

LAB CHRONICLE

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

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

Hit Summary Sheet SW-846

SDG No.: P4549 **Order ID:** P4549
Client: Tetra Tech NUS, Inc. **Project ID:** CTO WE13

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

Hit Summary Sheet
SW-846

SDG No.: P4549

Order ID: P4549

Client: Tetra Tech NUS, Inc.

Project ID: CTO WE13

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



SAMPLE DATA

Report of Analysis

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

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

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

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 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

Report of Analysis

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

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

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

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 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.
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Report of Analysis

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

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

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

U = Not Detected
 LOQ = Limit of Quantitation
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METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

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

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

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P4549
Contract: TETR06 Lab Code: CHEM Case No.: P4549 SAS No.: P4549
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P4549
Contract: TETR06 Lab Code: CHEM Case No.: P4549 SAS No.: P4549
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

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

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

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P4549
 Contract: TETR06 Lab Code: CHEM Case No.: P4549 SAS No.: P4549
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P4549
 Contract: TETR06 Lab Code: CHEM Case No.: P4549 SAS No.: P4549
 Initial Calibration Source: EPA
 Continuing Calibration Source: Inorganic Ventures

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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P4549
Contract: TETR06 Lab Code: CHEM Case No.: P4549 SAS No.: P4549
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

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

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

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. SDG No.: P4549
Contract: TETR06 Lab Code: CHEM Case No.: P4549 SAS No.: P4549
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

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



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

Metals

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CRDL STANDARD FOR AA & ICP

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549
Initial Calibration Source: _____
Continuing Calibration Source: _____

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



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

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

Tetra Tech NUS, Inc.

SDG No.:

P4549

Contract:

TETR06

Lab Code:

CHEM

Case No.:

P4549

SAS No.:

P4549

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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.		SDG No.: P4549								
Contract: TETR06	Lab Code: CHEM	Case No.: P4549	SAS No.: P4549							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	13:39	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	13:39	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	13:39	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	13:39	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	13:39	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	13:39	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	13:39	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	13:39	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	13:39	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	13:39	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	13:39	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	13:39	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	13:39	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	13:39	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	13:39	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	13:39	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	13:39	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	13:39	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	13:39	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	13:39	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	13:39	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	13:39	LB133175
CCB02	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	14:30	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	14:30	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	14:30	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	14:30	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	14:30	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	14:30	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	14:30	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	14:30	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	14:30	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	14:30	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	14:30	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	14:30	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	14:30	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	14:30	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	14:30	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	14:30	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	14:30	LB133175

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.		SDG No.: P4549								
Contract: TETR06	Lab Code: CHEM	Case No.: P4549	SAS No.: P4549							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	14:30	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	14:30	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	14:30	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	14:30	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	14:30	LB133175
CCB03	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	15:20	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	15:20	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	15:20	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	15:20	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	15:20	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	15:20	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	15:20	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	15:20	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	15:20	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	15:20	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	15:20	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	15:20	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	15:20	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	15:20	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	15:20	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	15:20	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	15:20	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	15:20	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	15:20	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	15:20	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	15:20	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	15:20	LB133175
CCB04	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	16:10	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	16:10	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	16:10	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	16:10	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	16:10	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	16:10	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	16:10	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	16:10	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	16:10	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	16:10	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	16:10	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	16:10	LB133175

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Client: Tetra Tech NUS, Inc.

SDG No.: P4549

Contract: TETR06

Lab Code: CHEM

Case No.: P4549

SAS No.: P4549

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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.		SDG No.: P4549								
Contract: TETR06	Lab Code: CHEM	Case No.: P4549	SAS No.: P4549							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	17:54	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	17:54	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	17:54	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	17:54	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	17:54	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	17:54	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	17:54	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	17:54	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	17:54	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	17:54	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	17:54	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	17:54	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	17:54	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	17:54	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	17:54	LB133175
CCB07	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	18:47	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	18:47	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	18:47	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	18:47	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	18:47	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	18:47	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	18:47	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	18:47	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	18:47	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	18:47	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	18:47	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	18:47	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	18:47	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	18:47	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	18:47	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	18:47	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	18:47	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	18:47	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	18:47	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	18:47	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	18:47	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	18:47	LB133175
CCB08	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	19:37	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	19:37	LB133175

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.		SDG No.: P4549								
Contract: TETR06	Lab Code: CHEM	Case No.: P4549	SAS No.: P4549							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	19:37	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	19:37	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	19:37	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	19:37	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	19:37	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	19:37	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	19:37	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	19:37	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	19:37	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	19:37	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	19:37	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	19:37	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	19:37	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	19:37	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	19:37	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	19:37	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	19:37	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	19:37	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	19:37	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	19:37	LB133175
CCB09	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	20:26	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	20:26	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	20:26	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	20:26	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	20:26	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	20:26	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	20:26	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	20:26	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	20:26	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	20:26	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	20:26	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	20:26	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	20:26	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	20:26	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	20:26	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	20:26	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	20:26	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	20:26	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	20:26	LB133175

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.		SDG No.: P4549								
Contract: TETR06	Lab Code: CHEM	Case No.: P4549	SAS No.: P4549							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	20:26	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	20:26	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	20:26	LB133175
CCB10	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	21:25	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	21:25	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:25	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	21:25	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	21:25	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	21:25	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	21:25	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	21:25	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	21:25	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:25	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	21:25	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	21:25	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	21:25	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	21:25	LB133175
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	21:25	LB133175
	Potassium	2000	+/-2000	U	1600	2000	P	10/28/2024	21:25	LB133175
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:25	LB133175
	Silver	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	21:25	LB133175
	Sodium	2000	+/-2000	U	1000	2000	P	10/28/2024	21:25	LB133175
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	21:25	LB133175
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	10/28/2024	21:25	LB133175
	Zinc	40.0	+/-40.0	U	10.0	40.0	P	10/28/2024	21:25	LB133175
CCB11	Aluminum	100	+/-100	U	80.0	100	P	10/28/2024	21:43	LB133175
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	10/28/2024	21:43	LB133175
	Arsenic	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:43	LB133175
	Barium	100	+/-100	U	25.0	100	P	10/28/2024	21:43	LB133175
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	21:43	LB133175
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	10/28/2024	21:43	LB133175
	Calcium	2000	+/-2000	U	500	2000	P	10/28/2024	21:43	LB133175
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	10/28/2024	21:43	LB133175
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	10/28/2024	21:43	LB133175
	Copper	20.0	+/-20.0	U	16.0	20.0	P	10/28/2024	21:43	LB133175
	Iron	100	+/-100	U	80.0	100	P	10/28/2024	21:43	LB133175
	Lead	12.0	+/-12.0	U	9.60	12.0	P	10/28/2024	21:43	LB133175
	Magnesium	2000	+/-2000	U	500	2000	P	10/28/2024	21:43	LB133175
	Manganese	20.0	+/-20.0	U	5.00	20.0	P	10/28/2024	21:43	LB133175

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

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

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: P4549

Instrument: CV1

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

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: P4549

Instrument: P4

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

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549
ICS Source: EPA **Instrument ID:** P4

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

Metals
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INTERFERENCE CHECK SAMPLE

Client: <u>Tetra Tech NUS, Inc.</u>	SDG No.: <u>P4549</u>
Contract: <u>TETR06</u> Lab Code: <u>CHEM</u>	Case No.: <u>P4549</u> SAS No.: <u>P4549</u>
ICS Source: <u>EPA</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	Vanadium	463	491	94	417	565	10/28/2024	13:21	LB133175
	Zinc	1060	952	111	809	1095	10/28/2024	13:21	LB133175



METAL QC DATA



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metals
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MATRIX SPIKE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	P4549		
contract:	TETR06	lab code:	CHEM	case no.:	P4549	sas no.:	P4549
matrix:	Water	sample id:	P4549-02	client id:	TT-067-IDWGW-20241024MS		
Percent Solids for Sample:	NA	Spiked ID:	P4549-02MS	Percent Solids for Spike Sample:	NA		

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



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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:

Tetra Tech NUS, Inc.

level:

low

sdg no.:

P4549

contract:

TETR06

lab code:

CHEM

case no.:

P4549

sas no.:

P4549

matrix:

Water

sample id:

P4549-02

client id:

TT-067-IDWGW-20241024MSD

Percent Solids for Sample:

NA

Spiked ID:

P4549-02MSD

Percent Solids for Spike Sample:

NA

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



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metals
- 5a -
MATRIX SPIKE SUMMARY

client:	Tetra Tech NUS, Inc.	level:	low	sdg no.:	P4549		
contract:	TETR06	lab code:	CHEM	case no.:	P4549	sas no.:	P4549
matrix:	Water	sample id:	P4549-04	client id:	TT-069-IDWGW-20241024MS		
Percent Solids for Sample:	NA	Spiked ID:	P4549-04MS	Percent Solids for Spike Sample:	NA		

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

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Tetra Tech NUS, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P4549</u>		
contract:	<u>TETR06</u>	lab code:	<u>CHEM</u>	case no.:	<u>P4549</u>	sas no.:	<u>P4549</u>
matrix:	<u>Water</u>	sample id:	<u>P4549-04</u>	client id:	<u>TT-069-IDWGW-20241024MSD</u>		
Percent Solids for Sample:	NA	Spiked ID:	<u>P4549-04MSD</u>	Percent Solids for Spike Sample:	NA		

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



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Metals
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POST DIGEST SPIKE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: P4549

Contract: TETR06

Lab Code: CHEM

Case No.: P4549

SAS No.: P4549

Matrix: Water

Level: LOW

Client ID: TT-069-IDWW-20241024A

Sample ID: P4549-04

Spiked ID: P4549-04A

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

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>P4549</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P4549</u>
Matrix:	<u>Water</u>	Sample ID:	<u>P4549-02</u>	Client ID:	<u>TT-067-IDWGW-20241024DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	P4549-02DUP	Percent Solids for Spike Sample:	NA

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

Metals

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DUPLICATE SAMPLE SUMMARY

Client:	<u>Tetra Tech NUS, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>P4549</u>
Contract:	<u>TETR06</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P4549</u>
Matrix:	<u>Water</u>	Sample ID:	<u>P4549-02MS</u>	Client ID:	<u>TT-067-IDWGW-20241024MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	P4549-02MSD	Percent Solids for Spike Sample:	NA

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

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549
Matrix: Water **Sample ID:** P4549-04 **Client ID:** TT-069-IDWGW-20241024DUP
Percent Solids for Sample: NA **Duplicate ID** P4549-04DUP **Percent Solids for Spike Sample:** NA

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

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **Level:** LOW **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549
Matrix: Water **Sample ID:** P4549-04MS **Client ID:** TT-069-IDWGW-20241024MSD
Percent Solids for Sample: NA **Duplicate ID** P4549-04MSD **Percent Solids for Spike Sample:** NA

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

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc. **SDG No.:** P4549
Contract: TETR06 **Lab Code:** CHEM **Case No.:** P4549 **SAS No.:** P4549

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

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Tetra Tech NUS, Inc.

SDG No.: P4549

Contract: TETR06

Lab Code: CHEM

Case No.: P4549

SAS No.: P4549

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

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TT-067-IDWGW-20241024L

Lab Name: Chemtech Consulting Group **Contract:** TETR06
Lab Code: CHEM **Lb No.:** lb133167 **Lab Sample ID :** P4549-02L **SDG No.:** P4549
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

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

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TT-069-IDWGW-20241024L

Lab Name: Chemtech Consulting Group **Contract:** TETR06
Lab Code: CHEM **Lb No.:** lb133175 **Lab Sample ID :** P4549-04L **SDG No.:** P4549
Matrix (soil/water): Water **Level (low/med):** LOW
Concentration Units: ug/L

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



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: P4549

Contract: TETR06

Lab Code: CHEM

Case No.: P4549

SAS No.: P4549

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: P4549

Contract: TETR06

Lab Code: CHEM

Case No.: P4549

SAS No.: P4549

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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.: P4549

Contract: TETR06

Lab Code: CHEM

Case No.: P4549

SAS No.: P4549

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: P4549

Contract: TETR06

Lab Code: CHEM

Case No.: P4549

SAS No.: P4549

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement 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

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ICP INTERELEMENT CORRECTION FACTORS

Client: Tetra Tech NUS, Inc.

SDG No.: P4549

Contract: TETR06

Lab Code: CHEM

Case No.: P4549

SAS No.: P4549

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METAL
PREPARATION &
ANALYICAL
SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client:

Tetra Tech NUS, Inc.

Contract:

TETR06

Lab Code:

CHEM

SDG No.:

P4549

Method:

Case No.:

P4549

SAS No.:

P4549

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

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SAMPLE PREPARATION SUMMARY

Client:

Tetra Tech NUS, Inc.

Contract:

TETR06

Lab Code:

CHEM

SDG No.:

P4549

Method:

Case No.:

P4549

SAS No.:

P4549

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

metals
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ANALYSIS RUN LOG

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

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

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

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

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

metals
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ANALYSIS RUN LOG

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

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

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

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

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

metals
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ANALYSIS RUN LOG

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

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

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

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

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