284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1422 **Order ID:** Q1422

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-154-SB01								
Q1422-01	B-154-SB01	SOIL	Aluminum	6540		2.37	4.92	mg/Kg
Q1422-01	B-154-SB01	SOIL	Arsenic	3.45		0.28	0.98	mg/Kg
Q1422-01	B-154-SB01	SOIL	Barium	52.8		0.63	4.92	mg/Kg
Q1422-01	B-154-SB01	SOIL	Beryllium	0.51		0.012	0.30	mg/Kg
Q1422-01	B-154-SB01	SOIL	Calcium	1300		2.75	98.4	mg/Kg
Q1422-01	B-154-SB01	SOIL	Chromium	11.5		0.053	0.49	mg/Kg
Q1422-01	B-154-SB01	SOIL	Cobalt	9.17		0.057	1.48	mg/Kg
Q1422-01	B-154-SB01	SOIL	Copper	34.9		0.46	0.98	mg/Kg
Q1422-01	B-154-SB01	SOIL	Iron	16800		2.65	4.92	mg/Kg
Q1422-01	B-154-SB01	SOIL	Lead	26.4		0.15	0.59	mg/Kg
Q1422-01	B-154-SB01	SOIL	Magnesium	3540		3.37	98.4	mg/Kg
Q1422-01	B-154-SB01	SOIL	Manganese	186		0.070	0.98	mg/Kg
Q1422-01	B-154-SB01	SOIL	Mercury	0.023		0.0070	0.016	mg/Kg
Q1422-01	B-154-SB01	SOIL	Nickel	17.1		0.089	1.97	mg/Kg
Q1422-01	B-154-SB01	SOIL	Potassium	1030		28.2	98.4	mg/Kg
Q1422-01	B-154-SB01	SOIL	Sodium	94.2	J	35.5	98.4	mg/Kg
Q1422-01	B-154-SB01	SOIL	Thallium	0.89	J	0.43	1.97	mg/Kg
Q1422-01	B-154-SB01	SOIL	Vanadium	16.3		0.27	1.97	mg/Kg
Q1422-01	B-154-SB01	SOIL	Zinc	39.7		0.11	1.97	mg/Kg
Client ID : B-154-SB02								
Q1422-02	B-154-SB02	SOIL	Aluminum	6540		2.44	5.07	mg/Kg
Q1422-02	B-154-SB02	SOIL	Arsenic	1.97		0.29	1.01	mg/Kg
Q1422-02	B-154-SB02	SOIL	Barium	40.7		0.65	5.07	mg/Kg
Q1422-02	B-154-SB02	SOIL	Beryllium	0.48		0.012	0.30	mg/Kg
Q1422-02	B-154-SB02	SOIL	Calcium	852		2.84	101	mg/Kg
Q1422-02	B-154-SB02	SOIL	Chromium	10.5		0.055	0.51	mg/Kg
Q1422-02	B-154-SB02	SOIL	Cobalt	6.40		0.059	1.52	mg/Kg
Q1422-02	B-154-SB02	SOIL	Copper	16.3		0.48	1.01	mg/Kg
Q1422-02	B-154-SB02	SOIL	Iron	12700		2.73	5.07	mg/Kg
Q1422-02	B-154-SB02	SOIL	Lead	8.93		0.15	0.61	mg/Kg
Q1422-02	B-154-SB02	SOIL	Magnesium	2070		3.48	101	mg/Kg
Q1422-02	B-154-SB02	SOIL	Manganese	148		0.072	1.01	mg/Kg
Q1422-02	B-154-SB02	SOIL	Nickel	10.9		0.091	2.03	mg/Kg
Q1422-02	B-154-SB02	SOIL	Potassium	571		29.1	101	mg/Kg
Q1422-02	B-154-SB02	SOIL	Sodium	60.6	J	36.6	101	mg/Kg
Q1422-02	B-154-SB02	SOIL	Vanadium	17.2		0.27	2.03	mg/Kg
Q1422-02	B-154-SB02	SOIL	Zinc	25.3		0.11	2.03	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1422 **Order ID:** Q1422

Client: Portal Partners Tri-Venture **Project ID:** Amtrak Sawtooth Bridges 2025

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6540		1	2.37	4.92	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-36-0	Antimony	0.15	UN	1	0.15	2.46	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-38-2	Arsenic	3.45		1	0.28	0.98	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-39-3	Barium	52.8		1	0.63	4.92	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-41-7	Beryllium	0.51		1	0.012	0.30	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-43-9	Cadmium	0.016	U	1	0.016	0.30	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-70-2	Calcium	1300		1	2.75	98.4	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-47-3	Chromium	11.5		1	0.053	0.49	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-48-4	Cobalt	9.17		1	0.057	1.48	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-50-8	Copper	34.9		1	0.46	0.98	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-89-6	Iron	16800		1	2.65	4.92	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-92-1	Lead	26.4		1	0.15	0.59	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-95-4	Magnesium	3540		1	3.37	98.4	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-96-5	Manganese	186		1	0.070	0.98	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7439-97-6	Mercury	0.023	N	1	0.0070	0.016	mg/Kg	02/25/25 13:30	02/26/25 12:28	SW7471B	
7440-02-0	Nickel	17.1		1	0.089	1.97	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-09-7	Potassium	1030		1	28.2	98.4	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7782-49-2	Selenium	0.33	UN	1	0.33	0.98	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-22-4	Silver	0.051	UN	1	0.051	0.49	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-23-5	Sodium	94.2	J	1	35.5	98.4	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-28-0	Thallium	0.89	J	1	0.43	1.97	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-62-2	Vanadium	16.3		1	0.27	1.97	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050
7440-66-6	Zinc	39.7		1	0.11	1.97	mg/Kg	02/25/25 10:05	03/10/25 15:18	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	6540		1	2.44	5.07	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-36-0	Antimony	0.15	UN	1	0.15	2.53	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-38-2	Arsenic	1.97		1	0.29	1.01	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-39-3	Barium	40.7		1	0.65	5.07	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-41-7	Beryllium	0.48		1	0.012	0.30	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-43-9	Cadmium	0.016	U	1	0.016	0.30	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-70-2	Calcium	852		1	2.84	101	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-47-3	Chromium	10.5		1	0.055	0.51	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-48-4	Cobalt	6.40		1	0.059	1.52	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-50-8	Copper	16.3		1	0.48	1.01	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-89-6	Iron	12700		1	2.73	5.07	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-92-1	Lead	8.93		1	0.15	0.61	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-95-4	Magnesium	2070		1	3.48	101	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-96-5	Manganese	148		1	0.072	1.01	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7439-97-6	Mercury	0.0070	UN	1	0.0070	0.015	mg/Kg	02/25/25 13:30	02/26/25 12:40	SW7471B	
7440-02-0	Nickel	10.9		1	0.091	2.03	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-09-7	Potassium	571		1	29.1	101	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7782-49-2	Selenium	0.34	UN	1	0.34	1.01	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-22-4	Silver	0.053	UN	1	0.053	0.51	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-23-5	Sodium	60.6	J	1	36.6	101	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-28-0	Thallium	0.45	U	1	0.45	2.03	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-62-2	Vanadium	17.2		1	0.27	2.03	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050
7440-66-6	Zinc	25.3		1	0.11	2.03	mg/Kg	02/25/25 10:05	03/10/25 15:22	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	METALS-TAL				

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

J = Estimated Value
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* = indicates the duplicate analysis is not within control limits.
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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB19	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	11:15	LB134807

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB25	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	11:20	LB134807
CCB26	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	11:53	LB134807
CCB27	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	12:37	LB134807
CCB28	Mercury	0.20	+/-0.20	U	0.20	CV	02/26/2025	12:49	LB134807

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	03/10/2025	11:57	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	11:57	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	11:57	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	11:57	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	11:57	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	11:57	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	11:57	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	11:57	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	11:57	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	11:57	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	11:57	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	11:57	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	11:57	LB134965

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	03/10/2025	12:34	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	12:34	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	12:34	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	12:34	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	12:34	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	12:34	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	12:34	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	12:34	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	12:34	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	12:34	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	12:34	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	12:34	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	12:34	LB134965
CCB02	Aluminum	100	+/-100	U	100	P	03/10/2025	13:25	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	13:25	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	13:25	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	13:25	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	13:25	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	13:25	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	13:25	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	13:25	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	13:25	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	13:25	LB134965

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	13:25	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	13:25	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	13:25	LB134965
CCB03	Aluminum	100	+/-100	U	100	P	03/10/2025	14:15	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	14:15	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	14:15	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	14:15	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	14:15	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	14:15	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	14:15	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	14:15	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	14:15	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	14:15	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	14:15	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	14:15	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	14:15	LB134965
CCB04	Aluminum	100	+/-100	U	100	P	03/10/2025	15:05	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	15:05	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	15:05	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:05	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:05	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	15:05	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	15:05	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	15:05	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	15:05	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	15:05	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	15:05	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	15:05	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	15:05	LB134965
CCB05	Aluminum	100	+/-100	U	100	P	03/10/2025	15:55	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	15:55	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	15:55	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:55	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	15:55	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	15:55	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	15:55	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	15:55	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	15:55	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	15:55	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	15:55	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	15:55	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	15:55	LB134965
CCB06	Aluminum	100	+/-100	U	100	P	03/10/2025	16:52	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	16:52	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	16:52	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	16:52	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	16:52	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	16:52	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	16:52	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	16:52	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	16:52	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	16:52	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	16:52	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	16:52	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	16:52	LB134965
CCB07	Aluminum	100	+/-100	U	100	P	03/10/2025	17:44	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	17:44	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	17:44	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	17:44	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	17:44	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	17:44	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	17:44	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	17:44	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	17:44	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	17:44	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	17:44	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	17:44	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	17:44	LB134965
CCB08	Aluminum	100	+/-100	U	100	P	03/10/2025	18:33	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	18:33	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	18:33	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:33	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:33	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	18:33	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	18:33	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	18:33	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	18:33	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	18:33	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	18:33	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	18:33	LB134965
	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	18:33	LB134965
CCB09	Aluminum	100	+/-100	U	100	P	03/10/2025	18:50	LB134965
	Antimony	50.0	+/-50.0	U	50.0	P	03/10/2025	18:50	LB134965
	Arsenic	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Barium	100	+/-100	U	100	P	03/10/2025	18:50	LB134965
	Beryllium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:50	LB134965
	Cadmium	6.00	+/-6.00	U	6.00	P	03/10/2025	18:50	LB134965
	Calcium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965
	Chromium	10.0	+/-10.0	U	10.0	P	03/10/2025	18:50	LB134965
	Cobalt	30.0	+/-30.0	U	30.0	P	03/10/2025	18:50	LB134965
	Copper	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Iron	100	+/-100	U	100	P	03/10/2025	18:50	LB134965
	Lead	12.0	+/-12.0	U	12.0	P	03/10/2025	18:50	LB134965
	Magnesium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965
	Manganese	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Nickel	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965
	Potassium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965
	Selenium	20.0	+/-20.0	U	20.0	P	03/10/2025	18:50	LB134965
	Silver	10.0	+/-10.0	U	10.0	P	03/10/2025	18:50	LB134965
	Sodium	2000	+/-2000	U	2000	P	03/10/2025	18:50	LB134965

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965
	Vanadium	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965
	Zinc	40.0	+/-40.0	U	40.0	P	03/10/2025	18:50	LB134965

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Metals
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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166864BL		**SOLID**		**Batch Number:**	**PB166864**		**Prep Date:**	**02/25/2025**	
	Mercury	0.013	<0.013	U	0.013	CV	02/26/2025	11:32	LB134807

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PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB166858BL		**SOLID**		**Batch Number:**	**PB166858**		**Prep Date:**	**02/25/2025**	
	Aluminum	4.41	<4.41	U	4.41	P	03/10/2025	16:33	LB134965
	Antimony	2.20	<2.20	U	2.20	P	03/10/2025	16:33	LB134965
	Arsenic	0.88	<0.88	U	0.88	P	03/10/2025	16:33	LB134965
	Barium	4.41	<4.41	U	4.41	P	03/10/2025	16:33	LB134965
	Beryllium	0.26	<0.26	U	0.26	P	03/10/2025	16:33	LB134965
	Cadmium	0.26	<0.26	U	0.26	P	03/10/2025	16:33	LB134965
	Calcium	88.1	<88.1	U	88.1	P	03/10/2025	16:33	LB134965
	Chromium	0.44	<0.44	U	0.44	P	03/10/2025	16:33	LB134965
	Cobalt	1.32	<1.32	U	1.32	P	03/10/2025	16:33	LB134965
	Copper	0.88	<0.88	U	0.88	P	03/10/2025	16:33	LB134965
	Iron	4.41	<4.41	U	4.41	P	03/10/2025	16:33	LB134965
	Lead	0.53	<0.53	U	0.53	P	03/10/2025	16:33	LB134965
	Magnesium	88.1	<88.1	U	88.1	P	03/10/2025	16:33	LB134965
	Manganese	0.88	<0.88	U	0.88	P	03/10/2025	16:33	LB134965
	Nickel	1.76	<1.76	U	1.76	P	03/10/2025	16:33	LB134965
	Potassium	88.1	<88.1	U	88.1	P	03/10/2025	16:33	LB134965
	Selenium	0.88	<0.88	U	0.88	P	03/10/2025	16:33	LB134965
	Silver	0.44	<0.44	U	0.44	P	03/10/2025	16:33	LB134965
	Sodium	88.1	<88.1	U	88.1	P	03/10/2025	16:33	LB134965
	Thallium	1.76	<1.76	U	1.76	P	03/10/2025	16:33	LB134965
	Vanadium	1.76	<1.76	U	1.76	P	03/10/2025	16:33	LB134965
	Zinc	0.42	<1.76	J	1.76	P	03/10/2025	16:33	LB134965

METAL CALIBRATION DATA

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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
ICV19	Mercury	3.63	4.0	91	90 - 110	CV	02/26/2025	11:10	LB134807

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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
CCV25	Mercury	5.01	5.0	100	90 - 110	CV	02/26/2025	11:18	LB134807
CCV26	Mercury	4.86	5.0	97	90 - 110	CV	02/26/2025	11:48	LB134807
CCV27	Mercury	4.78	5.0	96	90 - 110	CV	02/26/2025	12:30	LB134807
CCV28	Mercury	4.73	5.0	95	90 - 110	CV	02/26/2025	12:46	LB134807

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	2500	2500	100	90 - 110	P	03/10/2025	11:48	LB134965
	Antimony	1010	1000	100	90 - 110	P	03/10/2025	11:48	LB134965
	Arsenic	1030	1000	103	90 - 110	P	03/10/2025	11:48	LB134965
	Barium	537	520	103	90 - 110	P	03/10/2025	11:48	LB134965
	Beryllium	517	510	101	90 - 110	P	03/10/2025	11:48	LB134965
	Cadmium	503	510	99	90 - 110	P	03/10/2025	11:48	LB134965
	Calcium	9910	10000	99	90 - 110	P	03/10/2025	11:48	LB134965
	Chromium	531	520	102	90 - 110	P	03/10/2025	11:48	LB134965
	Cobalt	510	520	98	90 - 110	P	03/10/2025	11:48	LB134965
	Copper	524	510	103	90 - 110	P	03/10/2025	11:48	LB134965
	Iron	10400	10000	104	90 - 110	P	03/10/2025	11:48	LB134965
	Lead	1010	1000	101	90 - 110	P	03/10/2025	11:48	LB134965
	Magnesium	5800	6000	97	90 - 110	P	03/10/2025	11:48	LB134965
	Manganese	503	520	97	90 - 110	P	03/10/2025	11:48	LB134965
	Nickel	513	530	97	90 - 110	P	03/10/2025	11:48	LB134965
	Potassium	10200	9900	103	90 - 110	P	03/10/2025	11:48	LB134965
	Selenium	1040	1000	104	90 - 110	P	03/10/2025	11:48	LB134965
	Silver	257	250	103	90 - 110	P	03/10/2025	11:48	LB134965
	Sodium	9760	10000	98	90 - 110	P	03/10/2025	11:48	LB134965
	Thallium	1040	1000	104	90 - 110	P	03/10/2025	11:48	LB134965
	Vanadium	513	500	103	90 - 110	P	03/10/2025	11:48	LB134965
	Zinc	1040	1000	104	90 - 110	P	03/10/2025	11:48	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	103	100	103	80 - 120	P	03/10/2025	11:52	LB134965
	Antimony	49.7	50.0	99	80 - 120	P	03/10/2025	11:52	LB134965
	Arsenic	17.9	20.0	90	80 - 120	P	03/10/2025	11:52	LB134965
	Barium	90.3	100	90	80 - 120	P	03/10/2025	11:52	LB134965
	Beryllium	5.54	6.0	92	80 - 120	P	03/10/2025	11:52	LB134965
	Cadmium	5.56	6.0	93	80 - 120	P	03/10/2025	11:52	LB134965
	Calcium	1900	2000	95	80 - 120	P	03/10/2025	11:52	LB134965
	Chromium	9.58	10.0	96	80 - 120	P	03/10/2025	11:52	LB134965
	Cobalt	28.0	30.0	93	80 - 120	P	03/10/2025	11:52	LB134965
	Copper	21.2	20.0	106	80 - 120	P	03/10/2025	11:52	LB134965
	Iron	108	100	108	80 - 120	P	03/10/2025	11:52	LB134965
	Lead	11.7	12.0	97	80 - 120	P	03/10/2025	11:52	LB134965
	Magnesium	1970	2000	99	80 - 120	P	03/10/2025	11:52	LB134965
	Manganese	19.2	20.0	96	80 - 120	P	03/10/2025	11:52	LB134965
	Nickel	37.4	40.0	93	80 - 120	P	03/10/2025	11:52	LB134965
	Potassium	1930	2000	97	80 - 120	P	03/10/2025	11:52	LB134965
	Selenium	18.2	20.0	91	80 - 120	P	03/10/2025	11:52	LB134965
	Silver	9.78	10.0	98	80 - 120	P	03/10/2025	11:52	LB134965
	Sodium	1800	2000	90	80 - 120	P	03/10/2025	11:52	LB134965
	Thallium	40.0	40.0	100	80 - 120	P	03/10/2025	11:52	LB134965
	Vanadium	35.7	40.0	89	80 - 120	P	03/10/2025	11:52	LB134965
	Zinc	40.5	40.0	101	80 - 120	P	03/10/2025	11:52	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	9760	10000	98	90 - 110	P	03/10/2025	12:27	LB134965
	Antimony	5060	5000	101	90 - 110	P	03/10/2025	12:27	LB134965
	Arsenic	4990	5000	100	90 - 110	P	03/10/2025	12:27	LB134965
	Barium	9500	10000	95	90 - 110	P	03/10/2025	12:27	LB134965
	Beryllium	247	250	99	90 - 110	P	03/10/2025	12:27	LB134965
	Cadmium	2440	2500	97	90 - 110	P	03/10/2025	12:27	LB134965
	Calcium	26100	25000	104	90 - 110	P	03/10/2025	12:27	LB134965
	Chromium	1000	1000	100	90 - 110	P	03/10/2025	12:27	LB134965
	Cobalt	2430	2500	97	90 - 110	P	03/10/2025	12:27	LB134965
	Copper	1240	1250	99	90 - 110	P	03/10/2025	12:27	LB134965
	Iron	4820	5000	96	90 - 110	P	03/10/2025	12:27	LB134965
	Lead	4900	5000	98	90 - 110	P	03/10/2025	12:27	LB134965
	Magnesium	25900	25000	104	90 - 110	P	03/10/2025	12:27	LB134965
	Manganese	2620	2500	105	90 - 110	P	03/10/2025	12:27	LB134965
	Nickel	2440	2500	98	90 - 110	P	03/10/2025	12:27	LB134965
	Potassium	24200	25000	97	90 - 110	P	03/10/2025	12:27	LB134965
	Selenium	5030	5000	101	90 - 110	P	03/10/2025	12:27	LB134965
	Silver	1220	1250	98	90 - 110	P	03/10/2025	12:27	LB134965
	Sodium	24100	25000	96	90 - 110	P	03/10/2025	12:27	LB134965
	Thallium	4960	5000	99	90 - 110	P	03/10/2025	12:27	LB134965
	Vanadium	2410	2500	96	90 - 110	P	03/10/2025	12:27	LB134965
	Zinc	2470	2500	99	90 - 110	P	03/10/2025	12:27	LB134965
CCV02	Aluminum	9920	10000	99	90 - 110	P	03/10/2025	13:21	LB134965
	Antimony	5190	5000	104	90 - 110	P	03/10/2025	13:21	LB134965
	Arsenic	5090	5000	102	90 - 110	P	03/10/2025	13:21	LB134965
	Barium	10200	10000	102	90 - 110	P	03/10/2025	13:21	LB134965
	Beryllium	231	250	93	90 - 110	P	03/10/2025	13:21	LB134965
	Cadmium	2470	2500	99	90 - 110	P	03/10/2025	13:21	LB134965
	Calcium	24300	25000	97	90 - 110	P	03/10/2025	13:21	LB134965
	Chromium	1000	1000	100	90 - 110	P	03/10/2025	13:21	LB134965
	Cobalt	2480	2500	99	90 - 110	P	03/10/2025	13:21	LB134965
	Copper	1270	1250	102	90 - 110	P	03/10/2025	13:21	LB134965
	Iron	5220	5000	104	90 - 110	P	03/10/2025	13:21	LB134965
	Lead	4950	5000	99	90 - 110	P	03/10/2025	13:21	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	24000	25000	96	90 - 110	P	03/10/2025	13:21	LB134965
	Manganese	2420	2500	97	90 - 110	P	03/10/2025	13:21	LB134965
	Nickel	2490	2500	100	90 - 110	P	03/10/2025	13:21	LB134965
	Potassium	26700	25000	107	90 - 110	P	03/10/2025	13:21	LB134965
	Selenium	5150	5000	103	90 - 110	P	03/10/2025	13:21	LB134965
	Silver	1260	1250	101	90 - 110	P	03/10/2025	13:21	LB134965
	Sodium	26400	25000	106	90 - 110	P	03/10/2025	13:21	LB134965
	Thallium	5050	5000	101	90 - 110	P	03/10/2025	13:21	LB134965
	Vanadium	2470	2500	99	90 - 110	P	03/10/2025	13:21	LB134965
	Zinc	2550	2500	102	90 - 110	P	03/10/2025	13:21	LB134965
CCV03	Aluminum	10000	10000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Antimony	5250	5000	105	90 - 110	P	03/10/2025	14:11	LB134965
	Arsenic	5180	5000	104	90 - 110	P	03/10/2025	14:11	LB134965
	Barium	10200	10000	102	90 - 110	P	03/10/2025	14:11	LB134965
	Beryllium	239	250	96	90 - 110	P	03/10/2025	14:11	LB134965
	Cadmium	2500	2500	100	90 - 110	P	03/10/2025	14:11	LB134965
	Calcium	24500	25000	98	90 - 110	P	03/10/2025	14:11	LB134965
	Chromium	1000	1000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Cobalt	2510	2500	100	90 - 110	P	03/10/2025	14:11	LB134965
	Copper	1300	1250	104	90 - 110	P	03/10/2025	14:11	LB134965
	Iron	5200	5000	104	90 - 110	P	03/10/2025	14:11	LB134965
	Lead	5010	5000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Magnesium	24300	25000	97	90 - 110	P	03/10/2025	14:11	LB134965
	Manganese	2420	2500	97	90 - 110	P	03/10/2025	14:11	LB134965
	Nickel	2520	2500	101	90 - 110	P	03/10/2025	14:11	LB134965
	Potassium	26600	25000	106	90 - 110	P	03/10/2025	14:11	LB134965
	Selenium	5240	5000	105	90 - 110	P	03/10/2025	14:11	LB134965
	Silver	1280	1250	102	90 - 110	P	03/10/2025	14:11	LB134965
	Sodium	25900	25000	104	90 - 110	P	03/10/2025	14:11	LB134965
	Thallium	5010	5000	100	90 - 110	P	03/10/2025	14:11	LB134965
	Vanadium	2500	2500	100	90 - 110	P	03/10/2025	14:11	LB134965
	Zinc	2590	2500	104	90 - 110	P	03/10/2025	14:11	LB134965
CCV04	Aluminum	9730	10000	97	90 - 110	P	03/10/2025	15:01	LB134965
	Antimony	5120	5000	102	90 - 110	P	03/10/2025	15:01	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	5010	5000	100	90 - 110	P	03/10/2025	15:01	LB134965
	Barium	9950	10000	100	90 - 110	P	03/10/2025	15:01	LB134965
	Beryllium	226	250	90	90 - 110	P	03/10/2025	15:01	LB134965
	Cadmium	2420	2500	97	90 - 110	P	03/10/2025	15:01	LB134965
	Calcium	24000	25000	96	90 - 110	P	03/10/2025	15:01	LB134965
	Chromium	993	1000	99	90 - 110	P	03/10/2025	15:01	LB134965
	Cobalt	2440	2500	98	90 - 110	P	03/10/2025	15:01	LB134965
	Copper	1250	1250	100	90 - 110	P	03/10/2025	15:01	LB134965
	Iron	5240	5000	105	90 - 110	P	03/10/2025	15:01	LB134965
	Lead	4860	5000	97	90 - 110	P	03/10/2025	15:01	LB134965
	Magnesium	23700	25000	95	90 - 110	P	03/10/2025	15:01	LB134965
	Manganese	2360	2500	94	90 - 110	P	03/10/2025	15:01	LB134965
	Nickel	2440	2500	98	90 - 110	P	03/10/2025	15:01	LB134965
	Potassium	26800	25000	107	90 - 110	P	03/10/2025	15:01	LB134965
	Selenium	5050	5000	101	90 - 110	P	03/10/2025	15:01	LB134965
	Silver	1250	1250	100	90 - 110	P	03/10/2025	15:01	LB134965
	Sodium	26100	25000	104	90 - 110	P	03/10/2025	15:01	LB134965
	Thallium	4780	5000	96	90 - 110	P	03/10/2025	15:01	LB134965
	Vanadium	2450	2500	98	90 - 110	P	03/10/2025	15:01	LB134965
	Zinc	2510	2500	100	90 - 110	P	03/10/2025	15:01	LB134965
CCV05	Aluminum	9800	10000	98	90 - 110	P	03/10/2025	15:51	LB134965
	Antimony	5090	5000	102	90 - 110	P	03/10/2025	15:51	LB134965
	Arsenic	5000	5000	100	90 - 110	P	03/10/2025	15:51	LB134965
	Barium	9730	10000	97	90 - 110	P	03/10/2025	15:51	LB134965
	Beryllium	239	250	96	90 - 110	P	03/10/2025	15:51	LB134965
	Cadmium	2420	2500	97	90 - 110	P	03/10/2025	15:51	LB134965
	Calcium	23800	25000	95	90 - 110	P	03/10/2025	15:51	LB134965
	Chromium	983	1000	98	90 - 110	P	03/10/2025	15:51	LB134965
	Cobalt	2440	2500	98	90 - 110	P	03/10/2025	15:51	LB134965
	Copper	1250	1250	100	90 - 110	P	03/10/2025	15:51	LB134965
	Iron	4890	5000	98	90 - 110	P	03/10/2025	15:51	LB134965
	Lead	4850	5000	97	90 - 110	P	03/10/2025	15:51	LB134965
	Magnesium	24000	25000	96	90 - 110	P	03/10/2025	15:51	LB134965
	Manganese	2360	2500	94	90 - 110	P	03/10/2025	15:51	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	2450	2500	98	90 - 110	P	03/10/2025	15:51	LB134965
	Potassium	25000	25000	100	90 - 110	P	03/10/2025	15:51	LB134965
	Selenium	5020	5000	100	90 - 110	P	03/10/2025	15:51	LB134965
	Silver	1250	1250	100	90 - 110	P	03/10/2025	15:51	LB134965
	Sodium	24100	25000	96	90 - 110	P	03/10/2025	15:51	LB134965
	Thallium	4850	5000	97	90 - 110	P	03/10/2025	15:51	LB134965
	Vanadium	2450	2500	98	90 - 110	P	03/10/2025	15:51	LB134965
	Zinc	2500	2500	100	90 - 110	P	03/10/2025	15:51	LB134965
CCV06	Aluminum	9600	10000	96	90 - 110	P	03/10/2025	16:48	LB134965
	Antimony	5090	5000	102	90 - 110	P	03/10/2025	16:48	LB134965
	Arsenic	4980	5000	100	90 - 110	P	03/10/2025	16:48	LB134965
	Barium	9720	10000	97	90 - 110	P	03/10/2025	16:48	LB134965
	Beryllium	268	250	107	90 - 110	P	03/10/2025	16:48	LB134965
	Cadmium	2410	2500	96	90 - 110	P	03/10/2025	16:48	LB134965
	Calcium	23700	25000	95	90 - 110	P	03/10/2025	16:48	LB134965
	Chromium	977	1000	98	90 - 110	P	03/10/2025	16:48	LB134965
	Cobalt	2430	2500	97	90 - 110	P	03/10/2025	16:48	LB134965
	Copper	1250	1250	100	90 - 110	P	03/10/2025	16:48	LB134965
	Iron	5100	5000	102	90 - 110	P	03/10/2025	16:48	LB134965
	Lead	4830	5000	96	90 - 110	P	03/10/2025	16:48	LB134965
	Magnesium	23600	25000	94	90 - 110	P	03/10/2025	16:48	LB134965
	Manganese	2680	2500	107	90 - 110	P	03/10/2025	16:48	LB134965
	Nickel	2440	2500	97	90 - 110	P	03/10/2025	16:48	LB134965
	Potassium	26100	25000	104	90 - 110	P	03/10/2025	16:48	LB134965
	Selenium	5020	5000	100	90 - 110	P	03/10/2025	16:48	LB134965
	Silver	1240	1250	100	90 - 110	P	03/10/2025	16:48	LB134965
	Sodium	24900	25000	100	90 - 110	P	03/10/2025	16:48	LB134965
	Thallium	4890	5000	98	90 - 110	P	03/10/2025	16:48	LB134965
	Vanadium	2420	2500	97	90 - 110	P	03/10/2025	16:48	LB134965
	Zinc	2500	2500	100	90 - 110	P	03/10/2025	16:48	LB134965
CCV07	Aluminum	9380	10000	94	90 - 110	P	03/10/2025	17:39	LB134965
	Antimony	5010	5000	100	90 - 110	P	03/10/2025	17:39	LB134965
	Arsenic	4890	5000	98	90 - 110	P	03/10/2025	17:39	LB134965
	Barium	9380	10000	94	90 - 110	P	03/10/2025	17:39	LB134965

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	259	250	104	90 - 110	P	03/10/2025	17:39	LB134965
	Cadmium	2350	2500	94	90 - 110	P	03/10/2025	17:39	LB134965
	Calcium	22900	25000	92	90 - 110	P	03/10/2025	17:39	LB134965
	Chromium	942	1000	94	90 - 110	P	03/10/2025	17:39	LB134965
	Cobalt	2370	2500	95	90 - 110	P	03/10/2025	17:39	LB134965
	Copper	1220	1250	98	90 - 110	P	03/10/2025	17:39	LB134965
	Iron	4820	5000	96	90 - 110	P	03/10/2025	17:39	LB134965
	Lead	4710	5000	94	90 - 110	P	03/10/2025	17:39	LB134965
	Magnesium	23000	25000	92	90 - 110	P	03/10/2025	17:39	LB134965
	Manganese	2580	2500	103	90 - 110	P	03/10/2025	17:39	LB134965
	Nickel	2380	2500	95	90 - 110	P	03/10/2025	17:39	LB134965
	Potassium	24600	25000	98	90 - 110	P	03/10/2025	17:39	LB134965
	Selenium	4950	5000	99	90 - 110	P	03/10/2025	17:39	LB134965
	Silver	1190	1250	95	90 - 110	P	03/10/2025	17:39	LB134965
	Sodium	23300	25000	93	90 - 110	P	03/10/2025	17:39	LB134965
	Thallium	4820	5000	96	90 - 110	P	03/10/2025	17:39	LB134965
	Vanadium	2350	2500	94	90 - 110	P	03/10/2025	17:39	LB134965
	Zinc	2410	2500	96	90 - 110	P	03/10/2025	17:39	LB134965
CCV08	Aluminum	9210	10000	92	90 - 110	P	03/10/2025	18:29	LB134965
	Antimony	4880	5000	98	90 - 110	P	03/10/2025	18:29	LB134965
	Arsenic	4780	5000	96	90 - 110	P	03/10/2025	18:29	LB134965
	Barium	9560	10000	96	90 - 110	P	03/10/2025	18:29	LB134965
	Beryllium	259	250	103	90 - 110	P	03/10/2025	18:29	LB134965
	Cadmium	2320	2500	93	90 - 110	P	03/10/2025	18:29	LB134965
	Calcium	22900	25000	92	90 - 110	P	03/10/2025	18:29	LB134965
	Chromium	933	1000	93	90 - 110	P	03/10/2025	18:29	LB134965
	Cobalt	2340	2500	94	90 - 110	P	03/10/2025	18:29	LB134965
	Copper	1200	1250	96	90 - 110	P	03/10/2025	18:29	LB134965
	Iron	4930	5000	99	90 - 110	P	03/10/2025	18:29	LB134965
	Lead	4630	5000	93	90 - 110	P	03/10/2025	18:29	LB134965
	Magnesium	22900	25000	92	90 - 110	P	03/10/2025	18:29	LB134965
	Manganese	2610	2500	104	90 - 110	P	03/10/2025	18:29	LB134965
	Nickel	2350	2500	94	90 - 110	P	03/10/2025	18:29	LB134965
	Potassium	25100	25000	100	90 - 110	P	03/10/2025	18:29	LB134965

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	4800	5000	96	90 - 110	P	03/10/2025	18:29	LB134965
	Silver	1200	1250	96	90 - 110	P	03/10/2025	18:29	LB134965
	Sodium	23800	25000	95	90 - 110	P	03/10/2025	18:29	LB134965
	Thallium	4760	5000	95	90 - 110	P	03/10/2025	18:29	LB134965
	Vanadium	2330	2500	93	90 - 110	P	03/10/2025	18:29	LB134965
	Zinc	2410	2500	96	90 - 110	P	03/10/2025	18:29	LB134965
CCV09	Aluminum	9210	10000	92	90 - 110	P	03/10/2025	18:46	LB134965
	Antimony	4910	5000	98	90 - 110	P	03/10/2025	18:46	LB134965
	Arsenic	4800	5000	96	90 - 110	P	03/10/2025	18:46	LB134965
	Barium	9700	10000	97	90 - 110	P	03/10/2025	18:46	LB134965
	Beryllium	253	250	101	90 - 110	P	03/10/2025	18:46	LB134965
	Cadmium	2320	2500	93	90 - 110	P	03/10/2025	18:46	LB134965
	Calcium	22900	25000	92	90 - 110	P	03/10/2025	18:46	LB134965
	Chromium	923	1000	92	90 - 110	P	03/10/2025	18:46	LB134965
	Cobalt	2340	2500	94	90 - 110	P	03/10/2025	18:46	LB134965
	Copper	1210	1250	97	90 - 110	P	03/10/2025	18:46	LB134965
	Iron	4910	5000	98	90 - 110	P	03/10/2025	18:46	LB134965
	Lead	4630	5000	93	90 - 110	P	03/10/2025	18:46	LB134965
	Magnesium	22700	25000	91	90 - 110	P	03/10/2025	18:46	LB134965
	Manganese	2540	2500	102	90 - 110	P	03/10/2025	18:46	LB134965
	Nickel	2350	2500	94	90 - 110	P	03/10/2025	18:46	LB134965
	Potassium	25300	25000	101	90 - 110	P	03/10/2025	18:46	LB134965
	Selenium	4840	5000	97	90 - 110	P	03/10/2025	18:46	LB134965
	Silver	1180	1250	95	90 - 110	P	03/10/2025	18:46	LB134965
	Sodium	24000	25000	96	90 - 110	P	03/10/2025	18:46	LB134965
	Thallium	4750	5000	95	90 - 110	P	03/10/2025	18:46	LB134965
	Vanadium	2340	2500	94	90 - 110	P	03/10/2025	18:46	LB134965
	Zinc	2360	2500	94	90 - 110	P	03/10/2025	18:46	LB134965

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	0.17	0.2	86	40 - 160	CV	02/26/2025	11:22	LB134807
CRI01	Aluminum	98.3	100	98	40 - 160	P	03/10/2025	12:01	LB134965
	Antimony	49.7	50.0	100	40 - 160	P	03/10/2025	12:01	LB134965
	Arsenic	18.2	20.0	91	40 - 160	P	03/10/2025	12:01	LB134965
	Barium	90.9	100	91	40 - 160	P	03/10/2025	12:01	LB134965
	Beryllium	5.47	6.0	91	40 - 160	P	03/10/2025	12:01	LB134965
	Cadmium	5.67	6.0	94	40 - 160	P	03/10/2025	12:01	LB134965
	Calcium	1900	2000	95	40 - 160	P	03/10/2025	12:01	LB134965
	Chromium	10.4	10.0	104	40 - 160	P	03/10/2025	12:01	LB134965
	Cobalt	28.3	30.0	94	40 - 160	P	03/10/2025	12:01	LB134965
	Copper	21.4	20.0	107	40 - 160	P	03/10/2025	12:01	LB134965
	Iron	111	100	111	40 - 160	P	03/10/2025	12:01	LB134965
	Lead	12.0	12.0	100	40 - 160	P	03/10/2025	12:01	LB134965
	Magnesium	1980	2000	99	40 - 160	P	03/10/2025	12:01	LB134965
	Manganese	19.3	20.0	96	40 - 160	P	03/10/2025	12:01	LB134965
	Nickel	37.9	40.0	95	40 - 160	P	03/10/2025	12:01	LB134965
	Potassium	1950	2000	97	40 - 160	P	03/10/2025	12:01	LB134965
	Selenium	21.0	20.0	105	40 - 160	P	03/10/2025	12:01	LB134965
	Silver	10.2	10.0	102	40 - 160	P	03/10/2025	12:01	LB134965
	Sodium	1810	2000	91	40 - 160	P	03/10/2025	12:01	LB134965
	Thallium	39.5	40.0	99	40 - 160	P	03/10/2025	12:01	LB134965
	Vanadium	36.7	40.0	92	40 - 160	P	03/10/2025	12:01	LB134965
	Zinc	41.3	40.0	103	40 - 160	P	03/10/2025	12:01	LB134965

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	249000	255000	98	216000	294000	03/10/2025	12:05	LB134965
	Antimony	-1.69			-50	50	03/10/2025	12:05	LB134965
	Arsenic	3.58			-20	20	03/10/2025	12:05	LB134965
	Barium	1.50	6.0	25	-94	106	03/10/2025	12:05	LB134965
	Beryllium	1.23			-6	6	03/10/2025	12:05	LB134965
	Cadmium	-4.00	1.0	400	-5	7	03/10/2025	12:05	LB134965
	Calcium	230000	245000	94	208000	282000	03/10/2025	12:05	LB134965
	Chromium	59.3	52.0	114	42	62	03/10/2025	12:05	LB134965
	Cobalt	1.96			-30	30	03/10/2025	12:05	LB134965
	Copper	9.85	2.0	492	-18	22	03/10/2025	12:05	LB134965
	Iron	101000	101000	100	85600	116500	03/10/2025	12:05	LB134965
	Lead	6.57			-12	12	03/10/2025	12:05	LB134965
	Magnesium	246000	255000	96	216000	294000	03/10/2025	12:05	LB134965
	Manganese	3.05	7.0	44	-13	27	03/10/2025	12:05	LB134965
	Nickel	2.12	2.0	106	-38	42	03/10/2025	12:05	LB134965
	Potassium	80.0			0	0	03/10/2025	12:05	LB134965
	Selenium	-12.1			-20	20	03/10/2025	12:05	LB134965
	Silver	-0.43			-10	10	03/10/2025	12:05	LB134965
	Sodium	30.5			0	0	03/10/2025	12:05	LB134965
	Thallium	7.69			-40	40	03/10/2025	12:05	LB134965
	Vanadium	4.01			-40	40	03/10/2025	12:05	LB134965
	Zinc	2.96			-40	40	03/10/2025	12:05	LB134965
ICSAB01	Aluminum	248000	247000	100	209000	285000	03/10/2025	12:10	LB134965
	Antimony	630	618	102	525	711	03/10/2025	12:10	LB134965
	Arsenic	110	104	106	88.4	120	03/10/2025	12:10	LB134965
	Barium	483	537	90	437	637	03/10/2025	12:10	LB134965
	Beryllium	489	495	99	420	570	03/10/2025	12:10	LB134965
	Cadmium	1020	972	105	826	1120	03/10/2025	12:10	LB134965
	Calcium	233000	235000	99	199000	271000	03/10/2025	12:10	LB134965
	Chromium	581	542	107	460	624	03/10/2025	12:10	LB134965
	Cobalt	516	476	108	404	548	03/10/2025	12:10	LB134965
	Copper	518	511	101	434	588	03/10/2025	12:10	LB134965
	Iron	102000	99300	103	84400	114500	03/10/2025	12:10	LB134965
	Lead	56.3	49.0	115	37	61	03/10/2025	12:10	LB134965
	Magnesium	250000	248000	101	210000	286000	03/10/2025	12:10	LB134965
	Manganese	475	507	94	430	584	03/10/2025	12:10	LB134965
	Nickel	1020	954	107	810	1100	03/10/2025	12:10	LB134965
	Potassium	87.8			0	0	03/10/2025	12:10	LB134965
	Selenium	34.1	46.0	74	26	66	03/10/2025	12:10	LB134965
	Silver	221	201	110	170	232	03/10/2025	12:10	LB134965
	Sodium	58.9			0	0	03/10/2025	12:10	LB134965
	Thallium	108	108	100	68	148	03/10/2025	12:10	LB134965

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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	471	491	96	417	565	03/10/2025	12:10	LB134965
	Zinc	1070	952	112	809	1095	03/10/2025	12:10	LB134965

METAL QC DATA

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metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1422

contract: PORT06 **lab code:** CHEM **case no.:** Q1422 **sas no.:** Q1422

matrix: Solid **sample id:** Q1421-01 **client id:** P001-CLAY-CF01-01MS

Percent Solids for Sample: 70.3 **Spiked ID:** Q1421-02 **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8730		6910		140	1300		P
Antimony	mg/Kg	75 - 125	13.5		3.23	U	55.8	24	N	P
Arsenic	mg/Kg	75 - 125	63.7		13.9		55.8	89		P
Barium	mg/Kg	75 - 125	67.9		53.2		13.9	106		P
Beryllium	mg/Kg	75 - 125	12.4		1.43		13.9	79		P
Cadmium	mg/Kg	75 - 125	12.0		0.39	U	13.9	86		P
Calcium	mg/Kg	75 - 125	4920		4470		69.7	644		P
Chromium	mg/Kg	75 - 125	41.9		15.4		27.9	95		P
Cobalt	mg/Kg	75 - 125	24.3		9.63		13.9	105		P
Copper	mg/Kg	75 - 125	37.9		17.4		20.9	98		P
Iron	mg/Kg	75 - 125	85600	D	70100	D	210	7399		P
Lead	mg/Kg	75 - 125	78.0		14.4		69.7	91		P
Magnesium	mg/Kg	75 - 125	3650		3020		140	449		P
Manganese	mg/Kg	75 - 125	569		492		13.9	560		P
Mercury	mg/Kg	80 - 120	0.52		0.030		0.4	122	N	CV
Nickel	mg/Kg	75 - 125	56.1		20.5		34.9	102		P
Potassium	mg/Kg	75 - 125	4140		3070		700	152		P
Selenium	mg/Kg	75 - 125	91.2		1.29	U	140	65	N	P
Silver	mg/Kg	75 - 125	2.78		0.65	U	5.2	54	N	P
Sodium	mg/Kg	75 - 125	293		102	J	210	91		P
Thallium	mg/Kg	75 - 125	120		5.31		140	82		P
Vanadium	mg/Kg	75 - 125	45.0		23.4		20.9	104		P
Zinc	mg/Kg	75 - 125	91.2		72.9		13.9	132		P

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metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1422

contract: PORT06 **lab code:** CHEM **case no.:** Q1422 **sas no.:** Q1422

matrix: Solid **sample id:** Q1421-01 **client id:** P001-CLAY-CF01-01MSD

Percent Solids for Sample: 70.3 **Spiked ID:** Q1421-03 **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7930		6910		130	789		P
Antimony	mg/Kg	75 - 125	12.6		3.23	U	50.4	25	N	P
Arsenic	mg/Kg	75 - 125	58.4		13.9		50.4	88		P
Barium	mg/Kg	75 - 125	61.9		53.2		12.6	69		P
Beryllium	mg/Kg	75 - 125	11.3		1.43		12.6	78		P
Cadmium	mg/Kg	75 - 125	10.8		0.39	U	12.6	86		P
Calcium	mg/Kg	75 - 125	4470		4470		62.9	-5		P
Chromium	mg/Kg	75 - 125	38.6		15.4		25.2	92		P
Cobalt	mg/Kg	75 - 125	22.2		9.63		12.6	100		P
Copper	mg/Kg	75 - 125	33.9		17.4		18.9	88		P
Iron	mg/Kg	75 - 125	79700	D	70100	D	190	5059		P
Lead	mg/Kg	75 - 125	71.5		14.4		62.9	91		P
Magnesium	mg/Kg	75 - 125	3320		3020		130	226		P
Manganese	mg/Kg	75 - 125	517		492		12.6	203		P
Mercury	mg/Kg	80 - 120	0.48		0.030		0.38	117		CV
Nickel	mg/Kg	75 - 125	51.2		20.5		31.5	98		P
Potassium	mg/Kg	75 - 125	3830		3070		630	120		P
Selenium	mg/Kg	75 - 125	84.2		1.29	U	130	65	N	P
Silver	mg/Kg	75 - 125	2.75		0.65	U	4.7	58	N	P
Sodium	mg/Kg	75 - 125	271		102	J	190	89		P
Thallium	mg/Kg	75 - 125	112		5.31		130	82		P
Vanadium	mg/Kg	75 - 125	40.9		23.4		18.9	93		P
Zinc	mg/Kg	75 - 125	84.0		72.9		12.6	88		P

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Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Matrix: Solid **Level:** LOW **Client ID:** P001-CLAY-CF01-01A

Sample ID: Q1421-01 **Spiked ID:** Q1421-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	11.7		3.23	U	51.7	23		P
Mercury	mg/Kg	80 - 120	0.47		0.030		0.40	109		CV
Selenium	mg/Kg	75 - 125	84.1		1.29	U	130	65		P
Silver	mg/Kg	75 - 125	3.12		0.65	U	4.80	65		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Matrix: Solid **Sample ID:** Q1421-01 **Client ID:** P001-CLAY-CF01-01DUP

Percent Solids for Sample: 70.3 **Duplicate ID** Q1421-01DUP **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	6910		7130		3		P
Antimony	mg/Kg	20	3.23	U	3.11	U			P
Arsenic	mg/Kg	20	13.9		16.3		16		P
Barium	mg/Kg	20	53.2		49.9		6		P
Beryllium	mg/Kg	20	1.43		1.48		3		P
Cadmium	mg/Kg	20	0.39	U	0.37	U			P
Calcium	mg/Kg	20	4470		4330		3		P
Chromium	mg/Kg	20	15.4		15.8		3		P
Cobalt	mg/Kg	20	9.63		10.1		5		P
Copper	mg/Kg	20	17.4		19.1		9		P
Iron	mg/Kg	20	70100	D	72500	D	3		P
Lead	mg/Kg	20	14.4		15.7		9		P
Magnesium	mg/Kg	20	3020		3080		2		P
Manganese	mg/Kg	20	492		486		1		P
Mercury	mg/Kg	20	0.030		0.028		7		CV
Nickel	mg/Kg	20	20.5		22.0		7		P
Potassium	mg/Kg	20	3070		2910		5		P
Selenium	mg/Kg	20	1.29	U	1.24	U			P
Silver	mg/Kg	20	0.65	U	0.62	U			P
Sodium	mg/Kg	20	102	J	102	J	0		P
Thallium	mg/Kg	20	5.31		5.10		4		P
Vanadium	mg/Kg	20	23.4		24.8		6		P
Zinc	mg/Kg	20	72.9		70.6		3		P

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

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Matrix: Solid **Sample ID:** Q1421-02 **Client ID:** P001-CLAY-CF01-01MSD

Percent Solids for Sample: 70.3 **Duplicate ID** Q1421-03 **Percent Solids for Spike Sample:** 70.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	8730		7930		10		P
Antimony	mg/Kg	20	13.5		12.6		7		P
Arsenic	mg/Kg	20	63.7		58.4		9		P
Barium	mg/Kg	20	67.9		61.9		9		P
Beryllium	mg/Kg	20	12.4		11.3		9		P
Cadmium	mg/Kg	20	12.0		10.8		11		P
Calcium	mg/Kg	20	4920		4470		10		P
Chromium	mg/Kg	20	41.9		38.6		8		P
Cobalt	mg/Kg	20	24.3		22.2		9		P
Copper	mg/Kg	20	37.9		33.9		11		P
Iron	mg/Kg	20	85600	D	79700	D	7		P
Lead	mg/Kg	20	78.0		71.5		9		P
Magnesium	mg/Kg	20	3650		3320		9		P
Manganese	mg/Kg	20	569		517		10		P
Mercury	mg/Kg	20	0.52		0.48		8		CV
Nickel	mg/Kg	20	56.1		51.2		9		P
Potassium	mg/Kg	20	4140		3830		8		P
Selenium	mg/Kg	20	91.2		84.2		8		P
Silver	mg/Kg	20	2.78		2.75		1		P
Sodium	mg/Kg	20	293		271		8		P
Thallium	mg/Kg	20	120		112		7		P
Vanadium	mg/Kg	20	45.0		40.9		10		P
Zinc	mg/Kg	20	91.2		84.0		8		P

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

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166858BS							
Aluminum	mg/Kg	88.9	82.6		93	80 - 120	P
Antimony	mg/Kg	35.6	34.6		97	80 - 120	P
Arsenic	mg/Kg	35.6	33.7		95	80 - 120	P
Barium	mg/Kg	8.9	7.61		86	80 - 120	P
Beryllium	mg/Kg	8.9	9.22		104	80 - 120	P
Cadmium	mg/Kg	8.9	7.90		89	80 - 120	P
Calcium	mg/Kg	44.4	42.3	J	95	80 - 120	P
Chromium	mg/Kg	17.8	17.1		96	80 - 120	P
Cobalt	mg/Kg	8.9	8.25		93	80 - 120	P
Copper	mg/Kg	13.3	13.1		98	80 - 120	P
Iron	mg/Kg	130	126		97	80 - 120	P
Lead	mg/Kg	44.4	40.0		90	80 - 120	P
Magnesium	mg/Kg	88.9	78.9	J	89	80 - 120	P
Manganese	mg/Kg	8.9	9.23		104	80 - 120	P
Nickel	mg/Kg	22.2	20.7		93	80 - 120	P
Potassium	mg/Kg	440	404		92	80 - 120	P
Selenium	mg/Kg	88.9	80.5		91	80 - 120	P
Silver	mg/Kg	3.3	3.15		96	80 - 120	P
Sodium	mg/Kg	130	113		87	80 - 120	P
Thallium	mg/Kg	88.9	80.6		91	80 - 120	P
Vanadium	mg/Kg	13.3	12.2		92	80 - 120	P
Zinc	mg/Kg	8.9	8.56		96	80 - 120	P

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166864BS							
Mercury	mg/Kg	0.26	0.24		90	80 - 120	CV

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ICP SERIAL DILUTIONS

SAMPLE NO.

P001-CLAY-CF01-01L

Lab Name: Chemtech Consulting Group **Contract:** PORT06

Lab Code: CHEM **Lb No.:** lb134965 **Lab Sample ID :** Q1421-01L **SDG No.:** Q1422

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

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	6910		8630		25		P
Antimony	3.23	U	16.2	U			P
Arsenic	13.9		18.6		34		P
Barium	53.2		58.1		9		P
Beryllium	1.43		1.98		39		P
Cadmium	0.39	U	1.94	U			P
Calcium	4470		5410		21		P
Chromium	15.4		20.1		31		P
Cobalt	9.63		10.7		12		P
Copper	17.4		23.9		37		P
Iron	65400	OR	80200		23		P
Lead	14.4		16.8		17		P
Magnesium	3020		3850		27		P
Manganese	492		604		23		P
Mercury	0.030		0.10	U	100.0		CV
Nickel	20.5		24.7		21		P
Potassium	3070		3230		5		P
Selenium	1.29	U	6.47	U			P
Silver	0.65	U	3.23	U			P
Sodium	102	J	647	U	100.0		P
Thallium	5.31		7.11	J	34		P
Vanadium	23.4		31.3		34		P
Zinc	72.9		86.0		18		P

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1422 **Sas no.:** Q1422 **Sdg no.:** Q1422

Instrument id number: **Method:** **Run number:** LB134807

Start date: 02/26/2025 **End date:** 02/26/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1052	HG
S0.2	S0.2	1	1054	HG
S2.5	S2.5	1	1058	HG
S5	S5	1	1100	HG
S7.5	S7.5	1	1102	HG
S10	S10	1	1107	HG
ICV19	ICV19	1	1110	HG
ICB19	ICB19	1	1115	HG
CCV25	CCV25	1	1118	HG
CCB25	CCB25	1	1120	HG
CRA	CRA	1	1122	HG
PB166864BL	PB166864BL	1	1132	HG
PB166864BS	PB166864BS	1	1134	HG
CCV26	CCV26	1	1148	HG
CCB26	CCB26	1	1153	HG
Q1421-01DUP	P001-CLAY-CF01-01DUP	1	1207	HG
Q1421-02	P001-CLAY-CF01-01MS	1	1216	HG
Q1421-03	P001-CLAY-CF01-01MSD	1	1221	HG
Q1422-01	B-154-SB01	1	1228	HG
CCV27	CCV27	1	1230	HG
CCB27	CCB27	1	1237	HG
Q1422-02	B-154-SB02	1	1240	HG
Q1421-01L	P001-CLAY-CF01-01L	5	1242	HG
Q1421-01A	P001-CLAY-CF01-01A	1	1244	HG
CCV28	CCV28	1	1246	HG
CCB28	CCB28	1	1249	HG

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1422 **Sas no.:** Q1422 **Sdg no.:** Q1422

Instrument id number: **Method:** **Run number:** LB134965

Start date: 03/10/2025 **End date:** 03/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1117	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	1122	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	1126	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	1130	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	1134	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	1138	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	1148	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	1152	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	1157	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	1201	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	1205	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	1210	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	1227	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	1234	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	1321	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	1325	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	1411	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	1415	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-01DUP	P001-CLAY-CF01-01DUP	1	1441	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-01L	P001-CLAY-CF01-01L	5	1445	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-02	P001-CLAY-CF01-01MS	1	1449	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-03	P001-CLAY-CF01-01MSD	1	1453	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-01A	P001-CLAY-CF01-01A	1	1457	Ag,Sb,Se
CCV04	CCV04	1	1501	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	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1422-01	B-154-SB01	1	1518	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1422-02	B-154-SB02	1	1522	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	1551	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	1555	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166858BL	PB166858BL	1	1633	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB166858BS	PB166858BS	1	1644	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	1648	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	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1421-01DUP	P001-CLAY-CF01-01DUP	2	1700	Fe
Q1421-02	P001-CLAY-CF01-01MS	2	1709	Fe
Q1421-03	P001-CLAY-CF01-01MSD	2	1713	Fe
CCV07	CCV07	1	1739	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	1744	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	1829	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	1833	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	1846	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture **Contract:** PORT06

Lab code: CHEM **Case no.:** Q1422 **Sas no.:** Q1422 **Sdg no.:** Q1422

Instrument id number: **Method:** **Run number:** LB134965

Start date: 03/10/2025 **End date:** 03/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCB09	CCB09	1	1850	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

METAL PREPARATION & INSTRUMENT DATA

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

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Metals
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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1422 **SAS No.:** Q1422

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

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LAB CHRONICLE

OrderID:	Q1422	**OrderDate:**	2/25/2025 10:47:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	H33,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	**B-154-SB01**	**SOIL**			**02/23/25**			**02/25/25**
			Mercury	7471B		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/25/25	03/10/25	
Q1422-02	**B-154-SB02**	**SOIL**			**02/23/25**			**02/25/25**
			Mercury	7471B		02/25/25	02/26/25	
			Metals ICP-TAL	6010D		02/25/25	03/10/25	

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1422 **SAS No.:** Q1422

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166858**						
PB166858BL	PB166858BL	MB	SOLID	02/25/2025	2.27	100.0	100.00
PB166858BS	PB166858BS	LCS	SOLID	02/25/2025	2.25	100.0	100.00
Q1421-01DUP	P001-CLAY-CF01-01DUP	DUP	SOLID	02/25/2025	2.29	100.0	70.30
Q1421-02	P001-CLAY-CF01-01MS	MS	SOLID	02/25/2025	2.04	100.0	70.30
Q1421-03	P001-CLAY-CF01-01MSD	MSD	SOLID	02/25/2025	2.26	100.0	70.30
Q1422-01	B-154-SB01	SAM	SOLID	02/25/2025	2.30	100.0	88.40
Q1422-02	B-154-SB02	SAM	SOLID	02/25/2025	2.26	100.0	87.30

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1422

Contract: PORT06 **Lab Code:** CHEM **Method:**

Case No.: Q1422 **SAS No.:** Q1422

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166864**						
PB166864BL	PB166864BL	MB	SOLID	02/25/2025	0.56	35.0	100.00
PB166864BS	PB166864BS	LCS	SOLID	02/25/2025	0.54	35.0	100.00
Q1421-01DUP	P001-CLAY-CF01-01DUP	DUP	SOLID	02/25/2025	0.51	35.0	70.30
Q1421-02	P001-CLAY-CF01-01MS	MS	SOLID	02/25/2025	0.50	35.0	70.30
Q1421-03	P001-CLAY-CF01-01MSD	MSD	SOLID	02/25/2025	0.52	35.0	70.30
Q1422-01	B-154-SB01	SAM	SOLID	02/25/2025	0.50	35.0	88.40
Q1422-02	B-154-SB02	SAM	SOLID	02/25/2025	0.54	35.0	87.30

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134807

Review By	Mohan	Review On	3/4/2025 8:28:51 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	02/26/25 10:52		Mohan	OK
2	S0.2	S0.2	CAL2	02/26/25 10:54		Mohan	OK
3	S2.5	S2.5	CAL3	02/26/25 10:58		Mohan	OK
4	S5	S5	CAL4	02/26/25 11:00		Mohan	OK
5	S7.5	S7.5	CAL5	02/26/25 11:02		Mohan	OK
6	S10	S10	CAL6	02/26/25 11:07		Mohan	OK
7	ICV19	ICV19	ICV	02/26/25 11:10		Mohan	OK
8	ICB19	ICB19	ICB	02/26/25 11:15		Mohan	OK
9	CCV25	CCV25	CCV	02/26/25 11:18		Mohan	OK
10	CCB25	CCB25	CCB	02/26/25 11:20		Mohan	OK
11	CRA	CRA	CRDL	02/26/25 11:22		Mohan	OK
12	HighStd	HighStd	HIGH STD	02/26/25 11:24		Mohan	OK
13	ChkStd	ChkStd	SAM	02/26/25 11:27		Mohan	OK
14	PB166864BL	PB166864BL	MB	02/26/25 11:32		Mohan	OK
15	PB166864BS	PB166864BS	LCS	02/26/25 11:34		Mohan	OK
16	Q1415-01	B-163-SB01	SAM	02/26/25 11:36		Mohan	OK
17	Q1415-02	B-172-SB01	SAM	02/26/25 11:39		Mohan	OK
18	Q1415-03	B-163-SB02	SAM	02/26/25 11:41		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134807

Review By	Mohan	Review On	3/4/2025 8:28:51 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

19	Q1415-04	B-172-SB02	SAM	02/26/25 11:43		Mohan	OK
20	Q1416-01	OK-01-022425	SAM	02/26/25 11:46		Mohan	OK
21	CCV26	CCV26	CCV	02/26/25 11:48		Mohan	OK
22	CCB26	CCB26	CCB	02/26/25 11:53		Mohan	OK
23	Q1418-01	TR-06-02242025	SAM	02/26/25 11:55		Mohan	OK
24	Q1420-01	TP-1-WC	SAM	02/26/25 11:57		Mohan	OK
25	Q1420-05	TP-2-WC	SAM	02/26/25 12:00		Mohan	OK
26	Q1421-01	P001-CLAY-CF01-01	SAM	02/26/25 12:02		Mohan	OK
27	Q1421-01DUP	P001-CLAY-CF01-01D	DUP	02/26/25 12:07		Mohan	OK
28	Q1421-02	P001-CLAY-CF01-01M	MS	02/26/25 12:16		Mohan	OK
29	Q1421-03	P001-CLAY-CF01-01M	MSD	02/26/25 12:21		Mohan	OK
30	Q1421-07	P001-CLAY-CF01-02	SAM	02/26/25 12:23		Mohan	OK
31	Q1421-09	P001-CLAY-CF02-01	SAM	02/26/25 12:26		Mohan	OK
32	Q1422-01	B-154-SB01	SAM	02/26/25 12:28		Mohan	OK
33	CCV27	CCV27	CCV	02/26/25 12:30		Mohan	OK
34	CCB27	CCB27	CCB	02/26/25 12:37		Mohan	OK
35	Q1422-02	B-154-SB02	SAM	02/26/25 12:40		Mohan	OK
36	Q1421-01L	P001-CLAY-CF01-01L	SD	02/26/25 12:42		Mohan	OK
37	Q1421-01A	P001-CLAY-CF01-01A	PS	02/26/25 12:44		Mohan	OK
38	CCV28	CCV28	CCV	02/26/25 12:46		Mohan	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB134807

Review By	Mohan	Review On	3/4/2025 8:28:51 AM
Supervise By	jaswal	Supervise On	3/4/2025 8:55:24 AM

STD. NAME	STD REF.#
ICAL Standard	MP84620,MP84621,MP84622,MP84623,MP84624,MP84625
ICV Standard	MP84626
CCV Standard	MP84628
ICSA Standard	
CRI Standard	MP84630
LCS Standard	
Chk Standard	MP84627,MP84629,MP84631,MP84634

39	CCB28	CCB28	CCB	02/26/25 12:49		Mohan	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	03/10/25 11:17		Kareem	OK
2	S1	S1	CAL2	03/10/25 11:22		Kareem	OK
3	S2	S2	CAL3	03/10/25 11:26		Kareem	OK
4	S3	S3	CAL4	03/10/25 11:30		Kareem	OK
5	S4	S4	CAL5	03/10/25 11:34		Kareem	OK
6	S5	S5	CAL6	03/10/25 11:38		Kareem	OK
7	ICV01	ICV01	ICV	03/10/25 11:48		Kareem	OK
8	LLICV01	LLICV01	LLICV	03/10/25 11:52		Kareem	OK
9	ICB01	ICB01	ICB	03/10/25 11:57		Kareem	OK
10	CRI01	CRI01	CRDL	03/10/25 12:01		Kareem	OK
11	ICSA01	ICSA01	ICSA	03/10/25 12:05		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	03/10/25 12:10		Kareem	OK
13	ICSADL	ICSADL	ICSA	03/10/25 12:14		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	03/10/25 12:18		Kareem	OK
15	CCV01	CCV01	CCV	03/10/25 12:27		Kareem	OK
16	CCB01	CCB01	CCB	03/10/25 12:34		Kareem	OK
17	Q1489-16MSD	TP-4MSD	MSD	03/10/25 12:38		Kareem	OK
18	Q1489-16A	TP-4A	PS	03/10/25 12:42		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

19	Q1478-13	IDW-SO-COMP-0228	SAM	03/10/25 12:46		Kareem	OK
20	Q1481-01	WC-K1311	SAM	03/10/25 12:51		Kareem	OK
21	Q1489-12	TP-3	SAM	03/10/25 12:55		Kareem	OK
22	Q1489-16	TP-4	SAM	03/10/25 12:59		Kareem	OK
23	Q1489-16DUP	TP-4DUP	DUP	03/10/25 13:04		Kareem	OK
24	Q1489-16L	TP-4L	SD	03/10/25 13:08		Kareem	OK
25	Q1489-16MS	TP-4MS	MS	03/10/25 13:12		Kareem	OK
26	Q1415-05	FB02222025	SAM	03/10/25 13:17		Kareem	OK
27	CCV02	CCV02	CCV	03/10/25 13:21		Kareem	OK
28	CCB02	CCB02	CCB	03/10/25 13:25		Kareem	OK
29	Q1415-05DUP	FB02222025DUP	DUP	03/10/25 13:29		Kareem	OK
30	Q1415-05L	FB02222025L	SD	03/10/25 13:34		Kareem	OK
31	Q1415-05MS	FB02222025MS	MS	03/10/25 13:38		Kareem	OK
32	Q1415-05MSD	FB02222025MSD	MSD	03/10/25 13:42		Kareem	OK
33	Q1415-05A	FB02222025A	PS	03/10/25 13:46		Kareem	OK
34	Q1415-06	B-173-GW01	SAM	03/10/25 13:50		Kareem	OK
35	Q1421-04	P001-CLAY-CF01-01	SAM	03/10/25 13:55	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
36	Q1421-04DUP	P001-CLAY-CF01-01D	DUP	03/10/25 13:59	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
37	Q1421-04L	P001-CLAY-CF01-01L	SD	03/10/25 14:03	MS/MSD fail for more than 50% parameters	Kareem	Not Ok

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

38	Q1421-05	P001-CLAY-CF01-01	MS	03/10/25 14:07	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
39	CCV03	CCV03	CCV	03/10/25 14:11		Kareem	OK
40	CCB03	CCB03	CCB	03/10/25 14:15		Kareem	OK
41	Q1421-06	P001-CLAY-CF01-01	MSD	03/10/25 14:20	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
42	Q1421-04A	P001-CLAY-CF01-01A	PS	03/10/25 14:24	MS/MSD fail for more than 50% parameters	Kareem	Not Ok
43	Q1421-08	P001-CLAY-CF01-02	SAM	03/10/25 14:28		Kareem	OK
44	Q1421-10	P001-CLAY-CF02-01	SAM	03/10/25 14:32		Kareem	OK
45	Q1421-01	P001-CLAY-CF01-01	SAM	03/10/25 14:36	Fe high	Kareem	Dilution
46	Q1421-01DUP	P001-CLAY-CF01-01D	DUP	03/10/25 14:41	Fe high	Kareem	Dilution
47	Q1421-01L	P001-CLAY-CF01-01L	SD	03/10/25 14:45		Kareem	OK
48	Q1421-02	P001-CLAY-CF01-01	MS	03/10/25 14:49	Fe high	Kareem	Dilution
49	Q1421-03	P001-CLAY-CF01-01	MSD	03/10/25 14:53	Fe high	Kareem	Dilution
50	Q1421-01A	P001-CLAY-CF01-01A	PS	03/10/25 14:57		Kareem	OK
51	CCV04	CCV04	CCV	03/10/25 15:01		Kareem	OK
52	CCB04	CCB04	CCB	03/10/25 15:05		Kareem	OK
53	Q1421-07	P001-CLAY-CF01-02	SAM	03/10/25 15:10	Fe high, Ag (oversaturated)	Kareem	Dilution
54	Q1421-09	P001-CLAY-CF02-01	SAM	03/10/25 15:14		Kareem	OK
55	Q1422-01	B-154-SB01	SAM	03/10/25 15:18		Kareem	OK
56	Q1422-02	B-154-SB02	SAM	03/10/25 15:22		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

57	Q1429-01	OUTFALL-DSN-001	SAM	03/10/25 15:26		Kareem	OK
58	Q1429-01DUP	OUTFALL-DSN-001D	DUP	03/10/25 15:31		Kareem	OK
59	Q1429-01L	OUTFALL-DSN-001L	SD	03/10/25 15:35		Kareem	OK
60	Q1429-01MS	OUTFALL-DSN-001M	MS	03/10/25 15:39		Kareem	OK
61	Q1429-01MSD	OUTFALL-DSN-001M	MSD	03/10/25 15:43		Kareem	OK
62	Q1429-01A	OUTFALL-DSN-001A	PS	03/10/25 15:47		Kareem	OK
63	CCV05	CCV05	CCV	03/10/25 15:51		Kareem	OK
64	CCB05	CCB05	CCB	03/10/25 15:55		Kareem	OK
65	Q1429-02	OUTFALL-DSN-002	SAM	03/10/25 16:00		Kareem	OK
66	Q1415-02DL	B-172-SB01DL	SAM	03/10/25 16:04	2x for Mn	Kareem	Confirms
67	PB166968TB	PB166968TB	MB	03/10/25 16:08		Kareem	OK
68	PB166990BL	PB166990BL	MB	03/10/25 16:12		Kareem	OK
69	PB166990BS	PB166990BS	LCS	03/10/25 16:17		Kareem	OK
70	PB166878TB	PB166878TB	MB	03/10/25 16:21		Kareem	OK
71	PB166878BL	PB166878BL	MB	03/10/25 16:25		Kareem	OK
72	PB166878BS	PB166878BS	LCS	03/10/25 16:29		Kareem	OK
73	PB166858BL	PB166858BL	MB	03/10/25 16:33		Kareem	OK
74	PB166858BS	PB166858BS	LCS	03/10/25 16:44		Kareem	OK
75	CCV06	CCV06	CCV	03/10/25 16:48		Kareem	OK
76	CCB06	CCB06	CCB	03/10/25 16:52		Kareem	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

77	Q1421-01DL	P001-CLAY-CF01-01D	SAM	03/10/25 16:56	2x for Fe	Kareem	Confirms
78	Q1421-01DUPDL	P001-CLAY-CF01-01D	DUP	03/10/25 17:00	2x for Fe	Kareem	Confirms
79	Q1421-01LDL	P001-CLAY-CF01-01L	SD	03/10/25 17:05	NOT REQUIRED	Kareem	Not Ok
80	Q1421-02DL	P001-CLAY-CF01-01M	MS	03/10/25 17:09	2x for Fe	Kareem	Confirms
81	Q1421-03DL	P001-CLAY-CF01-01M	MSD	03/10/25 17:13	2x for Fe	Kareem	Confirms
82	Q1421-01ADL	P001-CLAY-CF01-01A	PS	03/10/25 17:17	NOT REQUIRED	Kareem	Not Ok
83	Q1421-07DL	P001-CLAY-CF01-02D	SAM	03/10/25 17:21	2x for Fe,Ag	Kareem	Confirms
84	Q1421-09DL	P001-CLAY-CF02-01D	SAM	03/10/25 17:26	NOT USE	Kareem	Not Ok
85	PB166927TB	PB166927TB	MB	03/10/25 17:30		Kareem	OK
86	PB166859BL	PB166859BL	MB	03/10/25 17:34		Kareem	OK
87	CCV07	CCV07	CCV	03/10/25 17:39		Kareem	OK
88	CCB07	CCB07	CCB	03/10/25 17:44		Kareem	OK
89	PB166859BS	PB166859BS	LCS	03/10/25 17:48		Kareem	OK
90	Q1524-01	72-11930-343-COMP	SAM	03/10/25 17:52		Kareem	OK
91	Q1524-01DUP	72-11930-343-COMPD	DUP	03/10/25 17:56		Kareem	OK
92	Q1524-01L	72-11930-343-COMPL	SD	03/10/25 18:00		Kareem	OK
93	Q1524-01MS	72-11930-343-COMPM	MS	03/10/25 18:04		Kareem	OK
94	Q1524-01MSD	72-11930-343-COMPM	MSD	03/10/25 18:08		Kareem	OK
95	Q1524-01A	72-11930-343-COMPA	PS	03/10/25 18:12		Kareem	OK
96	Q1524-02	VNJ-241	SAM	03/10/25 18:16		Kareem	OK

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

Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB134965

Review By	jaswal	Review On	3/11/2025 8:55:53 AM
Supervise By	kareem	Supervise On	3/11/2025 9:00:40 AM

STD. NAME	STD REF.#
ICAL Standard	MP84636,MP84637,MP84638,MP84639,MP84640,MP84642
ICV Standard	MP84643
CCV Standard	MP84646
ICSA Standard	MP84644,MP84721
CRI Standard	MP84642
LCS Standard	
Chk Standard	MP84649,MP84650

97	PB167039BL	PB167039BL	MB	03/10/25 18:20		Kareem	OK
98	PB167039BS	PB167039BS	LCS	03/10/25 18:25		Kareem	OK
99	CCV08	CCV08	CCV	03/10/25 18:29		Kareem	OK
100	CCB08	CCB08	CCB	03/10/25 18:33		Kareem	OK
101	LR1	LR1	HIGH STD	03/10/25 18:37		Kareem	OK
102	LR2	LR2	HIGH STD	03/10/25 18:42		Kareem	OK
103	CCV09	CCV09	CCV	03/10/25 18:46		Kareem	OK
104	CCB09	CCB09	CCB	03/10/25 18:50		Kareem	OK

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166858

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pippete ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : N/A

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 02/25/2025 **Time :** 10:05 **Temp :** 96 °C

End Digest Date: 02/25/2025 **Time :** 12:10 **Temp :** 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: SLG.

Supervisor Signature: JP

Temp : 1. 96°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	1.00	M6002
LFS-2	1.00	M6011
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
1:1 HNO3	10.00	MP84041
Conc. HNO3	5.00	M6126
30% H2O2	3.00	M6125
Conc. HCL	10.00	M6121
PTFE Boiling Stones	N/A	M5585
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK # 2 CELL 35 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/25/25 13:20	SLG. met dig	JB / MA DIG
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Metals Preparation Sheet

PB166858

Lab Sample ID	Client Sample ID	pH	Initial Weight (g)	Final Vol (ml)	Color Before	Color After	Texture	Artifact	Comment	Prep Pos
PB166858BL	PBS858	N/A	2.27	100	Colorless	Colorless	Fine	N/A	N/A	1
PB166858BS	LCS858	N/A	2.25	100	Colorless	Colorless	Fine	N/A	M6002,M6011	2
Q1416-01	OK-01-022425	N/A	2.43	100	Brown	Yellow	Medium	N/A	N/A	3
Q1418-01	TR-06-02242025	N/A	2.13	100	Brown	Yellow	Medium	N/A	N/A	4
Q1420-01	TP-1-WC	N/A	2.21	100	Brown	Yellow	Medium	N/A	N/A	5
Q1420-05	TP-2-WC	N/A	2.27	100	Brown	Yellow	Medium	N/A	N/A	6
Q1421-01	P001-CLAY-CF01-01	N/A	2.20	100	Black	Yellow	Medium	N/A	N/A	7
Q1421-01DUP	P001-CLAY-CF01-01DUP	N/A	2.29	100	Black	Yellow	Medium	N/A	N/A	8
Q1421-02	Q1421-01MS	N/A	2.04	100	Black	Yellow	Medium	N/A	M6002,M6011	9
Q1421-03	Q1421-01MSD	N/A	2.26	100	Black	Yellow	Medium	N/A	M6002,M6011	10
Q1421-07	P001-CLAY-CF01-02	N/A	2.31	100	Black	Yellow	Medium	N/A	N/A	11
Q1421-09	P001-CLAY-CF02-01	N/A	2.22	100	Black	Yellow	Medium	N/A	N/A	12
Q1422-01	B-154-SB01	N/A	2.30	100	Brown	Yellow	Medium	N/A	N/A	13
Q1422-02	B-154-SB02	N/A	2.26	100	Brown	Yellow	Medium	N/A	N/A	14

A B C D E F G H I J

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166864

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pippete ID: HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 02/25/2025 **Time :** 13:30 **Temp :** 95 °C

End Digest Date: 02/25/2025 **Time :** 14:00 **Temp :** 94 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: JV

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP84626
CCV	30mL	MP84628
CRA	30mL	MP84630
Blank Spike	0.48mL	MP84619
Matrix Spike	0.48mL	MP84619

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	1.5mL	MP84632
KMnO4 (5%)	4.5mL	MP84564
Hydroxylamine HCL (12%)	2.0mL	MP84565
PTFE Boiling Stones	----------	M4583
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP84620
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP84621
2.5 ppb	S2.5	30mL	MP84622
5.0 ppb	S5.0	30mL	MP84623
7.5 ppb	S7.5	30mL	MP84624
10.0 ppb	S10.0	30mL	MP84625
ICV	ICV	30mL	MP84626
ICB	ICB	30mL	MP84627
CCV	CCV	30mL	MP84628
CCB	CCB	30mL	MP84629
CRI	CRI	30mL	MP84630
CHK STD	CHK STD	30mL	MP84631

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25 @ 14:40	MB- Dig. Lab	MB- Metal Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Mercury Preparation Sheet

PB166864

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
PB166864BL	PBS864	0.56	35	NA	N/A	N/A
PB166864BS	LCS864	0.54	35	NA	MP84619	N/A
Q1415-01	B-163-SB01	0.50	35	NA	N/A	N/A
Q1415-02	B-172-SB01	0.51	35	NA	N/A	N/A
Q1415-03	B-163-SB02	0.52	35	NA	N/A	N/A
Q1415-04	B-172-SB02	0.51	35	NA	N/A	N/A
Q1416-01	OK-01-022425	0.53	35	NA	N/A	N/A
Q1418-01	TR-06-02242025	0.50	35	NA	N/A	N/A
Q1420-01	TP-1-WC	0.50	35	NA	N/A	N/A
Q1420-05	TP-2-WC	0.54	35	NA	N/A	N/A
Q1421-01	P001-CLAY-CF01-01	0.50	35	NA	N/A	N/A
Q1421-01DUP	P001-CLAY-CF01-01DUP	0.51	35	NA	N/A	N/A
Q1421-02	Q1421-01MS	0.50	35	NA	MP84619	N/A
Q1421-03	Q1421-01MSD	0.52	35	NA	MP84619	N/A
Q1421-07	P001-CLAY-CF01-02	0.52	35	NA	N/A	N/A
Q1421-09	P001-CLAY-CF02-01	0.54	35	NA	N/A	N/A
Q1422-01	B-154-SB01	0.50	35	NA	N/A	N/A
Q1422-02	B-154-SB02	0.54	35	NA	N/A	N/A

A B C D E F G H I J