

ANALYTICAL RESULTS SUMMARY

METALS

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : P5375

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : P5375

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P5375-01

Client Sample Number

TT-RW10A-IDWGW-20241219

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

Signature : _____

Date: 1/2/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P5375

Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:

1 Water sample was received on 12/20/2024.

B. Parameters:

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (TT-RW10A-IDWGW-20241219MS) analysis met criteria for all samples except for Barium, Beryllium, Cadmium, Chromium, Iron, Magnesium, Manganese and Nickel due to Chemical Interference during Digestion Process.

The Matrix Spike Duplicate (TT-RW10A-IDWGW-20241219MSD) analysis met criteria for all samples except for Barium, Beryllium, Cadmium, Chromium, Iron, Magnesium, Manganese and Nickel due to Chemical Interference during Digestion Process.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

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



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

Signature_____

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5375

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 Custody

✓

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: 01/02/2025

LAB CHRONICLE

OrderID:	P5375	OrderDate:	12/20/2024 3:08:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	N21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5375-01	TT-RW10A-IDWGW-2 0241219	Water			12/19/24			12/20/24
			Mercury	7470A		12/26/24	12/26/24	
			Metals ICP-TAL	6010D		12/23/24	12/26/24	

Hit Summary Sheet
SW-846

SDG No.: P5375

Order ID: P5375

Client: Tetra Tech NUS, Inc.

Project ID: CTO WE13

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TT-RW10A-IDWGW-20241219									
P5375-01	TT-RW10A-IDWGW-20241219	Water	Aluminum	1470		28.3	40.0	50.0	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Barium	14.4	J	6.28	12.5	50.0	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Cadmium	0.13	J	0.094	0.75	3.00	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Calcium	7580		33.0	250	1000	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Chromium	27.3		0.66	2.50	5.00	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Cobalt	19.7		0.50	3.75	15.0	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Copper	39.5		7.07	8.00	10.0	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Iron	2450		18.5	40.0	50.0	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Magnesium	3480		39.4	250	1000	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Manganese	109		1.46	2.50	10.0	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Nickel	37.5		0.85	5.00	20.0	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Potassium	2940		685	800	1000	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Silver	1.87	J	0.58	2.50	5.00	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Sodium	50300		237	500	1000	ug/L
P5375-01	TT-RW10A-IDWGW-20241219	Water	Zinc	79.1		1.75	5.00	20.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/19/24
Project:	CTO WE13	Date Received:	12/20/24
Client Sample ID:	TT-RW10A-IDWGW-20241219	SDG No.:	P5375
Lab Sample ID:	P5375-01	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	1470		1	28.3	40.0	50.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-36-0	Antimony	6.25	U	1	2.06	6.25	25.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-38-2	Arsenic	8.00	U	1	3.48	8.00	10.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-39-3	Barium	14.4	JN	1	6.28	12.5	50.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-41-7	Beryllium	0.75	UN	1	0.13	0.75	3.00	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-43-9	Cadmium	0.13	JN	1	0.094	0.75	3.00	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-70-2	Calcium	7580		1	33.0	250	1000	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-47-3	Chromium	27.3	N	1	0.66	2.50	5.00	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-48-4	Cobalt	19.7		1	0.50	3.75	15.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-50-8	Copper	39.5		1	7.07	8.00	10.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7439-89-6	Iron	2450	N	1	18.5	40.0	50.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7439-92-1	Lead	4.80	U	1	3.51	4.80	6.00	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7439-95-4	Magnesium	3480	N	1	39.4	250	1000	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7439-96-5	Manganese	109	N	1	1.46	2.50	10.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7439-97-6	Mercury	0.16	U	1	0.081	0.16	0.20	ug/L	12/26/24 07:20	12/26/24 11:21	SW7470A	
7440-02-0	Nickel	37.5	N	1	0.85	5.00	20.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-09-7	Potassium	2940		1	685	800	1000	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7782-49-2	Selenium	8.00	U	1	5.88	8.00	10.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-22-4	Silver	1.87	J	1	0.58	2.50	5.00	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-23-5	Sodium	50300		1	237	500	1000	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-28-0	Thallium	10.0	U	1	2.32	10.0	20.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-62-2	Vanadium	10.0	U	1	3.06	10.0	20.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010
7440-66-6	Zinc	79.1		1	1.75	5.00	20.0	ug/L	12/23/24 16:05	12/26/24 14:46	SW6010	SW3010

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

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

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



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375
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
ICV30	Mercury	3.81	4.0	95	90 - 110	CV	12/26/2024	10:52	LB134084

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375

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
CCV64	Mercury	4.95	5.0	99	90 - 110	CV	12/26/2024	10:57	LB134084
CCV65	Mercury	4.94	5.0	99	90 - 110	CV	12/26/2024	11:33	LB134084
CCV66	Mercury	4.88	5.0	98	90 - 110	CV	12/26/2024	11:45	LB134084

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375
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	2390	2500	95	90 - 110	P	12/26/2024	10:01	LB134090
	Antimony	1010	1000	101	90 - 110	P	12/26/2024	10:01	LB134090
	Arsenic	1020	1000	102	90 - 110	P	12/26/2024	10:01	LB134090
	Barium	473	520	91	90 - 110	P	12/26/2024	10:01	LB134090
	Beryllium	472	510	92	90 - 110	P	12/26/2024	10:01	LB134090
	Cadmium	493	510	97	90 - 110	P	12/26/2024	10:01	LB134090
	Calcium	9230	10000	92	90 - 110	P	12/26/2024	10:01	LB134090
	Chromium	525	520	101	90 - 110	P	12/26/2024	10:01	LB134090
	Cobalt	502	520	96	90 - 110	P	12/26/2024	10:01	LB134090
	Copper	520	510	102	90 - 110	P	12/26/2024	10:01	LB134090
	Iron	9880	10000	99	90 - 110	P	12/26/2024	10:01	LB134090
	Lead	995	1000	100	90 - 110	P	12/26/2024	10:01	LB134090
	Magnesium	5450	6000	91	90 - 110	P	12/26/2024	10:01	LB134090
	Manganese	478	520	92	90 - 110	P	12/26/2024	10:01	LB134090
	Nickel	505	530	95	90 - 110	P	12/26/2024	10:01	LB134090
	Potassium	9830	9900	99	90 - 110	P	12/26/2024	10:01	LB134090
	Selenium	1030	1000	103	90 - 110	P	12/26/2024	10:01	LB134090
	Silver	256	250	102	90 - 110	P	12/26/2024	10:01	LB134090
	Sodium	9950	10000	100	90 - 110	P	12/26/2024	10:01	LB134090
	Thallium	1020	1000	102	90 - 110	P	12/26/2024	10:01	LB134090
	Vanadium	474	500	95	90 - 110	P	12/26/2024	10:01	LB134090
	Zinc	1010	1000	101	90 - 110	P	12/26/2024	10:01	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375
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	96.1	100	96	80 - 120	P	12/26/2024	10:05	LB134090
	Antimony	49.3	50.0	99	80 - 120	P	12/26/2024	10:05	LB134090
	Arsenic	21.1	20.0	106	80 - 120	P	12/26/2024	10:05	LB134090
	Barium	87.3	100	87	80 - 120	P	12/26/2024	10:05	LB134090
	Beryllium	5.80	6.0	97	80 - 120	P	12/26/2024	10:05	LB134090
	Cadmium	5.76	6.0	96	80 - 120	P	12/26/2024	10:05	LB134090
	Calcium	1940	2000	97	80 - 120	P	12/26/2024	10:05	LB134090
	Chromium	9.84	10.0	98	80 - 120	P	12/26/2024	10:05	LB134090
	Cobalt	29.2	30.0	97	80 - 120	P	12/26/2024	10:05	LB134090
	Copper	21.5	20.0	108	80 - 120	P	12/26/2024	10:05	LB134090
	Iron	100	100	100	80 - 120	P	12/26/2024	10:05	LB134090
	Lead	11.5	12.0	96	80 - 120	P	12/26/2024	10:05	LB134090
	Magnesium	1980	2000	99	80 - 120	P	12/26/2024	10:05	LB134090
	Manganese	19.6	20.0	98	80 - 120	P	12/26/2024	10:05	LB134090
	Nickel	39.2	40.0	98	80 - 120	P	12/26/2024	10:05	LB134090
	Potassium	2020	2000	101	80 - 120	P	12/26/2024	10:05	LB134090
	Selenium	19.0	20.0	95	80 - 120	P	12/26/2024	10:05	LB134090
	Silver	11.5	10.0	115	80 - 120	P	12/26/2024	10:05	LB134090
	Sodium	1950	2000	98	80 - 120	P	12/26/2024	10:05	LB134090
	Thallium	41.1	40.0	103	80 - 120	P	12/26/2024	10:05	LB134090
	Vanadium	37.3	40.0	93	80 - 120	P	12/26/2024	10:05	LB134090
	Zinc	42.6	40.0	107	80 - 120	P	12/26/2024	10:05	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375
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	9410	10000	94	90 - 110	P	12/26/2024	10:32	LB134090
	Antimony	5270	5000	105	90 - 110	P	12/26/2024	10:32	LB134090
	Arsenic	5070	5000	101	90 - 110	P	12/26/2024	10:32	LB134090
	Barium	9200	10000	92	90 - 110	P	12/26/2024	10:32	LB134090
	Beryllium	255	250	102	90 - 110	P	12/26/2024	10:32	LB134090
	Cadmium	2250	2500	90	90 - 110	P	12/26/2024	10:32	LB134090
	Calcium	27300	25000	109	90 - 110	P	12/26/2024	10:32	LB134090
	Chromium	944	1000	94	90 - 110	P	12/26/2024	10:32	LB134090
	Cobalt	2330	2500	93	90 - 110	P	12/26/2024	10:32	LB134090
	Copper	1250	1250	100	90 - 110	P	12/26/2024	10:32	LB134090
	Iron	4750	5000	95	90 - 110	P	12/26/2024	10:32	LB134090
	Lead	4690	5000	94	90 - 110	P	12/26/2024	10:32	LB134090
	Magnesium	24100	25000	96	90 - 110	P	12/26/2024	10:32	LB134090
	Manganese	2280	2500	91	90 - 110	P	12/26/2024	10:32	LB134090
	Nickel	2320	2500	93	90 - 110	P	12/26/2024	10:32	LB134090
	Potassium	25300	25000	101	90 - 110	P	12/26/2024	10:32	LB134090
	Selenium	5250	5000	105	90 - 110	P	12/26/2024	10:32	LB134090
	Silver	1210	1250	97	90 - 110	P	12/26/2024	10:32	LB134090
	Sodium	26300	25000	105	90 - 110	P	12/26/2024	10:32	LB134090
	Thallium	5030	5000	101	90 - 110	P	12/26/2024	10:32	LB134090
	Vanadium	2280	2500	91	90 - 110	P	12/26/2024	10:32	LB134090
	Zinc	2450	2500	98	90 - 110	P	12/26/2024	10:32	LB134090
CCV02	Aluminum	9800	10000	98	90 - 110	P	12/26/2024	11:24	LB134090
	Antimony	5490	5000	110	90 - 110	P	12/26/2024	11:24	LB134090
	Arsenic	5190	5000	104	90 - 110	P	12/26/2024	11:24	LB134090
	Barium	9350	10000	94	90 - 110	P	12/26/2024	11:24	LB134090
	Beryllium	250	250	100	90 - 110	P	12/26/2024	11:24	LB134090
	Cadmium	2410	2500	96	90 - 110	P	12/26/2024	11:24	LB134090
	Calcium	27200	25000	109	90 - 110	P	12/26/2024	11:24	LB134090
	Chromium	959	1000	96	90 - 110	P	12/26/2024	11:24	LB134090
	Cobalt	2350	2500	94	90 - 110	P	12/26/2024	11:24	LB134090
	Copper	1280	1250	102	90 - 110	P	12/26/2024	11:24	LB134090
	Iron	4780	5000	96	90 - 110	P	12/26/2024	11:24	LB134090
	Lead	4710	5000	94	90 - 110	P	12/26/2024	11:24	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375
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	24400	25000	98	90 - 110	P	12/26/2024	11:24	LB134090
	Manganese	2420	2500	97	90 - 110	P	12/26/2024	11:24	LB134090
	Nickel	2340	2500	94	90 - 110	P	12/26/2024	11:24	LB134090
	Potassium	26200	25000	105	90 - 110	P	12/26/2024	11:24	LB134090
	Selenium	5400	5000	108	90 - 110	P	12/26/2024	11:24	LB134090
	Silver	1230	1250	99	90 - 110	P	12/26/2024	11:24	LB134090
	Sodium	27400	25000	110	90 - 110	P	12/26/2024	11:24	LB134090
	Thallium	5080	5000	102	90 - 110	P	12/26/2024	11:24	LB134090
	Vanadium	2340	2500	94	90 - 110	P	12/26/2024	11:24	LB134090
	Zinc	2520	2500	101	90 - 110	P	12/26/2024	11:24	LB134090
CCV03	Aluminum	9690	10000	97	90 - 110	P	12/26/2024	12:10	LB134090
	Antimony	5440	5000	109	90 - 110	P	12/26/2024	12:10	LB134090
	Arsenic	5090	5000	102	90 - 110	P	12/26/2024	12:10	LB134090
	Barium	9180	10000	92	90 - 110	P	12/26/2024	12:10	LB134090
	Beryllium	246	250	98	90 - 110	P	12/26/2024	12:10	LB134090
	Cadmium	2540	2500	102	90 - 110	P	12/26/2024	12:10	LB134090
	Calcium	27200	25000	109	90 - 110	P	12/26/2024	12:10	LB134090
	Chromium	952	1000	95	90 - 110	P	12/26/2024	12:10	LB134090
	Cobalt	2280	2500	91	90 - 110	P	12/26/2024	12:10	LB134090
	Copper	1250	1250	100	90 - 110	P	12/26/2024	12:10	LB134090
	Iron	4730	5000	95	90 - 110	P	12/26/2024	12:10	LB134090
	Lead	4620	5000	92	90 - 110	P	12/26/2024	12:10	LB134090
	Magnesium	23900	25000	96	90 - 110	P	12/26/2024	12:10	LB134090
	Manganese	2430	2500	97	90 - 110	P	12/26/2024	12:10	LB134090
	Nickel	2260	2500	91	90 - 110	P	12/26/2024	12:10	LB134090
	Potassium	26700	25000	107	90 - 110	P	12/26/2024	12:10	LB134090
	Selenium	5340	5000	107	90 - 110	P	12/26/2024	12:10	LB134090
	Silver	1240	1250	99	90 - 110	P	12/26/2024	12:10	LB134090
	Sodium	23000	25000	92	90 - 110	P	12/26/2024	12:10	LB134090
	Thallium	5080	5000	102	90 - 110	P	12/26/2024	12:10	LB134090
	Vanadium	2300	2500	92	90 - 110	P	12/26/2024	12:10	LB134090
	Zinc	2480	2500	99	90 - 110	P	12/26/2024	12:10	LB134090
CCV04	Aluminum	9580	10000	96	90 - 110	P	12/26/2024	13:02	LB134090
	Antimony	5410	5000	108	90 - 110	P	12/26/2024	13:02	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375
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	5060	5000	101	90 - 110	P	12/26/2024	13:02	LB134090
	Barium	9110	10000	91	90 - 110	P	12/26/2024	13:02	LB134090
	Beryllium	241	250	96	90 - 110	P	12/26/2024	13:02	LB134090
	Cadmium	2340	2500	94	90 - 110	P	12/26/2024	13:02	LB134090
	Calcium	26400	25000	106	90 - 110	P	12/26/2024	13:02	LB134090
	Chromium	948	1000	95	90 - 110	P	12/26/2024	13:02	LB134090
	Cobalt	2280	2500	91	90 - 110	P	12/26/2024	13:02	LB134090
	Copper	1250	1250	100	90 - 110	P	12/26/2024	13:02	LB134090
	Iron	4660	5000	93	90 - 110	P	12/26/2024	13:02	LB134090
	Lead	4610	5000	92	90 - 110	P	12/26/2024	13:02	LB134090
	Magnesium	23400	25000	94	90 - 110	P	12/26/2024	13:02	LB134090
	Manganese	2630	2500	105	90 - 110	P	12/26/2024	13:02	LB134090
	Nickel	2270	2500	91	90 - 110	P	12/26/2024	13:02	LB134090
	Potassium	26300	25000	105	90 - 110	P	12/26/2024	13:02	LB134090
	Selenium	5280	5000	106	90 - 110	P	12/26/2024	13:02	LB134090
	Silver	1220	1250	98	90 - 110	P	12/26/2024	13:02	LB134090
	Sodium	22900	25000	92	90 - 110	P	12/26/2024	13:02	LB134090
	Thallium	5060	5000	101	90 - 110	P	12/26/2024	13:02	LB134090
	Vanadium	2280	2500	91	90 - 110	P	12/26/2024	13:02	LB134090
	Zinc	2490	2500	100	90 - 110	P	12/26/2024	13:02	LB134090
CCV05	Aluminum	9780	10000	98	90 - 110	P	12/26/2024	14:37	LB134090
	Antimony	5040	5000	101	90 - 110	P	12/26/2024	14:37	LB134090
	Arsenic	5180	5000	104	90 - 110	P	12/26/2024	14:37	LB134090
	Barium	9300	10000	93	90 - 110	P	12/26/2024	14:37	LB134090
	Beryllium	236	250	94	90 - 110	P	12/26/2024	14:37	LB134090
	Cadmium	2330	2500	93	90 - 110	P	12/26/2024	14:37	LB134090
	Calcium	26200	25000	105	90 - 110	P	12/26/2024	14:37	LB134090
	Chromium	931	1000	93	90 - 110	P	12/26/2024	14:37	LB134090
	Cobalt	2290	2500	91	90 - 110	P	12/26/2024	14:37	LB134090
	Copper	1270	1250	102	90 - 110	P	12/26/2024	14:37	LB134090
	Iron	4710	5000	94	90 - 110	P	12/26/2024	14:37	LB134090
	Lead	4600	5000	92	90 - 110	P	12/26/2024	14:37	LB134090
	Magnesium	27100	25000	109	90 - 110	P	12/26/2024	14:37	LB134090
	Manganese	2630	2500	105	90 - 110	P	12/26/2024	14:37	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375
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	2270	2500	91	90 - 110	P	12/26/2024	14:37	LB134090
	Potassium	27100	25000	108	90 - 110	P	12/26/2024	14:37	LB134090
	Selenium	5430	5000	109	90 - 110	P	12/26/2024	14:37	LB134090
	Silver	1230	1250	98	90 - 110	P	12/26/2024	14:37	LB134090
	Sodium	26200	25000	105	90 - 110	P	12/26/2024	14:37	LB134090
	Thallium	5000	5000	100	90 - 110	P	12/26/2024	14:37	LB134090
	Vanadium	2310	2500	92	90 - 110	P	12/26/2024	14:37	LB134090
	Zinc	2500	2500	100	90 - 110	P	12/26/2024	14:37	LB134090
CCV06	Aluminum	9690	10000	97	90 - 110	P	12/26/2024	15:24	LB134090
	Antimony	4520	5000	90	90 - 110	P	12/26/2024	15:24	LB134090
	Arsenic	5320	5000	106	90 - 110	P	12/26/2024	15:24	LB134090
	Barium	9100	10000	91	90 - 110	P	12/26/2024	15:24	LB134090
	Beryllium	270	250	108	90 - 110	P	12/26/2024	15:24	LB134090
	Cadmium	2310	2500	92	90 - 110	P	12/26/2024	15:24	LB134090
	Calcium	26700	25000	107	90 - 110	P	12/26/2024	15:24	LB134090
	Chromium	925	1000	92	90 - 110	P	12/26/2024	15:24	LB134090
	Cobalt	2270	2500	91	90 - 110	P	12/26/2024	15:24	LB134090
	Copper	1280	1250	103	90 - 110	P	12/26/2024	15:24	LB134090
	Iron	4630	5000	93	90 - 110	P	12/26/2024	15:24	LB134090
	Lead	4580	5000	92	90 - 110	P	12/26/2024	15:24	LB134090
	Magnesium	23000	25000	92	90 - 110	P	12/26/2024	15:24	LB134090
	Manganese	2510	2500	100	90 - 110	P	12/26/2024	15:24	LB134090
	Nickel	2250	2500	90	90 - 110	P	12/26/2024	15:24	LB134090
	Potassium	27200	25000	109	90 - 110	P	12/26/2024	15:24	LB134090
	Selenium	4570	5000	91	90 - 110	P	12/26/2024	15:24	LB134090
	Silver	1220	1250	98	90 - 110	P	12/26/2024	15:24	LB134090
	Sodium	24000	25000	96	90 - 110	P	12/26/2024	15:24	LB134090
	Thallium	5150	5000	103	90 - 110	P	12/26/2024	15:24	LB134090
	Vanadium	2260	2500	90	90 - 110	P	12/26/2024	15:24	LB134090
	Zinc	2500	2500	100	90 - 110	P	12/26/2024	15:24	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2490	2500	99	90 - 110	P	12/27/2024	13:54	LB134113
	Antimony	1030	1000	103	90 - 110	P	12/27/2024	13:54	LB134113
	Arsenic	1070	1000	107	90 - 110	P	12/27/2024	13:54	LB134113
	Barium	543	520	104	90 - 110	P	12/27/2024	13:54	LB134113
	Beryllium	525	510	103	90 - 110	P	12/27/2024	13:54	LB134113
	Cadmium	510	510	100	90 - 110	P	12/27/2024	13:54	LB134113
	Calcium	9630	10000	96	90 - 110	P	12/27/2024	13:54	LB134113
	Chromium	543	520	104	90 - 110	P	12/27/2024	13:54	LB134113
	Cobalt	519	520	100	90 - 110	P	12/27/2024	13:54	LB134113
	Copper	499	510	98	90 - 110	P	12/27/2024	13:54	LB134113
	Iron	10200	10000	102	90 - 110	P	12/27/2024	13:54	LB134113
	Lead	1020	1000	102	90 - 110	P	12/27/2024	13:54	LB134113
	Magnesium	5710	6000	95	90 - 110	P	12/27/2024	13:54	LB134113
	Manganese	498	520	96	90 - 110	P	12/27/2024	13:54	LB134113
	Nickel	520	530	98	90 - 110	P	12/27/2024	13:54	LB134113
	Potassium	10200	9900	103	90 - 110	P	12/27/2024	13:54	LB134113
	Selenium	1010	1000	101	90 - 110	P	12/27/2024	13:54	LB134113
	Silver	262	250	105	90 - 110	P	12/27/2024	13:54	LB134113
	Sodium	10000	10000	100	90 - 110	P	12/27/2024	13:54	LB134113
	Thallium	1080	1000	108	90 - 110	P	12/27/2024	13:54	LB134113
	Vanadium	478	500	96	90 - 110	P	12/27/2024	13:54	LB134113
	Zinc	1010	1000	102	90 - 110	P	12/27/2024	13:54	LB134113

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375
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	100	100	100	80 - 120	P	12/27/2024	14:08	LB134113
	Antimony	51.2	50.0	102	80 - 120	P	12/27/2024	14:08	LB134113
	Arsenic	21.7	20.0	108	80 - 120	P	12/27/2024	14:08	LB134113
	Barium	88.3	100	88	80 - 120	P	12/27/2024	14:08	LB134113
	Beryllium	5.61	6.0	93	80 - 120	P	12/27/2024	14:08	LB134113
	Cadmium	5.74	6.0	96	80 - 120	P	12/27/2024	14:08	LB134113
	Calcium	1910	2000	96	80 - 120	P	12/27/2024	14:08	LB134113
	Chromium	9.56	10.0	96	80 - 120	P	12/27/2024	14:08	LB134113
	Cobalt	29.2	30.0	98	80 - 120	P	12/27/2024	14:08	LB134113
	Copper	22.5	20.0	112	80 - 120	P	12/27/2024	14:08	LB134113
	Iron	95.4	100	95	80 - 120	P	12/27/2024	14:08	LB134113
	Lead	12.0	12.0	100	80 - 120	P	12/27/2024	14:08	LB134113
	Magnesium	1990	2000	100	80 - 120	P	12/27/2024	14:08	LB134113
	Manganese	19.0	20.0	95	80 - 120	P	12/27/2024	14:08	LB134113
	Nickel	38.9	40.0	97	80 - 120	P	12/27/2024	14:08	LB134113
	Potassium	2010	2000	101	80 - 120	P	12/27/2024	14:08	LB134113
	Selenium	19.6	20.0	98	80 - 120	P	12/27/2024	14:08	LB134113
	Silver	11.2	10.0	112	80 - 120	P	12/27/2024	14:08	LB134113
	Sodium	1920	2000	96	80 - 120	P	12/27/2024	14:08	LB134113
	Thallium	42.0	40.0	105	80 - 120	P	12/27/2024	14:08	LB134113
	Vanadium	37.9	40.0	95	80 - 120	P	12/27/2024	14:08	LB134113
	Zinc	45.1	40.0	113	80 - 120	P	12/27/2024	14:08	LB134113

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375
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	10000	10000	100	90 - 110	P	12/27/2024	15:34	LB134113
	Antimony	5330	5000	107	90 - 110	P	12/27/2024	15:34	LB134113
	Arsenic	5330	5000	107	90 - 110	P	12/27/2024	15:34	LB134113
	Barium	9890	10000	99	90 - 110	P	12/27/2024	15:34	LB134113
	Beryllium	240	250	96	90 - 110	P	12/27/2024	15:34	LB134113
	Cadmium	2540	2500	101	90 - 110	P	12/27/2024	15:34	LB134113
	Calcium	24100	25000	96	90 - 110	P	12/27/2024	15:34	LB134113
	Chromium	1030	1000	103	90 - 110	P	12/27/2024	15:34	LB134113
	Cobalt	2540	2500	102	90 - 110	P	12/27/2024	15:34	LB134113
	Copper	1270	1250	102	90 - 110	P	12/27/2024	15:34	LB134113
	Iron	5030	5000	101	90 - 110	P	12/27/2024	15:34	LB134113
	Lead	5080	5000	102	90 - 110	P	12/27/2024	15:34	LB134113
	Magnesium	23800	25000	95	90 - 110	P	12/27/2024	15:34	LB134113
	Manganese	2360	2500	94	90 - 110	P	12/27/2024	15:34	LB134113
	Nickel	2540	2500	102	90 - 110	P	12/27/2024	15:34	LB134113
	Potassium	26200	25000	105	90 - 110	P	12/27/2024	15:34	LB134113
	Selenium	5370	5000	107	90 - 110	P	12/27/2024	15:34	LB134113
	Silver	1290	1250	103	90 - 110	P	12/27/2024	15:34	LB134113
	Sodium	26100	25000	104	90 - 110	P	12/27/2024	15:34	LB134113
	Thallium	5330	5000	107	90 - 110	P	12/27/2024	15:34	LB134113
	Vanadium	2460	2500	98	90 - 110	P	12/27/2024	15:34	LB134113
	Zinc	2600	2500	104	90 - 110	P	12/27/2024	15:34	LB134113
CCV02	Aluminum	10100	10000	101	90 - 110	P	12/27/2024	16:32	LB134113
	Antimony	5340	5000	107	90 - 110	P	12/27/2024	16:32	LB134113
	Arsenic	5370	5000	107	90 - 110	P	12/27/2024	16:32	LB134113
	Barium	9760	10000	98	90 - 110	P	12/27/2024	16:32	LB134113
	Beryllium	240	250	96	90 - 110	P	12/27/2024	16:32	LB134113
	Cadmium	2540	2500	102	90 - 110	P	12/27/2024	16:32	LB134113
	Calcium	24100	25000	96	90 - 110	P	12/27/2024	16:32	LB134113
	Chromium	1040	1000	104	90 - 110	P	12/27/2024	16:32	LB134113
	Cobalt	2540	2500	101	90 - 110	P	12/27/2024	16:32	LB134113
	Copper	1330	1250	106	90 - 110	P	12/27/2024	16:32	LB134113
	Iron	5070	5000	101	90 - 110	P	12/27/2024	16:32	LB134113
	Lead	5070	5000	101	90 - 110	P	12/27/2024	16:32	LB134113

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375

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	24100	25000	96	90 - 110	P	12/27/2024	16:32	LB134113
	Manganese	2340	2500	94	90 - 110	P	12/27/2024	16:32	LB134113
	Nickel	2540	2500	102	90 - 110	P	12/27/2024	16:32	LB134113
	Potassium	26100	25000	104	90 - 110	P	12/27/2024	16:32	LB134113
	Selenium	5410	5000	108	90 - 110	P	12/27/2024	16:32	LB134113
	Silver	1290	1250	104	90 - 110	P	12/27/2024	16:32	LB134113
	Sodium	25400	25000	102	90 - 110	P	12/27/2024	16:32	LB134113
	Thallium	5300	5000	106	90 - 110	P	12/27/2024	16:32	LB134113
	Vanadium	2470	2500	99	90 - 110	P	12/27/2024	16:32	LB134113
	Zinc	2600	2500	104	90 - 110	P	12/27/2024	16:32	LB134113
CCV03	Aluminum	10700	10000	107	90 - 110	P	12/27/2024	16:59	LB134113
	Antimony	5300	5000	106	90 - 110	P	12/27/2024	16:59	LB134113
	Arsenic	5270	5000	105	90 - 110	P	12/27/2024	16:59	LB134113
	Barium	9780	10000	98	90 - 110	P	12/27/2024	16:59	LB134113
	Beryllium	248	250	99	90 - 110	P	12/27/2024	16:59	LB134113
	Cadmium	2550	2500	102	90 - 110	P	12/27/2024	16:59	LB134113
	Calcium	25000	25000	100	90 - 110	P	12/27/2024	16:59	LB134113
	Chromium	1060	1000	106	90 - 110	P	12/27/2024	16:59	LB134113
	Cobalt	2560	2500	102	90 - 110	P	12/27/2024	16:59	LB134113
	Copper	1320	1250	106	90 - 110	P	12/27/2024	16:59	LB134113
	Iron	5330	5000	107	90 - 110	P	12/27/2024	16:59	LB134113
	Lead	5110	5000	102	90 - 110	P	12/27/2024	16:59	LB134113
	Magnesium	25200	25000	101	90 - 110	P	12/27/2024	16:59	LB134113
	Manganese	2390	2500	96	90 - 110	P	12/27/2024	16:59	LB134113
	Nickel	2550	2500	102	90 - 110	P	12/27/2024	16:59	LB134113
	Potassium	26100	25000	104	90 - 110	P	12/27/2024	16:59	LB134113
	Selenium	5290	5000	106	90 - 110	P	12/27/2024	16:59	LB134113
	Silver	1310	1250	105	90 - 110	P	12/27/2024	16:59	LB134113
	Sodium	24900	25000	100	90 - 110	P	12/27/2024	16:59	LB134113
	Thallium	5130	5000	103	90 - 110	P	12/27/2024	16:59	LB134113
	Vanadium	2520	2500	101	90 - 110	P	12/27/2024	16:59	LB134113
	Zinc	2590	2500	104	90 - 110	P	12/27/2024	16:59	LB134113

Metals

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CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Aluminum	96.1	100	96	40 - 160	P	12/26/2024	10:14	LB134090
	Antimony	48.9	50.0	98	40 - 160	P	12/26/2024	10:14	LB134090
	Arsenic	21.0	20.0	105	40 - 160	P	12/26/2024	10:14	LB134090
	Barium	84.6	100	85	40 - 160	P	12/26/2024	10:14	LB134090
	Beryllium	5.71	6.0	95	40 - 160	P	12/26/2024	10:14	LB134090
	Cadmium	5.69	6.0	95	40 - 160	P	12/26/2024	10:14	LB134090
	Calcium	1930	2000	97	40 - 160	P	12/26/2024	10:14	LB134090
	Chromium	9.83	10.0	98	40 - 160	P	12/26/2024	10:14	LB134090
	Cobalt	29.0	30.0	97	40 - 160	P	12/26/2024	10:14	LB134090
	Copper	21.7	20.0	108	40 - 160	P	12/26/2024	10:14	LB134090
	Iron	94.5	100	94	40 - 160	P	12/26/2024	10:14	LB134090
	Lead	11.2	12.0	94	40 - 160	P	12/26/2024	10:14	LB134090
	Magnesium	1970	2000	98	40 - 160	P	12/26/2024	10:14	LB134090
	Manganese	19.3	20.0	97	40 - 160	P	12/26/2024	10:14	LB134090
	Nickel	38.6	40.0	97	40 - 160	P	12/26/2024	10:14	LB134090
	Potassium	1990	2000	99	40 - 160	P	12/26/2024	10:14	LB134090
	Selenium	20.1	20.0	101	40 - 160	P	12/26/2024	10:14	LB134090
	Silver	12.1	10.0	121	40 - 160	P	12/26/2024	10:14	LB134090
	Sodium	1940	2000	97	40 - 160	P	12/26/2024	10:14	LB134090
	Thallium	39.3	40.0	98	40 - 160	P	12/26/2024	10:14	LB134090
	Vanadium	36.0	40.0	90	40 - 160	P	12/26/2024	10:14	LB134090
	Zinc	43.0	40.0	108	40 - 160	P	12/26/2024	10:14	LB134090
CRA	Mercury	0.23	0.2	114	40 - 160	CV	12/26/2024	11:07	LB134084
CRI01	Aluminum	102	100	102	40 - 160	P	12/27/2024	15:03	LB134113
	Antimony	52.5	50.0	105	40 - 160	P	12/27/2024	15:03	LB134113
	Arsenic	21.2	20.0	106	40 - 160	P	12/27/2024	15:03	LB134113
	Barium	88.2	100	88	40 - 160	P	12/27/2024	15:03	LB134113
	Beryllium	5.58	6.0	93	40 - 160	P	12/27/2024	15:03	LB134113
	Cadmium	5.78	6.0	96	40 - 160	P	12/27/2024	15:03	LB134113
	Calcium	1910	2000	95	40 - 160	P	12/27/2024	15:03	LB134113
	Chromium	9.47	10.0	95	40 - 160	P	12/27/2024	15:03	LB134113
	Cobalt	29.4	30.0	98	40 - 160	P	12/27/2024	15:03	LB134113
	Copper	22.9	20.0	114	40 - 160	P	12/27/2024	15:03	LB134113
	Iron	92.5	100	92	40 - 160	P	12/27/2024	15:03	LB134113
	Lead	11.6	12.0	96	40 - 160	P	12/27/2024	15:03	LB134113

Metals
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CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375

Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375

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	1990	2000	99	40 - 160	P	12/27/2024	15:03	LB134113
	Manganese	19.0	20.0	95	40 - 160	P	12/27/2024	15:03	LB134113
	Nickel	39.0	40.0	97	40 - 160	P	12/27/2024	15:03	LB134113
	Potassium	2050	2000	103	40 - 160	P	12/27/2024	15:03	LB134113
	Selenium	20.8	20.0	104	40 - 160	P	12/27/2024	15:03	LB134113
	Silver	10.8	10.0	108	40 - 160	P	12/27/2024	15:03	LB134113
	Sodium	1940	2000	97	40 - 160	P	12/27/2024	15:03	LB134113
	Thallium	41.4	40.0	104	40 - 160	P	12/27/2024	15:03	LB134113
	Vanadium	38.1	40.0	95	40 - 160	P	12/27/2024	15:03	LB134113
	Zinc	43.8	40.0	110	40 - 160	P	12/27/2024	15:03	LB134113



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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	Tetra Tech NUS, Inc.				SDG No.:	P5375				
Contract:	TETR06	Lab Code:	CHEM	Case No.:	P5375	SAS No.:	P5375			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB30	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/26/2024	10:55	LB134084

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB64	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/26/2024	10:59	LB134084
CCB65	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/26/2024	11:35	LB134084
CCB66	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/26/2024	11:47	LB134084

A

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H

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	80.0	100	P	12/26/2024	10:10	LB134090
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/26/2024	10:10	LB134090
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	10:10	LB134090
	Barium	100	+/-100	U	25.0	100	P	12/26/2024	10:10	LB134090
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	10:10	LB134090
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	10:10	LB134090
	Calcium	2000	+/-2000	U	500	2000	P	12/26/2024	10:10	LB134090
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/26/2024	10:10	LB134090
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/26/2024	10:10	LB134090
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	10:10	LB134090
	Iron	100	+/-100	U	80.0	100	P	12/26/2024	10:10	LB134090
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/26/2024	10:10	LB134090
	Magnesium	2000	+/-2000	U	500	2000	P	12/26/2024	10:10	LB134090
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/26/2024	10:10	LB134090
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	10:10	LB134090
	Potassium	2000	+/-2000	U	1600	2000	P	12/26/2024	10:10	LB134090
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	10:10	LB134090
	Silver	1.63	+/-10.0	J	5.00	10.0	P	12/26/2024	10:10	LB134090
	Sodium	2000	+/-2000	U	1000	2000	P	12/26/2024	10:10	LB134090
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	10:10	LB134090
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	10:10	LB134090
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	10:10	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	80.0	100	P	12/26/2024	10:38	LB134090
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/26/2024	10:38	LB134090
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	10:38	LB134090
	Barium	100	+/-100	U	25.0	100	P	12/26/2024	10:38	LB134090
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	10:38	LB134090
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	10:38	LB134090
	Calcium	2000	+/-2000	U	500	2000	P	12/26/2024	10:38	LB134090
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/26/2024	10:38	LB134090
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/26/2024	10:38	LB134090
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	10:38	LB134090
	Iron	100	+/-100	U	80.0	100	P	12/26/2024	10:38	LB134090
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/26/2024	10:38	LB134090
	Magnesium	2000	+/-2000	U	500	2000	P	12/26/2024	10:38	LB134090
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/26/2024	10:38	LB134090
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	10:38	LB134090
	Potassium	2000	+/-2000	U	1600	2000	P	12/26/2024	10:38	LB134090
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	10:38	LB134090
	Silver	2.84	+/-10.0	J	5.00	10.0	P	12/26/2024	10:38	LB134090
	Sodium	2000	+/-2000	U	1000	2000	P	12/26/2024	10:38	LB134090
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	10:38	LB134090
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	10:38	LB134090
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	10:38	LB134090
CCB02	Aluminum	100	+/-100	U	80.0	100	P	12/26/2024	11:30	LB134090
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/26/2024	11:30	LB134090
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	11:30	LB134090
	Barium	100	+/-100	U	25.0	100	P	12/26/2024	11:30	LB134090
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	11:30	LB134090
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	11:30	LB134090
	Calcium	2000	+/-2000	U	500	2000	P	12/26/2024	11:30	LB134090
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/26/2024	11:30	LB134090
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/26/2024	11:30	LB134090
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	11:30	LB134090
	Iron	100	+/-100	U	80.0	100	P	12/26/2024	11:30	LB134090
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/26/2024	11:30	LB134090
	Magnesium	2000	+/-2000	U	500	2000	P	12/26/2024	11:30	LB134090
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/26/2024	11:30	LB134090
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	11:30	LB134090
	Potassium	2000	+/-2000	U	1600	2000	P	12/26/2024	11:30	LB134090
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	11:30	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.		SDG No.: P5375								
Contract: TETR06	Lab Code: CHEM	Case No.: P5375			SAS No.: P5375					
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	2.72	+/-10.0	J	5.00	10.0	P	12/26/2024	11:30	LB134090
	Sodium	2000	+/-2000	U	1000	2000	P	12/26/2024	11:30	LB134090
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	11:30	LB134090
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	11:30	LB134090
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	11:30	LB134090
CCB03	Aluminum	100	+/-100	U	80.0	100	P	12/26/2024	12:15	LB134090
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/26/2024	12:15	LB134090
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	12:15	LB134090
	Barium	100	+/-100	U	25.0	100	P	12/26/2024	12:15	LB134090
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	12:15	LB134090
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	12:15	LB134090
	Calcium	2000	+/-2000	U	500	2000	P	12/26/2024	12:15	LB134090
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/26/2024	12:15	LB134090
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/26/2024	12:15	LB134090
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	12:15	LB134090
	Iron	100	+/-100	U	80.0	100	P	12/26/2024	12:15	LB134090
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/26/2024	12:15	LB134090
	Magnesium	2000	+/-2000	U	500	2000	P	12/26/2024	12:15	LB134090
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/26/2024	12:15	LB134090
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	12:15	LB134090
	Potassium	2000	+/-2000	U	1600	2000	P	12/26/2024	12:15	LB134090
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	12:15	LB134090
	Silver	3.24	+/-10.0	J	5.00	10.0	P	12/26/2024	12:15	LB134090
	Sodium	2000	+/-2000	U	1000	2000	P	12/26/2024	12:15	LB134090
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	12:15	LB134090
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	12:15	LB134090
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	12:15	LB134090
CCB04	Aluminum	100	+/-100	U	80.0	100	P	12/26/2024	13:06	LB134090
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/26/2024	13:06	LB134090
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	13:06	LB134090
	Barium	100	+/-100	U	25.0	100	P	12/26/2024	13:06	LB134090
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	13:06	LB134090
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	13:06	LB134090
	Calcium	2000	+/-2000	U	500	2000	P	12/26/2024	13:06	LB134090
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/26/2024	13:06	LB134090
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/26/2024	13:06	LB134090
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	13:06	LB134090
	Iron	100	+/-100	U	80.0	100	P	12/26/2024	13:06	LB134090
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/26/2024	13:06	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.		SDG No.: P5375								
Contract: TETR06	Lab Code: CHEM	Case No.: P5375			SAS No.: P5375					
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	500	2000	P	12/26/2024	13:06	LB134090
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/26/2024	13:06	LB134090
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	13:06	LB134090
	Potassium	2000	+/-2000	U	1600	2000	P	12/26/2024	13:06	LB134090
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	13:06	LB134090
	Silver	3.27	+/-10.0	J	5.00	10.0	P	12/26/2024	13:06	LB134090
	Sodium	2000	+/-2000	U	1000	2000	P	12/26/2024	13:06	LB134090
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	13:06	LB134090
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	13:06	LB134090
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	13:06	LB134090
CCB05	Aluminum	100	+/-100	U	80.0	100	P	12/26/2024	14:41	LB134090
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/26/2024	14:41	LB134090
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	14:41	LB134090
	Barium	100	+/-100	U	25.0	100	P	12/26/2024	14:41	LB134090
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	14:41	LB134090
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	14:41	LB134090
	Calcium	2000	+/-2000	U	500	2000	P	12/26/2024	14:41	LB134090
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/26/2024	14:41	LB134090
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/26/2024	14:41	LB134090
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	14:41	LB134090
	Iron	100	+/-100	U	80.0	100	P	12/26/2024	14:41	LB134090
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/26/2024	14:41	LB134090
	Magnesium	2000	+/-2000	U	500	2000	P	12/26/2024	14:41	LB134090
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/26/2024	14:41	LB134090
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	14:41	LB134090
	Potassium	2000	+/-2000	U	1600	2000	P	12/26/2024	14:41	LB134090
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	14:41	LB134090
	Silver	4.21	+/-10.0	J	5.00	10.0	P	12/26/2024	14:41	LB134090
	Sodium	2000	+/-2000	U	1000	2000	P	12/26/2024	14:41	LB134090
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	14:41	LB134090
CCB06	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	14:41	LB134090
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	14:41	LB134090
	Aluminum	100	+/-100	U	80.0	100	P	12/26/2024	15:30	LB134090
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/26/2024	15:30	LB134090
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	15:30	LB134090
	Barium	100	+/-100	U	25.0	100	P	12/26/2024	15:30	LB134090
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	15:30	LB134090
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/26/2024	15:30	LB134090
	Calcium	2000	+/-2000	U	500	2000	P	12/26/2024	15:30	LB134090

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/26/2024	15:30	LB134090
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/26/2024	15:30	LB134090
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	15:30	LB134090
	Iron	100	+/-100	U	80.0	100	P	12/26/2024	15:30	LB134090
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/26/2024	15:30	LB134090
	Magnesium	2000	+/-2000	U	500	2000	P	12/26/2024	15:30	LB134090
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/26/2024	15:30	LB134090
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	15:30	LB134090
	Potassium	2000	+/-2000	U	1600	2000	P	12/26/2024	15:30	LB134090
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/26/2024	15:30	LB134090
	Silver	4.11	+/-10.0	J	5.00	10.0	P	12/26/2024	15:30	LB134090
	Sodium	2000	+/-2000	U	1000	2000	P	12/26/2024	15:30	LB134090
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	15:30	LB134090
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/26/2024	15:30	LB134090
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/26/2024	15:30	LB134090

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	80.0	100	P	12/27/2024	14:59	LB134113
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/27/2024	14:59	LB134113
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	14:59	LB134113
	Barium	100	+/-100	U	25.0	100	P	12/27/2024	14:59	LB134113
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/27/2024	14:59	LB134113
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/27/2024	14:59	LB134113
	Calcium	2000	+/-2000	U	500	2000	P	12/27/2024	14:59	LB134113
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/27/2024	14:59	LB134113
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/27/2024	14:59	LB134113
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	14:59	LB134113
	Iron	100	+/-100	U	80.0	100	P	12/27/2024	14:59	LB134113
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/27/2024	14:59	LB134113
	Magnesium	2000	+/-2000	U	500	2000	P	12/27/2024	14:59	LB134113
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/27/2024	14:59	LB134113
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/27/2024	14:59	LB134113
	Potassium	2000	+/-2000	U	1600	2000	P	12/27/2024	14:59	LB134113
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	14:59	LB134113
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/27/2024	14:59	LB134113
	Sodium	2000	+/-2000	U	1000	2000	P	12/27/2024	14:59	LB134113
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/27/2024	14:59	LB134113
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/27/2024	14:59	LB134113
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/27/2024	14:59	LB134113

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	80.0	100	P	12/27/2024	15:40	LB134113
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/27/2024	15:40	LB134113
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	15:40	LB134113
	Barium	100	+/-100	U	25.0	100	P	12/27/2024	15:40	LB134113
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/27/2024	15:40	LB134113
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/27/2024	15:40	LB134113
	Calcium	2000	+/-2000	U	500	2000	P	12/27/2024	15:40	LB134113
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/27/2024	15:40	LB134113
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/27/2024	15:40	LB134113
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	15:40	LB134113
	Iron	100	+/-100	U	80.0	100	P	12/27/2024	15:40	LB134113
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/27/2024	15:40	LB134113
	Magnesium	2000	+/-2000	U	500	2000	P	12/27/2024	15:40	LB134113
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/27/2024	15:40	LB134113
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/27/2024	15:40	LB134113
	Potassium	2000	+/-2000	U	1600	2000	P	12/27/2024	15:40	LB134113
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	15:40	LB134113
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/27/2024	15:40	LB134113
	Sodium	2000	+/-2000	U	1000	2000	P	12/27/2024	15:40	LB134113
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/27/2024	15:40	LB134113
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/27/2024	15:40	LB134113
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/27/2024	15:40	LB134113
CCB02	Aluminum	100	+/-100	U	80.0	100	P	12/27/2024	16:37	LB134113
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/27/2024	16:37	LB134113
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	16:37	LB134113
	Barium	100	+/-100	U	25.0	100	P	12/27/2024	16:37	LB134113
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/27/2024	16:37	LB134113
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/27/2024	16:37	LB134113
	Calcium	2000	+/-2000	U	500	2000	P	12/27/2024	16:37	LB134113
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/27/2024	16:37	LB134113
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/27/2024	16:37	LB134113
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	16:37	LB134113
	Iron	100	+/-100	U	80.0	100	P	12/27/2024	16:37	LB134113
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/27/2024	16:37	LB134113
	Magnesium	2000	+/-2000	U	500	2000	P	12/27/2024	16:37	LB134113
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/27/2024	16:37	LB134113
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/27/2024	16:37	LB134113
	Potassium	2000	+/-2000	U	1600	2000	P	12/27/2024	16:37	LB134113
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	16:37	LB134113

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. SDG No.: P5375
Contract: TETR06 Lab Code: CHEM Case No.: P5375 SAS No.: P5375

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/27/2024	16:37	LB134113
	Sodium	2000	+/-2000	U	1000	2000	P	12/27/2024	16:37	LB134113
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/27/2024	16:37	LB134113
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/27/2024	16:37	LB134113
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/27/2024	16:37	LB134113
CCB03	Aluminum	100	+/-100	U	80.0	100	P	12/27/2024	17:17	LB134113
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	12/27/2024	17:17	LB134113
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	17:17	LB134113
	Barium	100	+/-100	U	25.0	100	P	12/27/2024	17:17	LB134113
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	12/27/2024	17:17	LB134113
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	12/27/2024	17:17	LB134113
	Calcium	2000	+/-2000	U	500	2000	P	12/27/2024	17:17	LB134113
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	12/27/2024	17:17	LB134113
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	12/27/2024	17:17	LB134113
	Copper	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	17:17	LB134113
	Iron	100	+/-100	U	80.0	100	P	12/27/2024	17:17	LB134113
	Lead	12.0	+/-12.0	U	9.60	12.0	P	12/27/2024	17:17	LB134113
	Magnesium	2000	+/-2000	U	500	2000	P	12/27/2024	17:17	LB134113
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	12/27/2024	17:17	LB134113
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	12/27/2024	17:17	LB134113
	Potassium	2000	+/-2000	U	1600	2000	P	12/27/2024	17:17	LB134113
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	12/27/2024	17:17	LB134113
	Silver	10.0	+/-10.0	U	5.00	10.0	P	12/27/2024	17:17	LB134113
	Sodium	2000	+/-2000	U	1000	2000	P	12/27/2024	17:17	LB134113
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	12/27/2024	17:17	LB134113
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	12/27/2024	17:17	LB134113
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	12/27/2024	17:17	LB134113

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: P5375

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165856BL		WATER		Batch Number:		PB165856		Prep Date:	12/26/2024	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	12/26/2024	11:14	LB134084

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: P5375

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB165832BL	WATER			Batch Number:		PB165832		Prep Date:	12/23/2024	
	Aluminum	50.0	<50.0	U	40.0	50.0	P	12/27/2024	16:20	LB134113
	Antimony	25.0	<25.0	U	6.25	25.0	P	12/27/2024	16:20	LB134113
	Arsenic	10.0	<10.0	U	8.00	10.0	P	12/27/2024	16:20	LB134113
	Barium	50.0	<50.0	U	12.5	50.0	P	12/27/2024	16:20	LB134113
	Beryllium	3.00	<3.00	U	0.75	3.00	P	12/27/2024	16:20	LB134113
	Cadmium	3.00	<3.00	U	0.75	3.00	P	12/27/2024	16:20	LB134113
	Calcium	1000	<1000	U	250	1000	P	12/27/2024	16:20	LB134113
	Chromium	5.00	<5.00	U	2.50	5.00	P	12/27/2024	16:20	LB134113
	Cobalt	15.0	<15.0	U	3.75	15.0	P	12/27/2024	16:20	LB134113
	Copper	10.0	<10.0	U	8.00	10.0	P	12/27/2024	16:20	LB134113
	Iron	50.0	<50.0	U	40.0	50.0	P	12/27/2024	16:20	LB134113
	Lead	6.00	<6.00	U	4.80	6.00	P	12/27/2024	16:20	LB134113
	Magnesium	1000	<1000	U	250	1000	P	12/27/2024	16:20	LB134113
	Manganese	10.0	<10.0	U	2.50	10.0	P	12/27/2024	16:20	LB134113
	Nickel	20.0	<20.0	U	5.00	20.0	P	12/27/2024	16:20	LB134113
	Potassium	1000	<1000	U	800	1000	P	12/27/2024	16:20	LB134113
	Selenium	10.0	<10.0	U	8.00	10.0	P	12/27/2024	16:20	LB134113
	Silver	5.00	<5.00	U	2.50	5.00	P	12/27/2024	16:20	LB134113
	Sodium	1000	<1000	U	500	1000	P	12/27/2024	16:20	LB134113
	Thallium	20.0	<20.0	U	10.0	20.0	P	12/27/2024	16:20	LB134113
	Vanadium	20.0	<20.0	U	10.0	20.0	P	12/27/2024	16:20	LB134113
	Zinc	20.0	<20.0	U	5.00	20.0	P	12/27/2024	16:20	LB134113

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>Tetra Tech NUS, Inc.</u>	SDG No.: <u>P5375</u>	
Contract: <u>TETR06</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P5375</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>	SAS No.: <u>P5375</u>

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	241000	255000	94	216000	294000	12/26/2024	10:18	LB134090
	Antimony	-3.07			-50	50	12/26/2024	10:18	LB134090
	Arsenic	3.44			-20	20	12/26/2024	10:18	LB134090
	Barium	-0.67	6.0	11	-94	106	12/26/2024	10:18	LB134090
	Beryllium	1.37			-6	6	12/26/2024	10:18	LB134090
	Cadmium	2.60	1.0	260	-5	7	12/26/2024	10:18	LB134090
	Calcium	225000	245000	92	208000	282000	12/26/2024	10:18	LB134090
	Chromium	57.4	52.0	110	42	62	12/26/2024	10:18	LB134090
	Cobalt	1.85			-30	30	12/26/2024	10:18	LB134090
	Copper	21.7	2.0	1085	-18	22	12/26/2024	10:18	LB134090
	Iron	99000	101000	98	85600	116500	12/26/2024	10:18	LB134090
	Lead	7.00			-12	12	12/26/2024	10:18	LB134090
	Magnesium	236000	255000	92	216000	294000	12/26/2024	10:18	LB134090
	Manganese	3.73	7.0	53	-13	27	12/26/2024	10:18	LB134090
	Nickel	3.05	2.0	152	-38	42	12/26/2024	10:18	LB134090
	Potassium	173			0	0	12/26/2024	10:18	LB134090
	Selenium	-14.9			-20	20	12/26/2024	10:18	LB134090
	Silver	-1.78			-10	10	12/26/2024	10:18	LB134090
	Sodium	53.6			0	0	12/26/2024	10:18	LB134090
	Thallium	13.4			-40	40	12/26/2024	10:18	LB134090
	Vanadium	7.29			-40	40	12/26/2024	10:18	LB134090
	Zinc	3.67			-40	40	12/26/2024	10:18	LB134090
ICSAB01	Aluminum	240000	247000	97	209000	285000	12/26/2024	10:23	LB134090
	Antimony	646	618	104	525	711	12/26/2024	10:23	LB134090
	Arsenic	112	104	108	88.4	120	12/26/2024	10:23	LB134090
	Barium	463	537	86	437	637	12/26/2024	10:23	LB134090
	Beryllium	471	495	95	420	570	12/26/2024	10:23	LB134090
	Cadmium	957	972	98	826	1120	12/26/2024	10:23	LB134090
	Calcium	220000	235000	94	199000	271000	12/26/2024	10:23	LB134090
	Chromium	567	542	105	460	624	12/26/2024	10:23	LB134090
	Cobalt	496	476	104	404	548	12/26/2024	10:23	LB134090
	Copper	505	511	99	434	588	12/26/2024	10:23	LB134090
	Iron	98200	99300	99	84400	114500	12/26/2024	10:23	LB134090
	Lead	54.7	49.0	112	37	61	12/26/2024	10:23	LB134090
	Magnesium	230000	248000	93	210000	286000	12/26/2024	10:23	LB134090
	Manganese	459	507	90	430	584	12/26/2024	10:23	LB134090
	Nickel	972	954	102	810	1100	12/26/2024	10:23	LB134090
	Potassium	137			0	0	12/26/2024	10:23	LB134090
	Selenium	33.3	46.0	72	26	66	12/26/2024	10:23	LB134090
	Silver	185	201	92	170	232	12/26/2024	10:23	LB134090
	Sodium	53.7			0	0	12/26/2024	10:23	LB134090
	Thallium	97.8	108	91	68	148	12/26/2024	10:23	LB134090

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375
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	470	491	96	417	565	12/26/2024	10:23	LB134090
	Zinc	1080	952	113	809	1095	12/26/2024	10:23	LB134090
ICSA01	Aluminum	241000	255000	94	216000	294000	12/27/2024	15:16	LB134113
	Antimony	-2.30			-50	50	12/27/2024	15:16	LB134113
	Arsenic	-1.28			-20	20	12/27/2024	15:16	LB134113
	Barium	-0.72	6.0	12	-94	106	12/27/2024	15:16	LB134113
	Beryllium	1.21			-6	6	12/27/2024	15:16	LB134113
	Cadmium	2.31	1.0	231	-5	7	12/27/2024	15:16	LB134113
	Calcium	220000	245000	90	208000	282000	12/27/2024	15:16	LB134113
	Chromium	55.9	52.0	108	42	62	12/27/2024	15:16	LB134113
	Cobalt	1.79			-30	30	12/27/2024	15:16	LB134113
	Copper	5.99	2.0	300	-18	22	12/27/2024	15:16	LB134113
	Iron	100000	101000	99	85600	116500	12/27/2024	15:16	LB134113
	Lead	6.43			-12	12	12/27/2024	15:16	LB134113
	Magnesium	238000	255000	93	216000	294000	12/27/2024	15:16	LB134113
	Manganese	5.06	7.0	72	-13	27	12/27/2024	15:16	LB134113
	Nickel	2.36	2.0	118	-38	42	12/27/2024	15:16	LB134113
	Potassium	143			0	0	12/27/2024	15:16	LB134113
	Selenium	-13.8			-20	20	12/27/2024	15:16	LB134113
	Silver	-1.81			-10	10	12/27/2024	15:16	LB134113
	Sodium	69.9			0	0	12/27/2024	15:16	LB134113
	Thallium	10.4			-40	40	12/27/2024	15:16	LB134113
	Vanadium	4.89			-40	40	12/27/2024	15:16	LB134113
	Zinc	-10.6			-40	40	12/27/2024	15:16	LB134113
ICSAB01	Aluminum	246000	247000	100	209000	285000	12/27/2024	15:20	LB134113
	Antimony	691	618	112	525	711	12/27/2024	15:20	LB134113
	Arsenic	102	104	98	88.4	120	12/27/2024	15:20	LB134113
	Barium	515	537	96	437	637	12/27/2024	15:20	LB134113
	Beryllium	494	495	100	420	570	12/27/2024	15:20	LB134113
	Cadmium	1080	972	111	826	1120	12/27/2024	15:20	LB134113
	Calcium	224000	235000	95	199000	271000	12/27/2024	15:20	LB134113
	Chromium	615	542	114	460	624	12/27/2024	15:20	LB134113
	Cobalt	547	476	115	404	548	12/27/2024	15:20	LB134113
	Copper	543	511	106	434	588	12/27/2024	15:20	LB134113
	Iron	103000	99300	104	84400	114500	12/27/2024	15:20	LB134113
	Lead	60.0	49.0	122	37	61	12/27/2024	15:20	LB134113
	Magnesium	243000	248000	98	210000	286000	12/27/2024	15:20	LB134113
	Manganese	492	507	97	430	584	12/27/2024	15:20	LB134113
	Nickel	1070	954	112	810	1100	12/27/2024	15:20	LB134113
	Potassium	126			0	0	12/27/2024	15:20	LB134113
	Selenium	39.9	46.0	87	26	66	12/27/2024	15:20	LB134113
	Silver	194	201	96	170	232	12/27/2024	15:20	LB134113

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>Tetra Tech NUS, Inc.</u>	SDG No.: <u>P5375</u>
Contract: <u>TETR06</u>	Lab Code: <u>CHEM</u>
ICS Source: <u>EPA</u>	Case No.: <u>P5375</u>
	SAS No.: <u>P5375</u>
	Instrument ID: <u>P4</u>

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	78.3			0	0	12/27/2024	15:20	LB134113
	Thallium	112	108	104	68	148	12/27/2024	15:20	LB134113
	Vanadium	505	491	103	417	565	12/27/2024	15:20	LB134113
	Zinc	905	952	95	809	1095	12/27/2024	15:20	LB134113



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>Tetra Tech NUS, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P5375</u>
contract:	<u>TETR06</u>	lab code:	<u>CHEM</u>	case no.:	<u>P5375</u>
matrix:	<u>Water</u>	sample id:	<u>P5375-01</u>	client id:	<u>TT-RW10A-IDWGW-20241219MS</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P5375-01MS</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	86 - 115	2490		1470		1000	101		P
Antimony	ug/L	88 - 113	426		25.0	U	400	106		P
Arsenic	ug/L	87 - 113	422		10.0	U	400	106		P
Barium	ug/L	88 - 113	133		14.4	J	100	119	N	P
Beryllium	ug/L	89 - 112	77.7		3.00	U	100	78	N	P
Cadmium	ug/L	88 - 113	81.5		0.13	J	100	81	N	P
Calcium	ug/L	87 - 113	7800		7580		500	43		P
Chromium	ug/L	90 - 113	188		27.3		200	80	N	P
Cobalt	ug/L	89 - 114	110		19.7		100	90		P
Copper	ug/L	86 - 114	187		39.5		150	99		P
Iron	ug/L	87 - 115	3700		2450		1500	83	N	P
Lead	ug/L	86 - 113	432		6.00	U	500	86		P
Magnesium	ug/L	85 - 113	4280		3480		1000	80	N	P
Manganese	ug/L	90 - 114	188		109		100	79	N	P
Mercury	ug/L	82 - 119	3.77		0.20	U	4.0	94		CV
Nickel	ug/L	88 - 113	250		37.5		250	85	N	P
Potassium	ug/L	86 - 114	8490		2940		5000	111		P
Selenium	ug/L	83 - 114	1020		10.0	U	1000	102		P
Silver	ug/L	84 - 115	36.6		1.87	J	37.5	93		P
Sodium	ug/L	87 - 115	52300		50300		1500	130		P
Thallium	ug/L	85 - 114	950		20.0	U	1000	95		P
Vanadium	ug/L	90 - 111	136		20.0	U	150	91		P
Zinc	ug/L	87 - 115	179		79.1		100	100		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Tetra Tech NUS, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P5375</u>
contract:	<u>TETR06</u>	lab code:	<u>CHEM</u>	case no.:	<u>P5375</u>
matrix:	<u>Water</u>	sample id:	<u>P5375-01</u>	client id:	<u>TT-RW10A-IDWGW-20241219MSD</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P5375-01MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	86 - 115	2480		1470		1000	101		P
Antimony	ug/L	88 - 113	429		25.0	U	400	107		P
Arsenic	ug/L	87 - 113	424		10.0	U	400	106		P
Barium	ug/L	88 - 113	131		14.4	J	100	117	N	P
Beryllium	ug/L	89 - 112	76.9		3.00	U	100	77	N	P
Cadmium	ug/L	88 - 113	81.5		0.13	J	100	81	N	P
Calcium	ug/L	87 - 113	7710		7580		500	26		P
Chromium	ug/L	90 - 113	188		27.3		200	80	N	P
Cobalt	ug/L	89 - 114	110		19.7		100	90		P
Copper	ug/L	86 - 114	188		39.5		150	99		P
Iron	ug/L	87 - 115	3700		2450		1500	83	N	P
Lead	ug/L	86 - 113	432		6.00	U	500	86		P
Magnesium	ug/L	85 - 113	4250		3480		1000	76	N	P
Manganese	ug/L	90 - 114	187		109		100	78	N	P
Mercury	ug/L	82 - 119	3.79		0.20	U	4.0	95		CV
Nickel	ug/L	88 - 113	250		37.5		250	85	N	P
Potassium	ug/L	86 - 114	8440		2940		5000	110		P
Selenium	ug/L	83 - 114	1030		10.0	U	1000	103		P
Silver	ug/L	84 - 115	36.3		1.87	J	37.5	92		P
Sodium	ug/L	87 - 115	52500		50300		1500	143		P
Thallium	ug/L	85 - 114	928		20.0	U	1000	93		P
Vanadium	ug/L	90 - 111	135		20.0	U	150	90		P
Zinc	ug/L	87 - 115	179		79.1		100	100		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: P5375

Contract: TETR06

Lab Code: CHEM

Case No.: P5375

SAS No.: P5375

Matrix: Water

Level: LOW

Client ID: TT-RW10A-IDWGW-20241219A

Sample ID: P5375-01

Spiked ID: P5375-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	88 - 113	131		14.4	J	100	116		P
Beryllium	ug/L	89 - 112	77.2		3.00	U	100	77		P
Cadmium	ug/L	88 - 113	81.5		0.13	J	100	81		P
Chromium	ug/L	90 - 113	188		27.3		200	80		P
Iron	ug/L	87 - 115	3690		2450		1500	83		P
Magnesium	ug/L	85 - 113	4250		3480		1000	77		P
Manganese	ug/L	90 - 114	187		109		100	77		P
Nickel	ug/L	88 - 113	250		37.5		250	85		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P5375
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375
Matrix: Water **Sample ID:** P5375-01 **Client ID:** TT-RW10A-IDWGW-20241219DUP
Percent Solids for Sample: NA **Duplicate ID** P5375-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1470		1530		4		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	14.4	J	14.5	J	1		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	0.13	J	0.097	J	31		P
Calcium	ug/L	20	7580		7550		0		P
Chromium	ug/L	20	27.3		27.2		0		P
Cobalt	ug/L	20	19.7		19.7		0		P
Copper	ug/L	20	39.5		39.7		1		P
Iron	ug/L	20	2450		2440		0		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	3480		3450		1		P
Manganese	ug/L	20	109		109		0		P
Mercury	ug/L	20	0.20	U	0.11	J	200.0		CV
Nickel	ug/L	20	37.5		37.7		1		P
Potassium	ug/L	20	2940		3010		2		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	1.87	J	1.86	J	1		P
Sodium	ug/L	20	50300		51700		3		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	79.1		78.8		0		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>P5375</u>		
Contract:	<u>TETR06</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P5375</u>	SAS No.:	<u>P5375</u>
Matrix:	<u>Water</u>	Sample ID:	<u>P5375-01MS</u>	Client ID:	<u>TT-RW10A-IDWGW-20241219MSD</u>		
Percent Solids for Sample:	<u>NA</u>	Duplicate ID	<u>P5375-01MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>		

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	2490		2480		0		P
Antimony	ug/L	20	426		429		1		P
Arsenic	ug/L	20	422		424		0		P
Barium	ug/L	20	133		131		2		P
Beryllium	ug/L	20	77.7		76.9		1		P
Cadmium	ug/L	20	81.5		81.5		0		P
Calcium	ug/L	20	7800		7710		1		P
Chromium	ug/L	20	188		188		0		P
Cobalt	ug/L	20	110		110		0		P
Copper	ug/L	20	187		188		1		P
Iron	ug/L	20	3700		3700		0		P
Lead	ug/L	20	432		432		0		P
Magnesium	ug/L	20	4280		4250		1		P
Manganese	ug/L	20	188		187		1		P
Mercury	ug/L	20	3.77		3.79		1		CV
Nickel	ug/L	20	250		250		0		P
Potassium	ug/L	20	8490		8440		1		P
Selenium	ug/L	20	1020		1030		1		P
Silver	ug/L	20	36.6		36.3		1		P
Sodium	ug/L	20	52300		52500		0		P
Thallium	ug/L	20	950		928		2		P
Vanadium	ug/L	20	136		135		1		P
Zinc	ug/L	20	179		179		0		P

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165832BS							
Aluminum	ug/L	1000	939		94	86 - 115	P
Antimony	ug/L	400	406		102	88 - 113	P
Arsenic	ug/L	400	414		104	87 - 113	P
Barium	ug/L	100	89.1		89	88 - 113	P
Beryllium	ug/L	100	91.8		92	89 - 112	P
Cadmium	ug/L	100	95.6		96	88 - 113	P
Calcium	ug/L	500	478	J	96	87 - 113	P
Chromium	ug/L	200	202		101	90 - 113	P
Cobalt	ug/L	100	98.0		98	89 - 114	P
Copper	ug/L	150	160		107	86 - 114	P
Iron	ug/L	1500	1460		97	87 - 115	P
Lead	ug/L	500	487		97	86 - 113	P
Magnesium	ug/L	1000	905	J	90	85 - 113	P
Manganese	ug/L	100	91.0		91	90 - 114	P
Nickel	ug/L	250	245		98	88 - 113	P
Potassium	ug/L	5000	4860		97	86 - 114	P
Selenium	ug/L	1000	1020		102	83 - 114	P
Silver	ug/L	37.5	38.4		102	84 - 115	P
Sodium	ug/L	1500	1420		95	87 - 115	P
Thallium	ug/L	1000	1020		102	85 - 114	P
Vanadium	ug/L	150	140		93	90 - 111	P
Zinc	ug/L	100	94.8		95	87 - 115	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P5375
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P5375 **SAS No.:** P5375

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165856BS Mercury	ug/L	4.0	3.78		94	82 - 119	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TT-RW10A-IDWGW-20241219L

Lab Name: Chemtech Consulting Group **Contract:** TETR06
Lab Code: CHEM **Lb No.:** lb134090 **Lab Sample ID :** P5375-01L **SDG No.:** P5375
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum		1470		1530	4		P
Antimony		25.0 U		125 U			P
Arsenic		10.0 U		50.0 U			P
Barium		14.4 J		250 U	100.0		P
Beryllium		3.00 U		15.0 U			P
Cadmium		0.13 J		15.0 U	100.0		P
Calcium		7580		7800	3		P
Chromium		27.3		27.5	1		P
Cobalt		19.7		20.3 J	3		P
Copper		39.5		42.6 J	8		P
Iron		2450		2440	0		P
Lead		6.00 U		30.0 U			P
Magnesium		3480		3570 J	3		P
Manganese		109		112	2		P
Mercury		0.20 U		0.59 J	100.0		CV
Nickel		37.5		38.7 J	3		P
Potassium		2940		5000 U	100.0		P
Selenium		10.0 U		50.0 U			P
Silver		1.87 J		9.74 J	422		P
Sodium		50300		51300	2		P
Thallium		20.0 U		100 U			P
Vanadium		20.0 U		100 U			P
Zinc		79.1		77.9 J	1		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: P5375

Contract: TETR06

Lab Code: CHEM

Case No.: P5375

SAS No.: P5375

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: P5375

Contract: TETR06

Lab Code: CHEM

Case No.: P5375

SAS No.: P5375

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: P5375

Contract: TETR06

Lab Code: CHEM

Case No.: P5375

SAS No.: P5375

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: P5375

Contract: TETR06

Lab Code: CHEM

Case No.: P5375

SAS No.: P5375

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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: P5375

Contract: TETR06

Lab Code: CHEM

Case No.: P5375

SAS No.: P5375

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

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: P5375

Contract: TETR06

Lab Code: CHEM

Method:

Case No.: P5375

SAS No.: P5375

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165832							
P5375-01	TT-RW10A-IDWGW-20241219	SAM	WATER	12/23/2024	50.0	25.0	
P5375-01DUP	TT-RW10A-IDWGW-20241219DUP	DUP	WATER	12/23/2024	50.0	25.0	
P5375-01MS	TT-RW10A-IDWGW-20241219MS	MS	WATER	12/23/2024	50.0	25.0	
P5375-01MSD	TT-RW10A-IDWGW-20241219MSD	MSD	WATER	12/23/2024	50.0	25.0	
PB165832BL	PB165832BL	MB	WATER	12/23/2024	50.0	25.0	
PB165832BS	PB165832BS	LCS	WATER	12/23/2024	50.0	25.0	

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client:

Tetra Tech NUS, Inc.

Contract:

TETR06

Lab Code:

CHEM

SDG No.:

P5375

Method:

Case No.:

P5375

SAS No.:

P5375

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165856							
P5375-01	TT-RW10A-IDWGW-20241219	SAM	WATER	12/26/2024	30.0	30.0	
P5375-01DUP	TT-RW10A-IDWGW-20241219DUP	DUP	WATER	12/26/2024	30.0	30.0	
P5375-01MS	TT-RW10A-IDWGW-20241219MS	MS	WATER	12/26/2024	30.0	30.0	
P5375-01MSD	TT-RW10A-IDWGW-20241219MSD	MSD	WATER	12/26/2024	30.0	30.0	
PB165856BL	PB165856BL	MB	WATER	12/26/2024	30.0	30.0	
PB165856BS	PB165856BS	LCS	WATER	12/26/2024	30.0	30.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Tetra Tech NUS, Inc.

Contract: TETR06

Lab code: CHEM **Case no.:** P5375 **Sas no.:** P5375

Sdg no.: P5375

Instrument id number: **Method:**

Run number: LB134084

Start date: 12/26/2024 **End date:** 12/26/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1038	HG
S0.2	S0.2	1	1040	HG
S2.5	S2.5	1	1043	HG
S5	S5	1	1045	HG
S7.5	S7.5	1	1047	HG
S10	S10	1	1049	HG
ICV30	ICV30	1	1052	HG
ICB30	ICB30	1	1055	HG
CCV64	CCV64	1	1057	HG
CCB64	CCB64	1	1059	HG
CRA	CRA	1	1107	HG
PB165856BL	PB165856BL	1	1114	HG
PB165856BS	PB165856BS	1	1119	HG
P5375-01	TT-RW10A-IDWGW-20241219	1	1121	HG
P5375-01DUP	TT-RW10A-IDWGW-20241219	1	1123	HG
P5375-01MS	TT-RW10A-IDWGW-20241219	1	1128	HG
P5375-01MSD	TT-RW10A-IDWGW-20241219	1	1131	HG
CCV65	CCV65	1	1133	HG
CCB65	CCB65	1	1135	HG
P5375-01L	TT-RW10A-IDWGW-20241219	5	1137	HG
CCV66	CCV66	1	1145	HG
CCB66	CCB66	1	1147	HG

A

B

C

D

E

F

G

H

metals
- 14 -
ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** P5375 **Sas no.:** P5375 **Sdg no.:** P5375

Instrument id number: **Method:** **Run number:** LB134090

Start date: 12/26/2024 **End date:** 12/26/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0936	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	0940	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	0944	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	0948	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	0953	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	0957	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	1001	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	1005	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	1010	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	1014	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	1018	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	1023	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	1032	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	1038	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	1124	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	1130	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	1210	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	1215	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	1302	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	1306	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	1437	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	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5375-01	TT-RW10A-IDWGW-20241219	1	1446	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5375-01DUP	TT-RW10A-IDWGW-20241219	1	1450	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5375-01L	TT-RW10A-IDWGW-20241219	5	1454	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5375-01MS	TT-RW10A-IDWGW-20241219	1	1458	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5375-01MSD	TT-RW10A-IDWGW-20241219	1	1502	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5375-01A	TT-RW10A-IDWGW-20241219	1	1506	Ba,Be,Cd,Cr,Fe,Mg,Mn,Ni
CCV06	CCV06	1	1524	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	1530	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** P5375 **Sas no.:** P5375 **Sdg no.:** P5375

Instrument id number: **Method:** **Run number:** LB134113

Start date: 12/27/2024 **End date:** 12/27/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1242	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	1247	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	1251	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	1255	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	1259	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	1304	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	1354	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	1408	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	1459	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	1503	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	1516	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	1520	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	1534	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	1540	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165832BL	PB165832BL	1	1620	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165832BS	PB165832BS	1	1624	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	1632	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	1637	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	1659	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	1717	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: P5375																					
				COC Number:																					
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																					
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT PO#																					
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: GW IDW		ADDRESS:																					
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Dave Brayack		CITY: STATE: ZIP:																					
ATTENTION: Ernie Wu		E-MAIL: david.brayack@tetratech.com		ATTENTION: PHONE:																					
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4909 FAX: 757-461-4148																							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																					
FAX: _____ 24hr _____ DAYS* HARD COPY: _____ 24hr _____ DAYS* EDD _____ 24hr _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Metals</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> </table>		Total Metals											1	2	3	4	5	6	7	8	9
Total Metals																									
	1	2	3	4	5	6	7	8	9																
				PRESERVATIVES																					
CHEMTECH SAMPLE ID		PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX																					
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">SAMPLE TYPE</th> <th colspan="2">SAMPLE COLLECTION</th> <th rowspan="2"># of Bottles</th> </tr> <tr> <th>DATE</th> <th>TIME</th> </tr> <tr> <td>COMP</td> <td>GRAB</td> <td></td> <td></td> </tr> </table>		SAMPLE TYPE	SAMPLE COLLECTION		# of Bottles	DATE	TIME	COMP	GRAB												
SAMPLE TYPE	SAMPLE COLLECTION		# of Bottles																						
	DATE	TIME																							
COMP	GRAB																								
				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>B</th> <th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td></td> </tr> </table>		B										1	2	3	4	5	6	7	8	9	
B																									
1	2	3	4	5	6	7	8	9																	
				COMMENTS																					
				<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other																					
1.		TT-RW10A-IDWGW-20241219		AQ																					
2.																									
3.																									
4.																									
5.																									
6.																									
7.																									
8.																									
9.																									
10.																									
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																									
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY																					
1. <i>[Signature]</i>		12/20/2024		1. <i>[Signature]</i>																					
RELINQUISHED BY		DATE/TIME		RECEIVED BY																					
2. <i>[Signature]</i>		12/20/2024		2. <i>[Signature]</i>																					
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY																					
3. <i>[Signature]</i>		12/20/2024		3. <i>[Signature]</i>																					
Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>2.9°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid Comments: <u>Ice in Cooler?: yes</u> 24hr TAT - CTO-WE13 Drilling GW IDW Sampling - RW10A																									
SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight				Shipment Complete ☐ YES ☐ NO																					
Page <u>1</u> of <u>1</u> WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																									

Laboratory Certification

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