06/2024	18:39	LB133323
	Calcium	25300	25000	101	90 - 110	P	11/06/2024	18:39	LB133323
	Chromium	993	1000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Cobalt	2480	2500	99	90 - 110	P	11/06/2024	18:39	LB133323
	Copper	1240	1250	99	90 - 110	P	11/06/2024	18:39	LB133323
	Iron	4880	5000	98	90 - 110	P	11/06/2024	18:39	LB133323
	Lead	4970	5000	99	90 - 110	P	11/06/2024	18:39	LB133323

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	25100	25000	100	90 - 110	P	11/06/2024	18:39	LB133323
	Manganese	2540	2500	102	90 - 110	P	11/06/2024	18:39	LB133323
	Nickel	2480	2500	99	90 - 110	P	11/06/2024	18:39	LB133323
	Potassium	24200	25000	97	90 - 110	P	11/06/2024	18:39	LB133323
	Selenium	4960	5000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Silver	1230	1250	99	90 - 110	P	11/06/2024	18:39	LB133323
	Sodium	24700	25000	99	90 - 110	P	11/06/2024	18:39	LB133323
	Thallium	5160	5000	103	90 - 110	P	11/06/2024	18:39	LB133323
	Vanadium	2530	2500	101	90 - 110	P	11/06/2024	18:39	LB133323
	Zinc	2430	2500	97	90 - 110	P	11/06/2024	18:39	LB133323
CCV03	Aluminum	9900	10000	99	90 - 110	P	11/06/2024	19:32	LB133323
	Antimony	4880	5000	98	90 - 110	P	11/06/2024	19:32	LB133323
	Arsenic	4870	5000	98	90 - 110	P	11/06/2024	19:32	LB133323
	Barium	10100	10000	101	90 - 110	P	11/06/2024	19:32	LB133323
	Beryllium	254	250	102	90 - 110	P	11/06/2024	19:32	LB133323
	Cadmium	2450	2500	98	90 - 110	P	11/06/2024	19:32	LB133323
	Calcium	25100	25000	100	90 - 110	P	11/06/2024	19:32	LB133323
	Chromium	1010	1000	100	90 - 110	P	11/06/2024	19:32	LB133323
	Cobalt	2450	2500	98	90 - 110	P	11/06/2024	19:32	LB133323
	Copper	1220	1250	98	90 - 110	P	11/06/2024	19:32	LB133323
	Iron	5050	5000	101	90 - 110	P	11/06/2024	19:32	LB133323
	Lead	4910	5000	98	90 - 110	P	11/06/2024	19:32	LB133323
	Magnesium	24700	25000	99	90 - 110	P	11/06/2024	19:32	LB133323
	Manganese	2510	2500	100	90 - 110	P	11/06/2024	19:32	LB133323
	Nickel	2450	2500	98	90 - 110	P	11/06/2024	19:32	LB133323
	Potassium	25200	25000	101	90 - 110	P	11/06/2024	19:32	LB133323
	Selenium	4880	5000	98	90 - 110	P	11/06/2024	19:32	LB133323
	Silver	1260	1250	101	90 - 110	P	11/06/2024	19:32	LB133323
	Sodium	26100	25000	104	90 - 110	P	11/06/2024	19:32	LB133323
	Thallium	5030	5000	101	90 - 110	P	11/06/2024	19:32	LB133323
	Vanadium	2490	2500	100	90 - 110	P	11/06/2024	19:32	LB133323
	Zinc	2440	2500	98	90 - 110	P	11/06/2024	19:32	LB133323
CCV04	Aluminum	10000	10000	100	90 - 110	P	11/06/2024	20:22	LB133323
	Antimony	5040	5000	101	90 - 110	P	11/06/2024	20:22	LB133323

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	5070	5000	101	90 - 110	P	11/06/2024	20:22	LB133323
	Barium	10200	10000	102	90 - 110	P	11/06/2024	20:22	LB133323
	Beryllium	257	250	103	90 - 110	P	11/06/2024	20:22	LB133323
	Cadmium	2540	2500	102	90 - 110	P	11/06/2024	20:22	LB133323
	Calcium	25200	25000	101	90 - 110	P	11/06/2024	20:22	LB133323
	Chromium	1010	1000	100	90 - 110	P	11/06/2024	20:22	LB133323
	Cobalt	2530	2500	101	90 - 110	P	11/06/2024	20:22	LB133323
	Copper	1270	1250	102	90 - 110	P	11/06/2024	20:22	LB133323
	Iron	4920	5000	98	90 - 110	P	11/06/2024	20:22	LB133323
	Lead	5080	5000	102	90 - 110	P	11/06/2024	20:22	LB133323
	Magnesium	24900	25000	100	90 - 110	P	11/06/2024	20:22	LB133323
	Manganese	2520	2500	101	90 - 110	P	11/06/2024	20:22	LB133323
	Nickel	2540	2500	101	90 - 110	P	11/06/2024	20:22	LB133323
	Potassium	24500	25000	98	90 - 110	P	11/06/2024	20:22	LB133323
	Selenium	5060	5000	101	90 - 110	P	11/06/2024	20:22	LB133323
	Silver	1250	1250	100	90 - 110	P	11/06/2024	20:22	LB133323
	Sodium	25500	25000	102	90 - 110	P	11/06/2024	20:22	LB133323
	Thallium	5290	5000	106	90 - 110	P	11/06/2024	20:22	LB133323
	Vanadium	2510	2500	100	90 - 110	P	11/06/2024	20:22	LB133323
	Zinc	2450	2500	98	90 - 110	P	11/06/2024	20:22	LB133323
CCV05	Aluminum	10300	10000	103	90 - 110	P	11/06/2024	21:13	LB133323
	Antimony	5050	5000	101	90 - 110	P	11/06/2024	21:13	LB133323
	Arsenic	5070	5000	102	90 - 110	P	11/06/2024	21:13	LB133323
	Barium	10500	10000	105	90 - 110	P	11/06/2024	21:13	LB133323
	Beryllium	265	250	106	90 - 110	P	11/06/2024	21:13	LB133323
	Cadmium	2570	2500	103	90 - 110	P	11/06/2024	21:13	LB133323
	Calcium	26100	25000	104	90 - 110	P	11/06/2024	21:13	LB133323
	Chromium	1030	1000	103	90 - 110	P	11/06/2024	21:13	LB133323
	Cobalt	2560	2500	102	90 - 110	P	11/06/2024	21:13	LB133323
	Copper	1270	1250	102	90 - 110	P	11/06/2024	21:13	LB133323
	Iron	5050	5000	101	90 - 110	P	11/06/2024	21:13	LB133323
	Lead	5120	5000	102	90 - 110	P	11/06/2024	21:13	LB133323
	Magnesium	25800	25000	103	90 - 110	P	11/06/2024	21:13	LB133323
	Manganese	2620	2500	105	90 - 110	P	11/06/2024	21:13	LB133323

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	2560	2500	102	90 - 110	P	11/06/2024	21:13	LB133323
	Potassium	25200	25000	101	90 - 110	P	11/06/2024	21:13	LB133323
	Selenium	5060	5000	101	90 - 110	P	11/06/2024	21:13	LB133323
	Silver	1280	1250	102	90 - 110	P	11/06/2024	21:13	LB133323
	Sodium	26400	25000	106	90 - 110	P	11/06/2024	21:13	LB133323
	Thallium	5270	5000	105	90 - 110	P	11/06/2024	21:13	LB133323
	Vanadium	2590	2500	104	90 - 110	P	11/06/2024	21:13	LB133323
	Zinc	2500	2500	100	90 - 110	P	11/06/2024	21:13	LB133323
CCV06	Aluminum	10100	10000	101	90 - 110	P	11/06/2024	22:11	LB133323
	Antimony	4990	5000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Arsenic	4990	5000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Barium	10500	10000	104	90 - 110	P	11/06/2024	22:11	LB133323
	Beryllium	262	250	105	90 - 110	P	11/06/2024	22:11	LB133323
	Cadmium	2510	2500	100	90 - 110	P	11/06/2024	22:11	LB133323
	Calcium	25600	25000	102	90 - 110	P	11/06/2024	22:11	LB133323
	Chromium	1010	1000	101	90 - 110	P	11/06/2024	22:11	LB133323
	Cobalt	2510	2500	100	90 - 110	P	11/06/2024	22:11	LB133323
	Copper	1250	1250	100	90 - 110	P	11/06/2024	22:11	LB133323
	Iron	4880	5000	98	90 - 110	P	11/06/2024	22:11	LB133323
	Lead	5030	5000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Magnesium	25000	25000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Manganese	2530	2500	101	90 - 110	P	11/06/2024	22:11	LB133323
	Nickel	2510	2500	100	90 - 110	P	11/06/2024	22:11	LB133323
	Potassium	24700	25000	99	90 - 110	P	11/06/2024	22:11	LB133323
	Selenium	4990	5000	100	90 - 110	P	11/06/2024	22:11	LB133323
	Silver	1250	1250	100	90 - 110	P	11/06/2024	22:11	LB133323
	Sodium	25900	25000	104	90 - 110	P	11/06/2024	22:11	LB133323
	Thallium	5210	5000	104	90 - 110	P	11/06/2024	22:11	LB133323
	Vanadium	2520	2500	101	90 - 110	P	11/06/2024	22:11	LB133323
	Zinc	2270	2500	91	90 - 110	P	11/06/2024	22:11	LB133323
CCV07	Aluminum	10200	10000	102	90 - 110	P	11/06/2024	23:03	LB133323
	Antimony	5020	5000	100	90 - 110	P	11/06/2024	23:03	LB133323
	Arsenic	5020	5000	100	90 - 110	P	11/06/2024	23:03	LB133323
	Barium	10600	10000	106	90 - 110	P	11/06/2024	23:03	LB133323

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	274	250	110	90 - 110	P	11/06/2024	23:03	LB133323
	Cadmium	2550	2500	102	90 - 110	P	11/06/2024	23:03	LB133323
	Calcium	25900	25000	104	90 - 110	P	11/06/2024	23:03	LB133323
	Chromium	1040	1000	104	90 - 110	P	11/06/2024	23:03	LB133323
	Cobalt	2540	2500	102	90 - 110	P	11/06/2024	23:03	LB133323
	Copper	1260	1250	101	90 - 110	P	11/06/2024	23:03	LB133323
	Iron	5090	5000	102	90 - 110	P	11/06/2024	23:03	LB133323
	Lead	5100	5000	102	90 - 110	P	11/06/2024	23:03	LB133323
	Magnesium	25600	25000	102	90 - 110	P	11/06/2024	23:03	LB133323
	Manganese	2600	2500	104	90 - 110	P	11/06/2024	23:03	LB133323
	Nickel	2550	2500	102	90 - 110	P	11/06/2024	23:03	LB133323
	Potassium	26000	25000	104	90 - 110	P	11/06/2024	23:03	LB133323
	Selenium	5020	5000	100	90 - 110	P	11/06/2024	23:03	LB133323
	Silver	1300	1250	104	90 - 110	P	11/06/2024	23:03	LB133323
	Sodium	27100	25000	108	90 - 110	P	11/06/2024	23:03	LB133323
	Thallium	5240	5000	105	90 - 110	P	11/06/2024	23:03	LB133323
	Vanadium	2560	2500	103	90 - 110	P	11/06/2024	23:03	LB133323
	Zinc	2340	2500	94	90 - 110	P	11/06/2024	23:03	LB133323
CCV08	Aluminum	10000	10000	100	90 - 110	P	11/06/2024	23:59	LB133323
	Antimony	4940	5000	99	90 - 110	P	11/06/2024	23:59	LB133323
	Arsenic	4970	5000	99	90 - 110	P	11/06/2024	23:59	LB133323
	Barium	10400	10000	104	90 - 110	P	11/06/2024	23:59	LB133323
	Beryllium	270	250	108	90 - 110	P	11/06/2024	23:59	LB133323
	Cadmium	2520	2500	101	90 - 110	P	11/06/2024	23:59	LB133323
	Calcium	25500	25000	102	90 - 110	P	11/06/2024	23:59	LB133323
	Chromium	1020	1000	102	90 - 110	P	11/06/2024	23:59	LB133323
	Cobalt	2510	2500	100	90 - 110	P	11/06/2024	23:59	LB133323
	Copper	1240	1250	100	90 - 110	P	11/06/2024	23:59	LB133323
	Iron	4890	5000	98	90 - 110	P	11/06/2024	23:59	LB133323
	Lead	5040	5000	101	90 - 110	P	11/06/2024	23:59	LB133323
	Magnesium	25300	25000	101	90 - 110	P	11/06/2024	23:59	LB133323
	Manganese	2570	2500	103	90 - 110	P	11/06/2024	23:59	LB133323
	Nickel	2510	2500	101	90 - 110	P	11/06/2024	23:59	LB133323
	Potassium	24900	25000	100	90 - 110	P	11/06/2024	23:59	LB133323

Alliance TECHNICAL GROUP
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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	4950	5000	99	90 - 110	P	11/06/2024	23:59	LB133323
	Silver	1260	1250	101	90 - 110	P	11/06/2024	23:59	LB133323
	Sodium	25900	25000	104	90 - 110	P	11/06/2024	23:59	LB133323
	Thallium	5090	5000	102	90 - 110	P	11/06/2024	23:59	LB133323
	Vanadium	2530	2500	101	90 - 110	P	11/06/2024	23:59	LB133323
	Zinc	2400	2500	96	90 - 110	P	11/06/2024	23:59	LB133323
CCV09	Aluminum	9840	10000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Antimony	4890	5000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Arsenic	4880	5000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Barium	10100	10000	101	90 - 110	P	11/07/2024	00:53	LB133323
	Beryllium	260	250	104	90 - 110	P	11/07/2024	00:53	LB133323
	Cadmium	2450	2500	98	90 - 110	P	11/07/2024	00:53	LB133323
	Calcium	24800	25000	99	90 - 110	P	11/07/2024	00:53	LB133323
	Chromium	997	1000	100	90 - 110	P	11/07/2024	00:53	LB133323
	Cobalt	2440	2500	98	90 - 110	P	11/07/2024	00:53	LB133323
	Copper	1220	1250	98	90 - 110	P	11/07/2024	00:53	LB133323
	Iron	4930	5000	99	90 - 110	P	11/07/2024	00:53	LB133323
	Lead	4900	5000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Magnesium	24600	25000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Manganese	2510	2500	100	90 - 110	P	11/07/2024	00:53	LB133323
	Nickel	2450	2500	98	90 - 110	P	11/07/2024	00:53	LB133323
	Potassium	25100	25000	100	90 - 110	P	11/07/2024	00:53	LB133323
	Selenium	4890	5000	98	90 - 110	P	11/07/2024	00:53	LB133323
	Silver	1250	1250	100	90 - 110	P	11/07/2024	00:53	LB133323
	Sodium	26100	25000	104	90 - 110	P	11/07/2024	00:53	LB133323
	Thallium	4980	5000	100	90 - 110	P	11/07/2024	00:53	LB133323
	Vanadium	2500	2500	100	90 - 110	P	11/07/2024	00:53	LB133323
	Zinc	2370	2500	95	90 - 110	P	11/07/2024	00:53	LB133323
CCV10	Aluminum	10100	10000	101	90 - 110	P	11/07/2024	01:49	LB133323
	Antimony	4760	5000	95	90 - 110	P	11/07/2024	01:49	LB133323
	Arsenic	4860	5000	97	90 - 110	P	11/07/2024	01:49	LB133323
	Barium	10100	10000	101	90 - 110	P	11/07/2024	01:49	LB133323
	Beryllium	245	250	98	90 - 110	P	11/07/2024	01:49	LB133323
	Cadmium	2660	2500	106	90 - 110	P	11/07/2024	01:49	LB133323

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	27400	25000	109	90 - 110	P	11/07/2024	01:49	LB133323
	Chromium	1080	1000	108	90 - 110	P	11/07/2024	01:49	LB133323
	Cobalt	2610	2500	104	90 - 110	P	11/07/2024	01:49	LB133323
	Copper	1220	1250	98	90 - 110	P	11/07/2024	01:49	LB133323
	Iron	4960	5000	99	90 - 110	P	11/07/2024	01:49	LB133323
	Lead	5270	5000	105	90 - 110	P	11/07/2024	01:49	LB133323
	Magnesium	23100	25000	92	90 - 110	P	11/07/2024	01:49	LB133323
	Manganese	2710	2500	108	90 - 110	P	11/07/2024	01:49	LB133323
	Nickel	2620	2500	105	90 - 110	P	11/07/2024	01:49	LB133323
	Potassium	23100	25000	92	90 - 110	P	11/07/2024	01:49	LB133323
	Selenium	4770	5000	95	90 - 110	P	11/07/2024	01:49	LB133323
	Silver	1300	1250	104	90 - 110	P	11/07/2024	01:49	LB133323
	Sodium	23600	25000	94	90 - 110	P	11/07/2024	01:49	LB133323
	Thallium	5290	5000	106	90 - 110	P	11/07/2024	01:49	LB133323
	Vanadium	2640	2500	106	90 - 110	P	11/07/2024	01:49	LB133323
	Zinc	2540	2500	102	90 - 110	P	11/07/2024	01:49	LB133323

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	2650	2500	106	90 - 110	P	11/19/2024	11:25	LB133524
	Antimony	1010	1000	101	90 - 110	P	11/19/2024	11:25	LB133524
	Arsenic	1020	1000	102	90 - 110	P	11/19/2024	11:25	LB133524
	Barium	542	520	104	90 - 110	P	11/19/2024	11:25	LB133524
	Beryllium	536	510	105	90 - 110	P	11/19/2024	11:25	LB133524
	Cadmium	526	510	103	90 - 110	P	11/19/2024	11:25	LB133524
	Calcium	10700	10000	107	90 - 110	P	11/19/2024	11:25	LB133524
	Chromium	551	520	106	90 - 110	P	11/19/2024	11:25	LB133524
	Cobalt	531	520	102	90 - 110	P	11/19/2024	11:25	LB133524
	Copper	538	510	105	90 - 110	P	11/19/2024	11:25	LB133524
	Iron	10400	10000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Lead	1040	1000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Magnesium	6280	6000	105	90 - 110	P	11/19/2024	11:25	LB133524
	Manganese	550	520	106	90 - 110	P	11/19/2024	11:25	LB133524
	Nickel	532	530	100	90 - 110	P	11/19/2024	11:25	LB133524
	Potassium	10000	9900	101	90 - 110	P	11/19/2024	11:25	LB133524
	Selenium	1040	1000	104	90 - 110	P	11/19/2024	11:25	LB133524
	Silver	261	250	105	90 - 110	P	11/19/2024	11:25	LB133524
	Sodium	9760	10000	98	90 - 110	P	11/19/2024	11:25	LB133524
	Thallium	1090	1000	109	90 - 110	P	11/19/2024	11:25	LB133524
	Vanadium	524	500	105	90 - 110	P	11/19/2024	11:25	LB133524
	Zinc	1060	1000	106	90 - 110	P	11/19/2024	11:25	LB133524

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	104	100	104	80 - 120	P	11/19/2024	11:34	LB133524
	Antimony	51.1	50.0	102	80 - 120	P	11/19/2024	11:34	LB133524
	Arsenic	20.5	20.0	102	80 - 120	P	11/19/2024	11:34	LB133524
	Barium	104	100	104	80 - 120	P	11/19/2024	11:34	LB133524
	Beryllium	5.85	6.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Cadmium	5.89	6.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Calcium	2090	2000	105	80 - 120	P	11/19/2024	11:34	LB133524
	Chromium	10.7	10.0	107	80 - 120	P	11/19/2024	11:34	LB133524
	Cobalt	29.9	30.0	100	80 - 120	P	11/19/2024	11:34	LB133524
	Copper	22.3	20.0	112	80 - 120	P	11/19/2024	11:34	LB133524
	Iron	100	100	100	80 - 120	P	11/19/2024	11:34	LB133524
	Lead	12.4	12.0	103	80 - 120	P	11/19/2024	11:34	LB133524
	Magnesium	2040	2000	102	80 - 120	P	11/19/2024	11:34	LB133524
	Manganese	21.4	20.0	107	80 - 120	P	11/19/2024	11:34	LB133524
	Nickel	39.7	40.0	99	80 - 120	P	11/19/2024	11:34	LB133524
	Potassium	1920	2000	96	80 - 120	P	11/19/2024	11:34	LB133524
	Selenium	20.6	20.0	103	80 - 120	P	11/19/2024	11:34	LB133524
	Silver	10.1	10.0	101	80 - 120	P	11/19/2024	11:34	LB133524
	Sodium	1820	2000	91	80 - 120	P	11/19/2024	11:34	LB133524
	Thallium	39.2	40.0	98	80 - 120	P	11/19/2024	11:34	LB133524
	Vanadium	40.3	40.0	101	80 - 120	P	11/19/2024	11:34	LB133524
	Zinc	45.8	40.0	114	80 - 120	P	11/19/2024	11:34	LB133524

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	9940	10000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Antimony	4980	5000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Arsenic	4970	5000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Barium	10000	10000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Beryllium	249	250	100	90 - 110	P	11/19/2024	12:43	LB133524
	Cadmium	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Calcium	24800	25000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Chromium	996	1000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Cobalt	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Copper	1260	1250	101	90 - 110	P	11/19/2024	12:43	LB133524
	Iron	4880	5000	98	90 - 110	P	11/19/2024	12:43	LB133524
	Lead	4990	5000	100	90 - 110	P	11/19/2024	12:43	LB133524
	Magnesium	24800	25000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Manganese	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Nickel	2500	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Potassium	24200	25000	97	90 - 110	P	11/19/2024	12:43	LB133524
	Selenium	4950	5000	99	90 - 110	P	11/19/2024	12:43	LB133524
	Silver	1230	1250	98	90 - 110	P	11/19/2024	12:43	LB133524
	Sodium	24200	25000	97	90 - 110	P	11/19/2024	12:43	LB133524
	Thallium	5030	5000	101	90 - 110	P	11/19/2024	12:43	LB133524
	Vanadium	2500	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
	Zinc	2490	2500	100	90 - 110	P	11/19/2024	12:43	LB133524
CCV02	Aluminum	10600	10000	106	90 - 110	P	11/19/2024	13:34	LB133524
	Antimony	5360	5000	107	90 - 110	P	11/19/2024	13:34	LB133524
	Arsenic	5320	5000	106	90 - 110	P	11/19/2024	13:34	LB133524
	Barium	10300	10000	103	90 - 110	P	11/19/2024	13:34	LB133524
	Beryllium	262	250	105	90 - 110	P	11/19/2024	13:34	LB133524
	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	13:34	LB133524
	Calcium	26100	25000	104	90 - 110	P	11/19/2024	13:34	LB133524
	Chromium	1070	1000	107	90 - 110	P	11/19/2024	13:34	LB133524
	Cobalt	2620	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Copper	1350	1250	108	90 - 110	P	11/19/2024	13:34	LB133524
	Iron	5270	5000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Lead	5240	5000	105	90 - 110	P	11/19/2024	13:34	LB133524

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	26200	25000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Manganese	2580	2500	103	90 - 110	P	11/19/2024	13:34	LB133524
	Nickel	2620	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Potassium	26300	25000	105	90 - 110	P	11/19/2024	13:34	LB133524
	Selenium	5340	5000	107	90 - 110	P	11/19/2024	13:34	LB133524
	Silver	1320	1250	106	90 - 110	P	11/19/2024	13:34	LB133524
	Sodium	25900	25000	103	90 - 110	P	11/19/2024	13:34	LB133524
	Thallium	5230	5000	104	90 - 110	P	11/19/2024	13:34	LB133524
	Vanadium	2640	2500	105	90 - 110	P	11/19/2024	13:34	LB133524
	Zinc	2680	2500	107	90 - 110	P	11/19/2024	13:34	LB133524
CCV03	Aluminum	10400	10000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Antimony	5130	5000	103	90 - 110	P	11/19/2024	14:24	LB133524
	Arsenic	5110	5000	102	90 - 110	P	11/19/2024	14:24	LB133524
	Barium	10300	10000	102	90 - 110	P	11/19/2024	14:24	LB133524
	Beryllium	266	250	106	90 - 110	P	11/19/2024	14:24	LB133524
	Cadmium	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Calcium	26000	25000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Chromium	1040	1000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Cobalt	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Copper	1300	1250	104	90 - 110	P	11/19/2024	14:24	LB133524
	Iron	4990	5000	100	90 - 110	P	11/19/2024	14:24	LB133524
	Lead	5200	5000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Magnesium	26000	25000	104	90 - 110	P	11/19/2024	14:24	LB133524
	Manganese	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Nickel	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Potassium	24600	25000	98	90 - 110	P	11/19/2024	14:24	LB133524
	Selenium	5080	5000	102	90 - 110	P	11/19/2024	14:24	LB133524
	Silver	1280	1250	102	90 - 110	P	11/19/2024	14:24	LB133524
	Sodium	24500	25000	98	90 - 110	P	11/19/2024	14:24	LB133524
	Thallium	5160	5000	103	90 - 110	P	11/19/2024	14:24	LB133524
	Vanadium	2600	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
	Zinc	2590	2500	104	90 - 110	P	11/19/2024	14:24	LB133524
CCV04	Aluminum	10400	10000	104	90 - 110	P	11/19/2024	15:31	LB133524
	Antimony	5290	5000	106	90 - 110	P	11/19/2024	15:31	LB133524

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	5260	5000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Barium	10500	10000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Beryllium	261	250	104	90 - 110	P	11/19/2024	15:31	LB133524
	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	15:31	LB133524
	Calcium	25800	25000	103	90 - 110	P	11/19/2024	15:31	LB133524
	Chromium	1050	1000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Cobalt	2610	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
	Copper	1330	1250	106	90 - 110	P	11/19/2024	15:31	LB133524
	Iron	5080	5000	102	90 - 110	P	11/19/2024	15:31	LB133524
	Lead	5230	5000	105	90 - 110	P	11/19/2024	15:31	LB133524
	Magnesium	25800	25000	103	90 - 110	P	11/19/2024	15:31	LB133524
	Manganese	2570	2500	103	90 - 110	P	11/19/2024	15:31	LB133524
	Nickel	2620	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
	Potassium	25500	25000	102	90 - 110	P	11/19/2024	15:31	LB133524
	Selenium	5280	5000	106	90 - 110	P	11/19/2024	15:31	LB133524
	Silver	1290	1250	103	90 - 110	P	11/19/2024	15:31	LB133524
	Sodium	25600	25000	102	90 - 110	P	11/19/2024	15:31	LB133524
	Thallium	5410	5000	108	90 - 110	P	11/19/2024	15:31	LB133524
	Vanadium	2610	2500	104	90 - 110	P	11/19/2024	15:31	LB133524
	Zinc	2620	2500	105	90 - 110	P	11/19/2024	15:31	LB133524
CCV05	Aluminum	10400	10000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Antimony	5220	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Arsenic	5210	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Barium	10300	10000	103	90 - 110	P	11/19/2024	16:18	LB133524
	Beryllium	257	250	103	90 - 110	P	11/19/2024	16:18	LB133524
	Cadmium	2580	2500	103	90 - 110	P	11/19/2024	16:18	LB133524
	Calcium	25600	25000	102	90 - 110	P	11/19/2024	16:18	LB133524
	Chromium	1050	1000	105	90 - 110	P	11/19/2024	16:18	LB133524
	Cobalt	2580	2500	103	90 - 110	P	11/19/2024	16:18	LB133524
	Copper	1310	1250	105	90 - 110	P	11/19/2024	16:18	LB133524
	Iron	5140	5000	103	90 - 110	P	11/19/2024	16:18	LB133524
	Lead	5170	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Magnesium	25600	25000	102	90 - 110	P	11/19/2024	16:18	LB133524
	Manganese	2540	2500	102	90 - 110	P	11/19/2024	16:18	LB133524

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	2590	2500	104	90 - 110	P	11/19/2024	16:18	LB133524
	Potassium	25700	25000	103	90 - 110	P	11/19/2024	16:18	LB133524
	Selenium	5240	5000	105	90 - 110	P	11/19/2024	16:18	LB133524
	Silver	1290	1250	103	90 - 110	P	11/19/2024	16:18	LB133524
	Sodium	25300	25000	101	90 - 110	P	11/19/2024	16:18	LB133524
	Thallium	5210	5000	104	90 - 110	P	11/19/2024	16:18	LB133524
	Vanadium	2590	2500	104	90 - 110	P	11/19/2024	16:18	LB133524
	Zinc	2640	2500	106	90 - 110	P	11/19/2024	16:18	LB133524
CCV06	Aluminum	10500	10000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Antimony	5280	5000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Arsenic	5270	5000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Barium	10400	10000	104	90 - 110	P	11/19/2024	17:19	LB133524
	Beryllium	261	250	104	90 - 110	P	11/19/2024	17:19	LB133524
	Cadmium	2610	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Calcium	25800	25000	103	90 - 110	P	11/19/2024	17:19	LB133524
	Chromium	1060	1000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Cobalt	2600	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Copper	1330	1250	106	90 - 110	P	11/19/2024	17:19	LB133524
	Iron	5190	5000	104	90 - 110	P	11/19/2024	17:19	LB133524
	Lead	5240	5000	105	90 - 110	P	11/19/2024	17:19	LB133524
	Magnesium	25800	25000	103	90 - 110	P	11/19/2024	17:19	LB133524
	Manganese	2540	2500	102	90 - 110	P	11/19/2024	17:19	LB133524
	Nickel	2610	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Potassium	25900	25000	104	90 - 110	P	11/19/2024	17:19	LB133524
	Selenium	5310	5000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Silver	1310	1250	105	90 - 110	P	11/19/2024	17:19	LB133524
	Sodium	25900	25000	103	90 - 110	P	11/19/2024	17:19	LB133524
	Thallium	5300	5000	106	90 - 110	P	11/19/2024	17:19	LB133524
	Vanadium	2600	2500	104	90 - 110	P	11/19/2024	17:19	LB133524
	Zinc	2680	2500	107	90 - 110	P	11/19/2024	17:19	LB133524
CCV07	Aluminum	10300	10000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Antimony	5080	5000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Arsenic	5070	5000	101	90 - 110	P	11/19/2024	18:01	LB133524
	Barium	10600	10000	106	90 - 110	P	11/19/2024	18:01	LB133524

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	256	250	102	90 - 110	P	11/19/2024	18:01	LB133524
	Cadmium	2490	2500	99	90 - 110	P	11/19/2024	18:01	LB133524
	Calcium	25100	25000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Chromium	1020	1000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Cobalt	2490	2500	100	90 - 110	P	11/19/2024	18:01	LB133524
	Copper	1290	1250	104	90 - 110	P	11/19/2024	18:01	LB133524
	Iron	4990	5000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Lead	5020	5000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Magnesium	25100	25000	100	90 - 110	P	11/19/2024	18:01	LB133524
	Manganese	2600	2500	104	90 - 110	P	11/19/2024	18:01	LB133524
	Nickel	2500	2500	100	90 - 110	P	11/19/2024	18:01	LB133524
	Potassium	25200	25000	101	90 - 110	P	11/19/2024	18:01	LB133524
	Selenium	5100	5000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Silver	1270	1250	101	90 - 110	P	11/19/2024	18:01	LB133524
	Sodium	25600	25000	102	90 - 110	P	11/19/2024	18:01	LB133524
	Thallium	4940	5000	99	90 - 110	P	11/19/2024	18:01	LB133524
	Vanadium	2540	2500	102	90 - 110	P	11/19/2024	18:01	LB133524
	Zinc	2480	2500	99	90 - 110	P	11/19/2024	18:01	LB133524

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	107	40 - 160	CV	11/05/2024	12:07	LB133297
CRI01	Aluminum	101	100	101	40 - 160	P	11/06/2024	18:04	LB133323
	Antimony	49.9	50.0	100	40 - 160	P	11/06/2024	18:04	LB133323
	Arsenic	20.3	20.0	102	40 - 160	P	11/06/2024	18:04	LB133323
	Barium	106	100	106	40 - 160	P	11/06/2024	18:04	LB133323
	Beryllium	6.12	6.0	102	40 - 160	P	11/06/2024	18:04	LB133323
	Cadmium	6.64	6.0	111	40 - 160	P	11/06/2024	18:04	LB133323
	Calcium	2070	2000	104	40 - 160	P	11/06/2024	18:04	LB133323
	Chromium	9.93	10.0	99	40 - 160	P	11/06/2024	18:04	LB133323
	Cobalt	29.6	30.0	99	40 - 160	P	11/06/2024	18:04	LB133323
	Copper	21.9	20.0	109	40 - 160	P	11/06/2024	18:04	LB133323
	Iron	76.9	100	77	40 - 160	P	11/06/2024	18:04	LB133323
	Lead	11.2	12.0	94	40 - 160	P	11/06/2024	18:04	LB133323
	Magnesium	2070	2000	104	40 - 160	P	11/06/2024	18:04	LB133323
	Manganese	21.2	20.0	106	40 - 160	P	11/06/2024	18:04	LB133323
	Nickel	39.4	40.0	99	40 - 160	P	11/06/2024	18:04	LB133323
	Potassium	1940	2000	97	40 - 160	P	11/06/2024	18:04	LB133323
	Selenium	19.9	20.0	99	40 - 160	P	11/06/2024	18:04	LB133323
	Silver	10.5	10.0	105	40 - 160	P	11/06/2024	18:04	LB133323
	Sodium	1590	2000	80	40 - 160	P	11/06/2024	18:04	LB133323
	Thallium	41.9	40.0	105	40 - 160	P	11/06/2024	18:04	LB133323
	Vanadium	41.8	40.0	104	40 - 160	P	11/06/2024	18:04	LB133323
	Zinc	40.8	40.0	102	40 - 160	P	11/06/2024	18:04	LB133323
CRI01	Aluminum	107	100	107	40 - 160	P	11/19/2024	11:43	LB133524
	Antimony	49.1	50.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Arsenic	19.4	20.0	97	40 - 160	P	11/19/2024	11:43	LB133524
	Barium	105	100	105	40 - 160	P	11/19/2024	11:43	LB133524
	Beryllium	5.90	6.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Cadmium	5.78	6.0	96	40 - 160	P	11/19/2024	11:43	LB133524
	Calcium	2070	2000	104	40 - 160	P	11/19/2024	11:43	LB133524
	Chromium	10.2	10.0	102	40 - 160	P	11/19/2024	11:43	LB133524
	Cobalt	29.6	30.0	99	40 - 160	P	11/19/2024	11:43	LB133524
	Copper	22.2	20.0	111	40 - 160	P	11/19/2024	11:43	LB133524
	Iron	96.0	100	96	40 - 160	P	11/19/2024	11:43	LB133524
	Lead	12.1	12.0	101	40 - 160	P	11/19/2024	11:43	LB133524

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Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	2050	2000	102	40 - 160	P	11/19/2024	11:43	LB133524
	Manganese	21.1	20.0	106	40 - 160	P	11/19/2024	11:43	LB133524
	Nickel	39.1	40.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Potassium	1920	2000	96	40 - 160	P	11/19/2024	11:43	LB133524
	Selenium	18.1	20.0	90	40 - 160	P	11/19/2024	11:43	LB133524
	Silver	10.1	10.0	101	40 - 160	P	11/19/2024	11:43	LB133524
	Sodium	1810	2000	90	40 - 160	P	11/19/2024	11:43	LB133524
	Thallium	39.1	40.0	98	40 - 160	P	11/19/2024	11:43	LB133524
	Vanadium	39.6	40.0	99	40 - 160	P	11/19/2024	11:43	LB133524
	Zinc	42.4	40.0	106	40 - 160	P	11/19/2024	11:43	LB133524

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB69	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	11/05/2024	12:00	LB133297

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB26	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	11/05/2024	12:05	LB133297
CCB27	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	11/05/2024	12:32	LB133297
CCB28	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	11/05/2024	12:59	LB133297
CCB29	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	11/05/2024	13:34	LB133297
CCB30	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	11/05/2024	14:11	LB133297
CCB31	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	11/05/2024	14:31	LB133297
CCB32	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	11/05/2024	14:45	LB133297

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/06/2024	17:43	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/06/2024	17:43	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	17:43	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/06/2024	17:43	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	17:43	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	17:43	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/06/2024	17:43	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	17:43	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/06/2024	17:43	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	17:43	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/06/2024	17:43	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/06/2024	17:43	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/06/2024	17:43	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/06/2024	17:43	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	17:43	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/06/2024	17:43	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	17:43	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	17:43	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/06/2024	17:43	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	17:43	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	17:43	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	17:43	LB133323

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/06/2024	18:27	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/06/2024	18:27	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	18:27	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/06/2024	18:27	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	18:27	LB133323
	Cadmium	0.21	+/-6.00	J	1.50	6.00	P	11/06/2024	18:27	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/06/2024	18:27	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	18:27	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/06/2024	18:27	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	18:27	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/06/2024	18:27	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/06/2024	18:27	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/06/2024	18:27	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/06/2024	18:27	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	18:27	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/06/2024	18:27	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	18:27	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	18:27	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/06/2024	18:27	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	18:27	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	18:27	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	18:27	LB133323
CCB02	Aluminum	100	+/-100	U	80.0	100	P	11/06/2024	18:44	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/06/2024	18:44	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	18:44	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/06/2024	18:44	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	18:44	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	18:44	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/06/2024	18:44	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	18:44	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/06/2024	18:44	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	18:44	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/06/2024	18:44	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/06/2024	18:44	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/06/2024	18:44	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/06/2024	18:44	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	18:44	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/06/2024	18:44	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	18:44	LB133323

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/06/2024	18:44	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/06/2024	18:44	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	18:44	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	18:44	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	18:44	LB133323
CCB03	Aluminum	100	+/-100	U	80.0	100	P	11/06/2024	19:36	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/06/2024	19:36	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	19:36	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/06/2024	19:36	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	19:36	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	19:36	LB133323
	Calcium	165	+/-2000	J	500	2000	P	11/06/2024	19:36	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	19:36	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/06/2024	19:36	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	19:36	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/06/2024	19:36	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/06/2024	19:36	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/06/2024	19:36	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/06/2024	19:36	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	19:36	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/06/2024	19:36	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	19:36	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	19:36	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/06/2024	19:36	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	19:36	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	19:36	LB133323
	Zinc	23.7	+/-40.0	J	10.0	40.0	P	11/06/2024	19:36	LB133323
CCB04	Aluminum	100	+/-100	U	80.0	100	P	11/06/2024	20:26	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/06/2024	20:26	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	20:26	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/06/2024	20:26	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	20:26	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	20:26	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/06/2024	20:26	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	20:26	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/06/2024	20:26	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	20:26	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/06/2024	20:26	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/06/2024	20:26	LB133323

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/06/2024	20:26	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/06/2024	20:26	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	20:26	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/06/2024	20:26	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	20:26	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	20:26	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/06/2024	20:26	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	20:26	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	20:26	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	20:26	LB133323
CCB05	Aluminum	100	+/-100	U	80.0	100	P	11/06/2024	21:17	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/06/2024	21:17	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	21:17	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/06/2024	21:17	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	21:17	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	21:17	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/06/2024	21:17	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	21:17	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/06/2024	21:17	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	21:17	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/06/2024	21:17	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/06/2024	21:17	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/06/2024	21:17	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/06/2024	21:17	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	21:17	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/06/2024	21:17	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	21:17	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	21:17	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/06/2024	21:17	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	21:17	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	21:17	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	21:17	LB133323
CCB06	Aluminum	100	+/-100	U	80.0	100	P	11/06/2024	22:15	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/06/2024	22:15	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	22:15	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/06/2024	22:15	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	22:15	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	22:15	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/06/2024	22:15	LB133323

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/06/2024	22:15	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/06/2024	22:15	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	22:15	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/06/2024	22:15	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/06/2024	22:15	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/06/2024	22:15	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/06/2024	22:15	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	22:15	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/06/2024	22:15	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	22:15	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	22:15	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/06/2024	22:15	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	22:15	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	22:15	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	22:15	LB133323
CCB07	Aluminum	100	+/-100	U	80.0	100	P	11/06/2024	23:07	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/06/2024	23:07	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	23:07	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/06/2024	23:07	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	23:07	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/06/2024	23:07	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/06/2024	23:07	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	23:07	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/06/2024	23:07	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	23:07	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/06/2024	23:07	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/06/2024	23:07	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/06/2024	23:07	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/06/2024	23:07	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	23:07	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/06/2024	23:07	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/06/2024	23:07	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/06/2024	23:07	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/06/2024	23:07	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	23:07	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/06/2024	23:07	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/06/2024	23:07	LB133323
CCB08	Aluminum	100	+/-100	U	80.0	100	P	11/07/2024	00:03	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/07/2024	00:03	LB133323

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/07/2024	00:03	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/07/2024	00:03	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/07/2024	00:03	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/07/2024	00:03	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/07/2024	00:03	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/07/2024	00:03	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/07/2024	00:03	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/07/2024	00:03	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/07/2024	00:03	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/07/2024	00:03	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/07/2024	00:03	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/07/2024	00:03	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/07/2024	00:03	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/07/2024	00:03	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/07/2024	00:03	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/07/2024	00:03	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/07/2024	00:03	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/07/2024	00:03	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/07/2024	00:03	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/07/2024	00:03	LB133323
CCB09	Aluminum	100	+/-100	U	80.0	100	P	11/07/2024	00:57	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/07/2024	00:57	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/07/2024	00:57	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/07/2024	00:57	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/07/2024	00:57	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/07/2024	00:57	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/07/2024	00:57	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/07/2024	00:57	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/07/2024	00:57	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/07/2024	00:57	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/07/2024	00:57	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/07/2024	00:57	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/07/2024	00:57	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/07/2024	00:57	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/07/2024	00:57	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/07/2024	00:57	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/07/2024	00:57	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/07/2024	00:57	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/07/2024	00:57	LB133323

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/07/2024	00:57	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/07/2024	00:57	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/07/2024	00:57	LB133323
CCB10	Aluminum	100	+/-100	U	80.0	100	P	11/07/2024	01:53	LB133323
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/07/2024	01:53	LB133323
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/07/2024	01:53	LB133323
	Barium	100	+/-100	U	25.0	100	P	11/07/2024	01:53	LB133323
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/07/2024	01:53	LB133323
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/07/2024	01:53	LB133323
	Calcium	2000	+/-2000	U	500	2000	P	11/07/2024	01:53	LB133323
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/07/2024	01:53	LB133323
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/07/2024	01:53	LB133323
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/07/2024	01:53	LB133323
	Iron	100	+/-100	U	80.0	100	P	11/07/2024	01:53	LB133323
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/07/2024	01:53	LB133323
	Magnesium	2000	+/-2000	U	500	2000	P	11/07/2024	01:53	LB133323
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/07/2024	01:53	LB133323
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/07/2024	01:53	LB133323
	Potassium	2000	+/-2000	U	1600	2000	P	11/07/2024	01:53	LB133323
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/07/2024	01:53	LB133323
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/07/2024	01:53	LB133323
	Sodium	2000	+/-2000	U	1000	2000	P	11/07/2024	01:53	LB133323
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/07/2024	01:53	LB133323
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/07/2024	01:53	LB133323
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/07/2024	01:53	LB133323

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/19/2024	11:38	LB133524
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/19/2024	11:38	LB133524
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	11:38	LB133524
	Barium	100	+/-100	U	25.0	100	P	11/19/2024	11:38	LB133524
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	11:38	LB133524
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	11:38	LB133524
	Calcium	2000	+/-2000	U	500	2000	P	11/19/2024	11:38	LB133524
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	11:38	LB133524
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/19/2024	11:38	LB133524
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	11:38	LB133524
	Iron	100	+/-100	U	80.0	100	P	11/19/2024	11:38	LB133524
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/19/2024	11:38	LB133524
	Magnesium	2000	+/-2000	U	500	2000	P	11/19/2024	11:38	LB133524
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/19/2024	11:38	LB133524
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	11:38	LB133524
	Potassium	2000	+/-2000	U	1600	2000	P	11/19/2024	11:38	LB133524
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	11:38	LB133524
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	11:38	LB133524
	Sodium	2000	+/-2000	U	1000	2000	P	11/19/2024	11:38	LB133524
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	11:38	LB133524
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	11:38	LB133524
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	11:38	LB133524

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/19/2024	12:48	LB133524
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/19/2024	12:48	LB133524
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	12:48	LB133524
	Barium	100	+/-100	U	25.0	100	P	11/19/2024	12:48	LB133524
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	12:48	LB133524
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	12:48	LB133524
	Calcium	2000	+/-2000	U	500	2000	P	11/19/2024	12:48	LB133524
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	12:48	LB133524
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/19/2024	12:48	LB133524
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	12:48	LB133524
	Iron	100	+/-100	U	80.0	100	P	11/19/2024	12:48	LB133524
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/19/2024	12:48	LB133524
	Magnesium	2000	+/-2000	U	500	2000	P	11/19/2024	12:48	LB133524
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/19/2024	12:48	LB133524
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	12:48	LB133524
	Potassium	2000	+/-2000	U	1600	2000	P	11/19/2024	12:48	LB133524
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	12:48	LB133524
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	12:48	LB133524
	Sodium	2000	+/-2000	U	1000	2000	P	11/19/2024	12:48	LB133524
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	12:48	LB133524
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	12:48	LB133524
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	12:48	LB133524
CCB02	Aluminum	100	+/-100	U	80.0	100	P	11/19/2024	13:38	LB133524
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/19/2024	13:38	LB133524
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	13:38	LB133524
	Barium	100	+/-100	U	25.0	100	P	11/19/2024	13:38	LB133524
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	13:38	LB133524
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	13:38	LB133524
	Calcium	2000	+/-2000	U	500	2000	P	11/19/2024	13:38	LB133524
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	13:38	LB133524
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/19/2024	13:38	LB133524
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	13:38	LB133524
	Iron	100	+/-100	U	80.0	100	P	11/19/2024	13:38	LB133524
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/19/2024	13:38	LB133524
	Magnesium	2000	+/-2000	U	500	2000	P	11/19/2024	13:38	LB133524
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/19/2024	13:38	LB133524
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	13:38	LB133524
	Potassium	2000	+/-2000	U	1600	2000	P	11/19/2024	13:38	LB133524
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	13:38	LB133524

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/19/2024	13:38	LB133524
	Sodium	2000	+/-2000	U	1000	2000	P	11/19/2024	13:38	LB133524
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	13:38	LB133524
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	13:38	LB133524
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	13:38	LB133524
CCB03	Aluminum	100	+/-100	U	80.0	100	P	11/19/2024	14:28	LB133524
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/19/2024	14:28	LB133524
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	14:28	LB133524
	Barium	100	+/-100	U	25.0	100	P	11/19/2024	14:28	LB133524
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	14:28	LB133524
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	14:28	LB133524
	Calcium	2000	+/-2000	U	500	2000	P	11/19/2024	14:28	LB133524
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	14:28	LB133524
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/19/2024	14:28	LB133524
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	14:28	LB133524
	Iron	100	+/-100	U	80.0	100	P	11/19/2024	14:28	LB133524
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/19/2024	14:28	LB133524
	Magnesium	2000	+/-2000	U	500	2000	P	11/19/2024	14:28	LB133524
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/19/2024	14:28	LB133524
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	14:28	LB133524
	Potassium	2000	+/-2000	U	1600	2000	P	11/19/2024	14:28	LB133524
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	14:28	LB133524
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	14:28	LB133524
	Sodium	2000	+/-2000	U	1000	2000	P	11/19/2024	14:28	LB133524
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	14:28	LB133524
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	14:28	LB133524
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	14:28	LB133524
CCB04	Aluminum	100	+/-100	U	80.0	100	P	11/19/2024	15:36	LB133524
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/19/2024	15:36	LB133524
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	15:36	LB133524
	Barium	100	+/-100	U	25.0	100	P	11/19/2024	15:36	LB133524
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	15:36	LB133524
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	15:36	LB133524
	Calcium	2000	+/-2000	U	500	2000	P	11/19/2024	15:36	LB133524
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	15:36	LB133524
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/19/2024	15:36	LB133524
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	15:36	LB133524
	Iron	100	+/-100	U	80.0	100	P	11/19/2024	15:36	LB133524
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/19/2024	15:36	LB133524

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/19/2024	15:36	LB133524
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/19/2024	15:36	LB133524
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	15:36	LB133524
	Potassium	2000	+/-2000	U	1600	2000	P	11/19/2024	15:36	LB133524
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	15:36	LB133524
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	15:36	LB133524
	Sodium	2000	+/-2000	U	1000	2000	P	11/19/2024	15:36	LB133524
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	15:36	LB133524
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	15:36	LB133524
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	15:36	LB133524
CCB05	Aluminum	100	+/-100	U	80.0	100	P	11/19/2024	16:22	LB133524
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/19/2024	16:22	LB133524
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	16:22	LB133524
	Barium	100	+/-100	U	25.0	100	P	11/19/2024	16:22	LB133524
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	16:22	LB133524
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	16:22	LB133524
	Calcium	2000	+/-2000	U	500	2000	P	11/19/2024	16:22	LB133524
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	16:22	LB133524
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/19/2024	16:22	LB133524
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	16:22	LB133524
	Iron	100	+/-100	U	80.0	100	P	11/19/2024	16:22	LB133524
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/19/2024	16:22	LB133524
	Magnesium	2000	+/-2000	U	500	2000	P	11/19/2024	16:22	LB133524
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	11/19/2024	16:22	LB133524
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	16:22	LB133524
	Potassium	2000	+/-2000	U	1600	2000	P	11/19/2024	16:22	LB133524
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	16:22	LB133524
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	16:22	LB133524
	Sodium	2000	+/-2000	U	1000	2000	P	11/19/2024	16:22	LB133524
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	16:22	LB133524
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	16:22	LB133524
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	16:22	LB133524
CCB06	Aluminum	100	+/-100	U	80.0	100	P	11/19/2024	17:24	LB133524
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/19/2024	17:24	LB133524
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	17:24	LB133524
	Barium	22.0	+/-100	J	25.0	100	P	11/19/2024	17:24	LB133524
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	17:24	LB133524
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	17:24	LB133524
	Calcium	2000	+/-2000	U	500	2000	P	11/19/2024	17:24	LB133524

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	11/19/2024	17:24	LB133524
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/19/2024	17:24	LB133524
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	17:24	LB133524
	Iron	100	+/-100	U	80.0	100	P	11/19/2024	17:24	LB133524
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/19/2024	17:24	LB133524
	Magnesium	2000	+/-2000	U	500	2000	P	11/19/2024	17:24	LB133524
	Manganese	6.51	+/-20.0	J	5.00	20.0	P	11/19/2024	17:24	LB133524
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	17:24	LB133524
	Potassium	2000	+/-2000	U	1600	2000	P	11/19/2024	17:24	LB133524
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	17:24	LB133524
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	17:24	LB133524
	Sodium	2000	+/-2000	U	1000	2000	P	11/19/2024	17:24	LB133524
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	17:24	LB133524
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	17:24	LB133524
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	17:24	LB133524
CCB07	Aluminum	100	+/-100	U	80.0	100	P	11/19/2024	18:05	LB133524
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	11/19/2024	18:05	LB133524
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	18:05	LB133524
	Barium	25.8	+/-100	J	25.0	100	P	11/19/2024	18:05	LB133524
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	11/19/2024	18:05	LB133524
	Cadmium	0.62	+/-6.00	J	1.50	6.00	P	11/19/2024	18:05	LB133524
	Calcium	81.8	+/-2000	J	500	2000	P	11/19/2024	18:05	LB133524
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	18:05	LB133524
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	11/19/2024	18:05	LB133524
	Copper	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	18:05	LB133524
	Iron	100	+/-100	U	80.0	100	P	11/19/2024	18:05	LB133524
	Lead	12.0	+/-12.0	U	9.60	12.0	P	11/19/2024	18:05	LB133524
	Magnesium	2000	+/-2000	U	500	2000	P	11/19/2024	18:05	LB133524
	Manganese	7.68	+/-20.0	J	5.00	20.0	P	11/19/2024	18:05	LB133524
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	18:05	LB133524
	Potassium	2000	+/-2000	U	1600	2000	P	11/19/2024	18:05	LB133524
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	11/19/2024	18:05	LB133524
	Silver	10.0	+/-10.0	U	5.00	10.0	P	11/19/2024	18:05	LB133524
	Sodium	2000	+/-2000	U	1000	2000	P	11/19/2024	18:05	LB133524
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	11/19/2024	18:05	LB133524
	Vanadium	6.34	+/-40.0	J	20.0	40.0	P	11/19/2024	18:05	LB133524
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	11/19/2024	18:05	LB133524

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number

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- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164687BL		**WATER**		**Batch Number:**		**PB164687**		**Prep Date:**	**11/04/2024**	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	11/05/2024	13:15	LB133297

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- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164645BL		**WATER**		**Batch Number:**		**PB164645**		**Prep Date:**	**11/04/2024**	
	Aluminum	50.0	<50.0	U	40.0	50.0	P	11/19/2024	13:09	LB133524
	Antimony	25.0	<25.0	U	6.25	25.0	P	11/19/2024	13:09	LB133524
	Arsenic	10.0	<10.0	U	8.00	10.0	P	11/19/2024	13:09	LB133524
	Barium	50.0	<50.0	U	12.5	50.0	P	11/19/2024	13:09	LB133524
	Beryllium	3.00	<3.00	U	0.75	3.00	P	11/19/2024	13:09	LB133524
	Cadmium	3.00	<3.00	U	0.75	3.00	P	11/19/2024	13:09	LB133524
	Calcium	1000	<1000	U	250	1000	P	11/19/2024	13:09	LB133524
	Chromium	5.00	<5.00	U	2.50	5.00	P	11/19/2024	13:09	LB133524
	Cobalt	15.0	<15.0	U	3.75	15.0	P	11/19/2024	13:09	LB133524
	Copper	10.0	<10.0	U	8.00	10.0	P	11/19/2024	13:09	LB133524
	Iron	50.0	<50.0	U	40.0	50.0	P	11/19/2024	13:09	LB133524
	Lead	6.00	<6.00	U	4.80	6.00	P	11/19/2024	13:09	LB133524
	Magnesium	1000	<1000	U	250	1000	P	11/19/2024	13:09	LB133524
	Manganese	10.0	<10.0	U	2.50	10.0	P	11/19/2024	13:09	LB133524
	Nickel	20.0	<20.0	U	5.00	20.0	P	11/19/2024	13:09	LB133524
	Potassium	1000	<1000	U	800	1000	P	11/19/2024	13:09	LB133524
	Selenium	10.0	<10.0	U	8.00	10.0	P	11/19/2024	13:09	LB133524
	Silver	5.00	<5.00	U	2.50	5.00	P	11/19/2024	13:09	LB133524
	Sodium	1000	<1000	U	500	1000	P	11/19/2024	13:09	LB133524
	Thallium	20.0	<20.0	U	10.0	20.0	P	11/19/2024	13:09	LB133524
	Vanadium	20.0	<20.0	U	10.0	20.0	P	11/19/2024	13:09	LB133524
	Zinc	20.0	<20.0	U	5.00	20.0	P	11/19/2024	13:09	LB133524

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- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	257000	255000	101	216000	294000	11/06/2024	18:08	LB133323
	Antimony	-0.051			-50	50	11/06/2024	18:08	LB133323
	Arsenic	2.46			-20	20	11/06/2024	18:08	LB133323
	Barium	5.21	6.0	87	-94	106	11/06/2024	18:08	LB133323
	Beryllium	1.28			-6	6	11/06/2024	18:08	LB133323
	Cadmium	6.38	1.0	638	-5	7	11/06/2024	18:08	LB133323
	Calcium	248000	245000	101	208000	282000	11/06/2024	18:08	LB133323
	Chromium	56.4	52.0	108	42	62	11/06/2024	18:08	LB133323
	Cobalt	2.02			-30	30	11/06/2024	18:08	LB133323
	Copper	0.49	2.0	24	-18	22	11/06/2024	18:08	LB133323
	Iron	98800	101000	98	85600	116500	11/06/2024	18:08	LB133323
	Lead	9.93			-12	12	11/06/2024	18:08	LB133323
	Magnesium	268000	255000	105	216000	294000	11/06/2024	18:08	LB133323
	Manganese	4.23	7.0	60	-13	27	11/06/2024	18:08	LB133323
	Nickel	3.00	2.0	150	-38	42	11/06/2024	18:08	LB133323
	Potassium	15.0			0	0	11/06/2024	18:08	LB133323
	Selenium	-15.6			-20	20	11/06/2024	18:08	LB133323
	Silver	1.23			-10	10	11/06/2024	18:08	LB133323
	Sodium	-15.2			0	0	11/06/2024	18:08	LB133323
	Thallium	2.62			-40	40	11/06/2024	18:08	LB133323
	Vanadium	7.34			-40	40	11/06/2024	18:08	LB133323
	Zinc	8.08			-40	40	11/06/2024	18:08	LB133323
ICSAB01	Aluminum	261000	247000	106	209000	285000	11/06/2024	18:13	LB133323
	Antimony	616	618	100	525	711	11/06/2024	18:13	LB133323
	Arsenic	114	104	110	88.4	120	11/06/2024	18:13	LB133323
	Barium	529	537	98	437	637	11/06/2024	18:13	LB133323
	Beryllium	527	495	106	420	570	11/06/2024	18:13	LB133323
	Cadmium	1020	972	105	826	1120	11/06/2024	18:13	LB133323
	Calcium	250000	235000	106	199000	271000	11/06/2024	18:13	LB133323
	Chromium	562	542	104	460	624	11/06/2024	18:13	LB133323
	Cobalt	514	476	108	404	548	11/06/2024	18:13	LB133323
	Copper	488	511	96	434	588	11/06/2024	18:13	LB133323
	Iron	100000	99300	101	84400	114500	11/06/2024	18:13	LB133323
	Lead	57.7	49.0	118	37	61	11/06/2024	18:13	LB133323
	Magnesium	270000	248000	109	210000	286000	11/06/2024	18:13	LB133323
	Manganese	516	507	102	430	584	11/06/2024	18:13	LB133323
	Nickel	1010	954	106	810	1100	11/06/2024	18:13	LB133323
	Potassium	3.43			0	0	11/06/2024	18:13	LB133323
	Selenium	36.0	46.0	78	26	66	11/06/2024	18:13	LB133323
	Silver	203	201	101	170	232	11/06/2024	18:13	LB133323
	Sodium	-114			0	0	11/06/2024	18:13	LB133323
	Thallium	105	108	97	68	148	11/06/2024	18:13	LB133323

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	507	491	103	417	565	11/06/2024	18:13	LB133323
	Zinc	1070	952	112	809	1095	11/06/2024	18:13	LB133323
ICSA01	Aluminum	263000	255000	103	216000	294000	11/19/2024	11:47	LB133524
	Antimony	-1.78			-50	50	11/19/2024	11:47	LB133524
	Arsenic	3.30			-20	20	11/19/2024	11:47	LB133524
	Barium	5.39	6.0	90	-94	106	11/19/2024	11:47	LB133524
	Beryllium	1.27			-6	6	11/19/2024	11:47	LB133524
	Cadmium	3.48	1.0	348	-5	7	11/19/2024	11:47	LB133524
	Calcium	251000	245000	102	208000	282000	11/19/2024	11:47	LB133524
	Chromium	57.2	52.0	110	42	62	11/19/2024	11:47	LB133524
	Cobalt	2.14			-30	30	11/19/2024	11:47	LB133524
	Copper	7.48	2.0	374	-18	22	11/19/2024	11:47	LB133524
	Iron	98200	101000	97	85600	116500	11/19/2024	11:47	LB133524
	Lead	8.06			-12	12	11/19/2024	11:47	LB133524
	Magnesium	274000	255000	108	216000	294000	11/19/2024	11:47	LB133524
	Manganese	4.02	7.0	57	-13	27	11/19/2024	11:47	LB133524
	Nickel	2.06	2.0	103	-38	42	11/19/2024	11:47	LB133524
	Potassium	43.8			0	0	11/19/2024	11:47	LB133524
	Selenium	-17.4			-20	20	11/19/2024	11:47	LB133524
	Silver	-0.45			-10	10	11/19/2024	11:47	LB133524
	Sodium	49.8			0	0	11/19/2024	11:47	LB133524
	Thallium	-3.78			-40	40	11/19/2024	11:47	LB133524
	Vanadium	7.04			-40	40	11/19/2024	11:47	LB133524
	Zinc	5.70			-40	40	11/19/2024	11:47	LB133524
ICSAB01	Aluminum	265000	247000	107	209000	285000	11/19/2024	11:51	LB133524
	Antimony	626	618	101	525	711	11/19/2024	11:51	LB133524
	Arsenic	116	104	112	88.4	120	11/19/2024	11:51	LB133524
	Barium	525	537	98	437	637	11/19/2024	11:51	LB133524
	Beryllium	524	495	106	420	570	11/19/2024	11:51	LB133524
	Cadmium	832	972	86	826	1120	11/19/2024	11:51	LB133524
	Calcium	250000	235000	106	199000	271000	11/19/2024	11:51	LB133524
	Chromium	571	542	105	460	624	11/19/2024	11:51	LB133524
	Cobalt	518	476	109	404	548	11/19/2024	11:51	LB133524
	Copper	493	511	96	434	588	11/19/2024	11:51	LB133524
	Iron	99700	99300	100	84400	114500	11/19/2024	11:51	LB133524
	Lead	57.8	49.0	118	37	61	11/19/2024	11:51	LB133524
	Magnesium	273000	248000	110	210000	286000	11/19/2024	11:51	LB133524
	Manganese	509	507	100	430	584	11/19/2024	11:51	LB133524
	Nickel	1020	954	107	810	1100	11/19/2024	11:51	LB133524
	Potassium	62.1			0	0	11/19/2024	11:51	LB133524
	Selenium	31.5	46.0	68	26	66	11/19/2024	11:51	LB133524
	Silver	201	201	100	170	232	11/19/2024	11:51	LB133524

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

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	62.8			0	0	11/19/2024	11:51	LB133524
	Thallium	91.5	108	85	68	148	11/19/2024	11:51	LB133524
	Vanadium	509	491	104	417	565	11/19/2024	11:51	LB133524
	Zinc	1090	952	114	809	1095	11/19/2024	11:51	LB133524

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4652

contract: TETR06 **lab code:** CHEM **case no.:** P4652 **sas no.:** P4652

matrix: Water **sample id:** P4661-03 **client id:** 102324-AMS

Percent Solids for Sample: NA **Spiked ID:** P4661-03MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.36		0.17	J	4.0	80	N	CV

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4652

contract: TETR06 **lab code:** CHEM **case no.:** P4652 **sas no.:** P4652

matrix: Water **sample id:** P4661-03 **client id:** 102324-AMSD

Percent Solids for Sample: NA **Spiked ID:** P4661-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.26		0.17	J	4.0	77	N	CV

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4652

contract: TETR06 **lab code:** CHEM **case no.:** P4652 **sas no.:** P4652

matrix: Water **sample id:** P4673-07 **client id:** OUTFALL-007MS

Percent Solids for Sample: NA **Spiked ID:** P4673-07MS **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	1650		519		1000	113		P
Antimony	ug/L	88 - 113	409		25.0	U	400	102		P
Arsenic	ug/L	87 - 113	413		10.0	U	400	103		P
Barium	ug/L	88 - 113	378		248		100	130	N	P
Beryllium	ug/L	89 - 112	106		3.00	U	100	106		P
Cadmium	ug/L	88 - 113	95.9		3.00	U	100	96		P
Calcium	ug/L	87 - 113	19900		18400		500	316		P
Chromium	ug/L	90 - 113	236		21.1		200	108		P
Cobalt	ug/L	89 - 114	100		15.0	U	100	100		P
Copper	ug/L	86 - 114	168		14.2		150	103		P
Iron	ug/L	87 - 115	2600		892		1500	114		P
Lead	ug/L	86 - 113	475		6.00	U	500	95		P
Magnesium	ug/L	85 - 113	1730		676	J	1000	106		P
Manganese	ug/L	90 - 114	137		26.8		100	110		P
Nickel	ug/L	88 - 113	250		2.30	J	250	99		P
Potassium	ug/L	86 - 114	8060		2620		5000	109		P
Selenium	ug/L	83 - 114	954		10.0	U	1000	95		P
Silver	ug/L	84 - 115	38.9		5.00	U	37.5	104		P
Sodium	ug/L	87 - 115	5890		3780		1500	141	N	P
Thallium	ug/L	85 - 114	947		20.0	U	1000	95		P
Vanadium	ug/L	90 - 111	167		20.0	U	150	111	N	P
Zinc	ug/L	87 - 115	411		286		100	126	N	P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** P4652

contract: TETR06 **lab code:** CHEM **case no.:** P4652 **sas no.:** P4652

matrix: Water **sample id:** P4673-07 **client id:** OUTFALL-007MSD

Percent Solids for Sample: NA **Spiked ID:** P4673-07MSD **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	1640		519		1000	112		P
Antimony	ug/L	88 - 113	411		25.0	U	400	103		P
Arsenic	ug/L	87 - 113	414		10.0	U	400	104		P
Barium	ug/L	88 - 113	376		248		100	128	N	P
Beryllium	ug/L	89 - 112	105		3.00	U	100	105		P
Cadmium	ug/L	88 - 113	96.3		3.00	U	100	96		P
Calcium	ug/L	87 - 113	19800		18400		500	294		P
Chromium	ug/L	90 - 113	234		21.1		200	107		P
Cobalt	ug/L	89 - 114	101		15.0	U	100	101		P
Copper	ug/L	86 - 114	169		14.2		150	103		P
Iron	ug/L	87 - 115	2590		892		1500	113		P
Lead	ug/L	86 - 113	476		6.00	U	500	95		P
Magnesium	ug/L	85 - 113	1730		676	J	1000	105		P
Manganese	ug/L	90 - 114	136		26.8		100	109		P
Nickel	ug/L	88 - 113	251		2.30	J	250	100		P
Potassium	ug/L	86 - 114	8090		2620		5000	109		P
Selenium	ug/L	83 - 114	964		10.0	U	1000	96		P
Silver	ug/L	84 - 115	38.7		5.00	U	37.5	103		P
Sodium	ug/L	87 - 115	5950		3780		1500	145	N	P
Thallium	ug/L	85 - 114	978		20.0	U	1000	98		P
Vanadium	ug/L	90 - 111	166		20.0	U	150	111		P
Zinc	ug/L	87 - 115	412		286		100	126	N	P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Matrix: Water **Level:** LOW **Client ID:** 102324-AA

Sample ID: P4661-03 **Spiked ID:** P4661-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.42		0.17	J	4.00	81		CV

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Matrix: Water **Level:** LOW **Client ID:** OUTFALL-007A

Sample ID: P4673-07 **Spiked ID:** P4673-07A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	88 - 113	380		248		100	132		P
Sodium	ug/L	87 - 115	5710		3780		1500	128		P
Vanadium	ug/L	90 - 111	166		20.0	U	150	111		P
Zinc	ug/L	87 - 115	404		286		100	118		P

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Metals

- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Matrix: Water **Sample ID:** P4661-03 **Client ID:** 102324-ADUP

Percent Solids for Sample: NA **Duplicate ID** P4661-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.17	J	0.13	J	25		CV

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

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Metals

- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Matrix: Water **Sample ID:** P4661-03MS **Client ID:** 102324-AMSD

Percent Solids for Sample: NA **Duplicate ID** P4661-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.36		3.26		3		CV

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

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Matrix: Water **Sample ID:** P4673-07 **Client ID:** OUTFALL-007DUP

Percent Solids for Sample: NA **Duplicate ID** P4673-07DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	519		521		0		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	248		247		0		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	18400		18200		1		P
Chromium	ug/L	20	21.1		21.0		0		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	14.2		14.4		1		P
Iron	ug/L	20	892		908		2		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	676	J	671	J	1		P
Manganese	ug/L	20	26.8		26.5		1		P
Nickel	ug/L	20	2.30	J	2.41	J	5		P
Potassium	ug/L	20	2620		2670		2		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	3780		3850		2		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	286		289		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

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Matrix: Water **Sample ID:** P4673-07MS **Client ID:** OUTFALL-007MSD

Percent Solids for Sample: NA **Duplicate ID** P4673-07MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1650		1640		1		P
Antimony	ug/L	20	409		411		0		P
Arsenic	ug/L	20	413		414		0		P
Barium	ug/L	20	378		376		1		P
Beryllium	ug/L	20	106		105		1		P
Cadmium	ug/L	20	95.9		96.3		0		P
Calcium	ug/L	20	19900		19800		1		P
Chromium	ug/L	20	236		234		1		P
Cobalt	ug/L	20	100		101		1		P
Copper	ug/L	20	168		169		1		P
Iron	ug/L	20	2600		2590		0		P
Lead	ug/L	20	475		476		0		P
Magnesium	ug/L	20	1730		1730		0		P
Manganese	ug/L	20	137		136		1		P
Nickel	ug/L	20	250		251		0		P
Potassium	ug/L	20	8060		8090		0		P
Selenium	ug/L	20	954		964		1		P
Silver	ug/L	20	38.9		38.7		1		P
Sodium	ug/L	20	5890		5950		1		P
Thallium	ug/L	20	947		978		3		P
Vanadium	ug/L	20	167		166		1		P
Zinc	ug/L	20	411		412		0		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.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164645BS							
Aluminum	ug/L	1000	1010		101	86 - 115	P
Antimony	ug/L	400	397		99	88 - 113	P
Arsenic	ug/L	400	395		99	87 - 113	P
Barium	ug/L	100	101		101	88 - 113	P
Beryllium	ug/L	100	102		102	89 - 112	P
Cadmium	ug/L	100	98.5		98	88 - 113	P
Calcium	ug/L	500	515	J	103	87 - 113	P
Chromium	ug/L	200	205		102	90 - 113	P
Cobalt	ug/L	100	99.8		100	89 - 114	P
Copper	ug/L	150	157		105	86 - 114	P
Iron	ug/L	1500	1470		98	87 - 115	P
Lead	ug/L	500	492		98	86 - 113	P
Magnesium	ug/L	1000	1000		100	85 - 113	P
Manganese	ug/L	100	103		103	90 - 114	P
Nickel	ug/L	250	250		100	88 - 113	P
Potassium	ug/L	5000	4740		95	86 - 114	P
Selenium	ug/L	1000	992		99	83 - 114	P
Silver	ug/L	37.5	36.9		98	84 - 115	P
Sodium	ug/L	1500	1360		91	87 - 115	P
Thallium	ug/L	1000	1020		102	85 - 114	P
Vanadium	ug/L	150	153		102	90 - 111	P
Zinc	ug/L	100	103		103	87 - 115	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164687BS							
Mercury	ug/L	4.0	3.57		89	82 - 119	CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

102324-AL

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

Lab Code: CHEM **Lb No.:** lb133297 **Lab Sample ID :** P4661-03L **SDG No.:** P4652

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.17	J	1.00	U	100.0		CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

OUTFALL-007L

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

Lab Code: CHEM **Lb No.:** lb133323 **Lab Sample ID :** P4673-07L **SDG No.:** P4652

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	519		504		3		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	248		249	J	1		P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	18400		18900		3		P
Chromium	21.1		20.9	J	1		P
Cobalt	15.0	U	75.0	U			P
Copper	14.2		50.0	U	100.0		P
Iron	892		877		2		P
Lead	6.00	U	30.0	U			P
Magnesium	676	J	686	J	2		P
Manganese	26.8		27.1	J	1		P
Nickel	2.30	J	100	U	100.0		P
Potassium	2620		5000	U	100.0		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	3780		2400	J	37		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	286		285		0		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4652 **SAS No.:** P4652

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

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

Case No.: P4652 **SAS No.:** P4652

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164645**						
P4652-01	RW5-SP100-50-20241030	SAM	WATER	11/04/2024	50.0	25.0	
P4652-03	RW5-SP301-303-50-20241030	SAM	WATER	11/04/2024	50.0	25.0	
P4652-04	RW5-SP100-90-20241030	SAM	WATER	11/04/2024	50.0	25.0	
P4652-06	RW5-SP301-303-90-20241030	SAM	WATER	11/04/2024	50.0	25.0	
P4673-07DUP	OUTFALL-007DUP	DUP	WATER	11/04/2024	50.0	25.0	
P4673-07MS	OUTFALL-007MS	MS	WATER	11/04/2024	50.0	25.0	
P4673-07MSD	OUTFALL-007MSD	MSD	WATER	11/04/2024	50.0	25.0	
PB164645BL	PB164645BL	MB	WATER	11/04/2024	50.0	25.0	
PB164645BS	PB164645BS	LCS	WATER	11/04/2024	50.0	25.0	

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4652

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

Case No.: P4652 **SAS No.:** P4652

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB164687**						
P4652-01	RW5-SP100-50-20241030	SAM	WATER	11/04/2024	30.0	30.0	
P4652-03	RW5-SP301-303-50-20241030	SAM	WATER	11/04/2024	30.0	30.0	
P4652-04	RW5-SP100-90-20241030	SAM	WATER	11/04/2024	30.0	30.0	
P4652-06	RW5-SP301-303-90-20241030	SAM	WATER	11/04/2024	30.0	30.0	
P4661-03DUP	102324-ADUP	DUP	WATER	11/04/2024	30.0	30.0	
P4661-03MS	102324-AMS	MS	WATER	11/04/2024	30.0	30.0	
P4661-03MSD	102324-AMSD	MSD	WATER	11/04/2024	30.0	30.0	
PB164687BL	PB164687BL	MB	WATER	11/04/2024	30.0	30.0	
PB164687BS	PB164687BS	LCS	WATER	11/04/2024	30.0	30.0	

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metals
- 14 -
ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** P4652 **Sas no.:** P4652 **Sdg no.:** P4652

Instrument id number: **Method:** **Run number:** LB133297

Start date: 11/05/2024 **End date:** 11/05/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1133	HG
S0.2	S0.2	1	1136	HG
S2.5	S2.5	1	1138	HG
S5	S5	1	1140	HG
S7.5	S7.5	1	1142	HG
S10	S10	1	1155	HG
ICV69	ICV69	1	1158	HG
ICB69	ICB69	1	1200	HG
CCV26	CCV26	1	1203	HG
CCB26	CCB26	1	1205	HG
CRA	CRA	1	1207	HG
CCV27	CCV27	1	1230	HG
CCB27	CCB27	1	1232	HG
CCV28	CCV28	1	1257	HG
CCB28	CCB28	1	1259	HG
PB164687BL	PB164687BL	1	1315	HG
PB164687BS	PB164687BS	1	1322	HG
P4652-01	RW5-SP100-50-20241030	1	1324	HG
P4652-03	RW5-SP301-303-50-20241030	1	1327	HG
CCV29	CCV29	1	1332	HG
CCB29	CCB29	1	1334	HG
P4652-04	RW5-SP100-90-20241030	1	1336	HG
P4652-06	RW5-SP301-303-90-20241030	1	1338	HG
P4661-03DUP	102324-ADUP	1	1348	HG
P4661-03MS	102324-AMS	1	1350	HG
P4661-03MSD	102324-AMSD	1	1353	HG
CCV30	CCV30	1	1408	HG
CCB30	CCB30	1	1411	HG
CCV31	CCV31	1	1429	HG
CCB31	CCB31	1	1431	HG
P4661-03L	102324-AL	5	1438	HG
P4661-03A	102324-AA	1	1440	HG
CCV32	CCV32	1	1442	HG
CCB32	CCB32	1	1445	HG

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metals
- 14 -
ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** P4652 **Sas no.:** P4652 **Sdg no.:** P4652

Instrument id number: **Method:** **Run number:** LB133323

Start date: 11/06/2024 **End date:** 11/07/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1709	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	1713	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	1717	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	1722	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	1726	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	1730	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	1734	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	1738	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	1743	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	1804	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	1808	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	1813	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	1823	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	1827	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	1839	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	1844	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4652-01	RW5-SP100-50-20241030	1	1849	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4652-03	RW5-SP301-303-50-20241030	1	1902	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4652-04	RW5-SP100-90-20241030	1	1906	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4652-06	RW5-SP301-303-90-20241030	1	1911	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	1932	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	1936	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	2022	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	2026	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4673-07DUP	OUTFALL-007DUP	1	2048	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4673-07L	OUTFALL-007L	5	2052	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4673-07MS	OUTFALL-007MS	1	2057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4673-07MSD	OUTFALL-007MSD	1	2101	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4673-07A	OUTFALL-007A	1	2105	Ba,Na,V,Zn
CCV05	CCV05	1	2113	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	2117	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	2211	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	2215	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2303	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	2307	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	2359	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	0003	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	0053	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	0057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	0149	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	0153	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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

metals
- 14 -
ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** P4652 **Sas no.:** P4652 **Sdg no.:** P4652

Instrument id number: **Method:** **Run number:** LB133524

Start date: 11/19/2024 **End date:** 11/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1055	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	1100	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	1104	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	1108	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	1113	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	1117	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	1125	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	1134	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	1138	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	1143	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	1147	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	1151	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	1243	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	1248	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164645BL	PB164645BL	1	1309	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164645BS	PB164645BS	1	1313	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	1334	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	1338	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	1424	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	1428	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	1531	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	1536	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	1618	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	1622	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	1719	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	1724	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1801	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	1805	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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: P4652

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Ln, Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: RW5B
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie,wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 72hr 1,4D, 5 Day TAL Metals DAYS*
HARD COPY: 72hr 1,4D, 5 Day TAL Metals DAYS*
EDD 72hr 1,4D, 5 Day TAL Metals 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

	1,4-Dioxane SW846 8270 SIM	TAL Metals 6010D/7471A SW846							
	1	2	3	4	5	6	7	8	9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES A	PRESERVATIVES B	3	4	5	6	7	8	9	COMMENTS
								1	2								<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
1.	RW5-SP100-50%-20241030	GW		x	10/30/24	15:00	2	x	x								
2.	RW5-SP201-50%-20241030	GW		x	10/30/24	15:01	1	x									
3.	RW5-SP301/303-50%-20241030	GW		x	10/30/24	15:03	2	x	x								
4.	RW5-SP100-90%-20241030	GW		x	10/30/24	15:30	2	x	x								
5.	RW5-SP201-90%-20241030	GW		x	10/30/24	15:31	1	x									
6.	RW5-SP301/303-90%-20241030	GW		x	10/30/24	15:33	2	x	x								
7.																	
8.																	
9.																	
10.																	

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

	DATE/TIME		
RELINQUISHED BY SAMPLER 1.	10/30/24/1600	RECEIVED BY 1.	
RELINQUISHED BY 2.	DATE/TIME 945 10-31-24	RECEIVED BY 2.	
RELINQUISHED BY 3.	DATE/TIME	RECEIVED FOR LAB BY 3.	

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.1 °C
☐ Ice in Cooler? Yes
MeOH extraction requires an additional 4oz. Jar for percent solid
Comments: 50% 68 gpm & 0.5 gph, 90% 120 gpm & 0.58 gph

Page ____ of ____

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

FR-Comb (

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