



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

Hit Summary Sheet
SW-846

SDG No.: Q1744 **Order ID:** Q1744
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-158-SB01								
Q1744-02	B-158-SB01	TCLP	Barium	778		62.8	500	ug/L
Q1744-02	B-158-SB01	TCLP	Chromium	11.3	J	6.60	50.0	ug/L
Client ID : B-158-SB02								
Q1744-04	B-158-SB02	TCLP	Barium	2170		62.8	500	ug/L
Q1744-04	B-158-SB02	TCLP	Lead	36.9	J	35.1	60.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-02	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7440-39-3	Barium	778	N	1	62.8	500	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7440-47-3	Chromium	11.3	J	1	6.60	50.0	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7439-92-1	Lead	35.1	U	1	35.1	60.0	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/10/25 09:45	04/10/25 13:36	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	04/09/25 12:30	04/10/25 16:47	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP-FULL			

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-04	Matrix:	TCLP
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	34.8	U	1	34.8	100	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7440-39-3	Barium	2170	N	1	62.8	500	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7440-43-9	Cadmium	0.94	U	1	0.94	30.0	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7440-47-3	Chromium	6.60	U	1	6.60	50.0	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7439-92-1	Lead	36.9	J	1	35.1	60.0	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	04/10/25 09:45	04/10/25 13:43	SW7470A	
7782-49-2	Selenium	58.8	U	1	58.8	100	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050
7440-22-4	Silver	5.80	U	1	5.80	50.0	ug/L	04/09/25 12:30	04/10/25 16:52	SW6010	SW3050

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	TCLP-FULL			

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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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	Portal Partners Tri-Venture				SDG No.:	Q1744			
Contract:	PORT06	Lab Code:	CHEM	Case No.:	Q1744	SAS No.:	Q1744		
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB83	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	13:03	LB135365

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB53	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	13:08	LB135365
CCB54	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	13:41	LB135365
CCB55	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	14:08	LB135365
CCB56	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	14:38	LB135365
CCB57	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	15:08	LB135365
CCB58	Mercury	0.20	+/-0.20	U	0.20	CV	04/10/2025	15:28	LB135365

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	10:29	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	10:29	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	10:29	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	10:29	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	10:29	LB135373

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: Q1744							
Contract: PORT06	Lab Code: CHEM	Case No.: Q1744	SAS No.: Q1744						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	11:21	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	11:21	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	11:21	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	11:21	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	11:21	LB135373
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	12:12	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	12:12	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	12:12	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	12:12	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	12:12	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	12:12	LB135373
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:04	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:04	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:04	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:04	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:04	LB135373
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	13:55	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	13:55	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	13:55	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	13:55	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	13:55	LB135373
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	14:49	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	14:49	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	14:49	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	14:49	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	14:49	LB135373
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	15:48	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	15:48	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	15:48	LB135373

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	15:48	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	15:48	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	15:48	LB135373
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	17:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	17:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	17:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	17:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	17:00	LB135373
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:00	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:00	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:00	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:00	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:00	LB135373
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Barium	100	+/-100	U	100	P	04/10/2025	18:23	LB135373
	Cadmium	6.00	+/-6.00	U	6.00	P	04/10/2025	18:23	LB135373
	Chromium	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373
	Lead	12.0	+/-12.0	U	12.0	P	04/10/2025	18:23	LB135373
	Selenium	20.0	+/-20.0	U	20.0	P	04/10/2025	18:23	LB135373
	Silver	10.0	+/-10.0	U	10.0	P	04/10/2025	18:23	LB135373

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	14:05	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	14:05	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:05	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	14:05	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	14:05	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	14:05	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	14:05	LB135424

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: Q1744							
Contract: PORT06	Lab Code: CHEM	Case No.: Q1744	SAS No.: Q1744						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	14:35	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	14:35	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	14:35	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	14:35	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	14:35	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	14:35	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	14:35	LB135424
CCB02	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	15:26	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	15:26	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	15:26	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	15:26	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	15:26	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	15:26	LB135424
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	16:32	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	16:32	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	16:32	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	16:32	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	16:32	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	16:32	LB135424
CCB04	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	17:22	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	17:22	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	17:22	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	17:22	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	17:22	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	17:22	LB135424
CCB05	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	18:20	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	18:20	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	18:20	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	18:20	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	18:20	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	18:20	LB135424
CCB06	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	19:11	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	19:11	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	19:11	LB135424

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture		SDG No.: Q1744							
Contract: PORT06	Lab Code: CHEM	Case No.: Q1744	SAS No.: Q1744						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	19:11	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	19:11	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	19:11	LB135424
CCB07	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	20:01	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:01	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	20:01	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	20:01	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	20:01	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	20:01	LB135424
CCB08	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	20:52	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	20:52	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	20:52	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	20:52	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	20:52	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	20:52	LB135424
CCB09	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	21:42	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	21:42	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	21:42	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	21:42	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	21:42	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	21:42	LB135424
CCB10	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	22:32	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:32	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	22:32	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	22:32	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	22:32	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	22:32	LB135424
CCB11	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424
	Barium	100	+/-100	U	100	P	04/14/2025	22:44	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	22:44	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	22:44	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	22:44	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	22:44	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	22:44	LB135424
CCB12	Arsenic	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB12	Barium	100	+/-100	U	100	P	04/14/2025	23:11	LB135424
	Cadmium	6.00	+/-6.00	U	6.00	P	04/14/2025	23:11	LB135424
	Chromium	10.0	+/-10.0	U	10.0	P	04/14/2025	23:11	LB135424
	Lead	12.0	+/-12.0	U	12.0	P	04/14/2025	23:11	LB135424
	Selenium	20.0	+/-20.0	U	20.0	P	04/14/2025	23:11	LB135424
	Silver	10.0	+/-10.0	U	10.0	P	04/14/2025	23:11	LB135424

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167517TB		WATER		Batch Number:	PB167539		Prep Date:	04/10/2025	
	Mercury	2.00	<2.00	U	2.00	CV	04/10/2025	15:12	LB135365
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167539BL		WATER		Batch Number:	PB167539		Prep Date:	04/10/2025	
	Mercury	0.20	<0.20	U	0.20	CV	04/10/2025	13:17	LB135365

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167517TB		WATER		Batch Number:	PB167533		Prep Date:	04/09/2025	
	Arsenic	100	<100	U	100	P	04/10/2025	16:43	LB135373
	Barium	500	<500	U	500	P	04/10/2025	16:43	LB135373
	Cadmium	30.0	<30.0	U	30.0	P	04/10/2025	16:43	LB135373
	Chromium	50.0	<50.0	U	50.0	P	04/10/2025	16:43	LB135373
	Lead	60.0	<60.0	U	60.0	P	04/10/2025	16:43	LB135373
	Selenium	100	<100	U	100	P	04/10/2025	16:43	LB135373
	Silver	50.0	<50.0	U	50.0	P	04/10/2025	16:43	LB135373
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167533BL		WATER		Batch Number:	PB167533		Prep Date:	04/09/2025	
	Arsenic	100	<100	U	100	P	04/14/2025	15:56	LB135424
	Barium	500	<500	U	500	P	04/14/2025	15:56	LB135424
	Cadmium	30.0	<30.0	U	30.0	P	04/14/2025	15:56	LB135424
	Chromium	50.0	<50.0	U	50.0	P	04/14/2025	15:56	LB135424
	Lead	60.0	<60.0	U	60.0	P	04/14/2025	15:56	LB135424
	Selenium	100	<100	U	100	P	04/14/2025	15:56	LB135424
	Silver	50.0	<50.0	U	50.0	P	04/14/2025	15:56	LB135424



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
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
ICV83	Mercury	4.06	4.0	102	90 - 110	CV	04/10/2025	13:01	LB135365

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
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
CCV53	Mercury	4.98	5.0	100	90 - 110	CV	04/10/2025	13:06	LB135365
CCV54	Mercury	4.95	5.0	99	90 - 110	CV	04/10/2025	13:38	LB135365
CCV55	Mercury	4.88	5.0	98	90 - 110	CV	04/10/2025	14:06	LB135365
CCV56	Mercury	4.94	5.0	99	90 - 110	CV	04/10/2025	14:36	LB135365
CCV57	Mercury	4.81	5.0	96	90 - 110	CV	04/10/2025	15:06	LB135365
CCV58	Mercury	5.01	5.0	100	90 - 110	CV	04/10/2025	15:26	LB135365

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
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	Arsenic	985	1000	98	90 - 110	P	04/10/2025	10:09	LB135373
	Barium	534	520	103	90 - 110	P	04/10/2025	10:09	LB135373
	Cadmium	483	510	95	90 - 110	P	04/10/2025	10:09	LB135373
	Chromium	505	520	97	90 - 110	P	04/10/2025	10:09	LB135373
	Lead	951	1000	95	90 - 110	P	04/10/2025	10:09	LB135373
	Selenium	1030	1000	103	90 - 110	P	04/10/2025	10:09	LB135373
	Silver	245	250	98	90 - 110	P	04/10/2025	10:09	LB135373

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
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	Arsenic	18.5	20.0	92	80 - 120	P	04/10/2025	10:25	LB135373
	Barium	85.5	100	86	80 - 120	P	04/10/2025	10:25	LB135373
	Cadmium	5.62	6.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Chromium	9.56	10.0	96	80 - 120	P	04/10/2025	10:25	LB135373
	Lead	9.94	12.0	83	80 - 120	P	04/10/2025	10:25	LB135373
	Selenium	18.9	20.0	94	80 - 120	P	04/10/2025	10:25	LB135373
	Silver	10.5	10.0	104	80 - 120	P	04/10/2025	10:25	LB135373

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	Arsenic	4750	5000	95	90 - 110	P	04/10/2025	11:00	LB135373
	Barium	9770	10000	98	90 - 110	P	04/10/2025	11:00	LB135373
	Cadmium	2340	2500	94	90 - 110	P	04/10/2025	11:00	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	11:00	LB135373
	Lead	5240	5000	105	90 - 110	P	04/10/2025	11:00	LB135373
	Selenium	4820	5000	96	90 - 110	P	04/10/2025	11:00	LB135373
	Silver	1250	1250	100	90 - 110	P	04/10/2025	11:00	LB135373
CCV02	Arsenic	4800	5000	96	90 - 110	P	04/10/2025	12:08	LB135373
	Barium	9680	10000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	12:08	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:08	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	12:08	LB135373
	Selenium	4860	5000	97	90 - 110	P	04/10/2025	12:08	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	12:08	LB135373
CCV03	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	12:59	LB135373
	Barium	10100	10000	101	90 - 110	P	04/10/2025	12:59	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	12:59	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	12:59	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	12:59	LB135373
	Selenium	4990	5000	100	90 - 110	P	04/10/2025	12:59	LB135373
	Silver	1270	1250	101	90 - 110	P	04/10/2025	12:59	LB135373
CCV04	Arsenic	4880	5000	98	90 - 110	P	04/10/2025	13:51	LB135373
	Barium	9600	10000	96	90 - 110	P	04/10/2025	13:51	LB135373
	Cadmium	2380	2500	95	90 - 110	P	04/10/2025	13:51	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	13:51	LB135373
	Lead	4760	5000	95	90 - 110	P	04/10/2025	13:51	LB135373
	Selenium	4960	5000	99	90 - 110	P	04/10/2025	13:51	LB135373
	Silver	1270	1250	102	90 - 110	P	04/10/2025	13:51	LB135373
CCV05	Arsenic	4820	5000	96	90 - 110	P	04/10/2025	14:44	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	14:44	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	14:44	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	14:44	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	14:44	LB135373
	Selenium	4910	5000	98	90 - 110	P	04/10/2025	14:44	LB135373

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: Q1744
Contract: PORT06 Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744
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	Silver	1270	1250	101	90 - 110	P	04/10/2025	14:44	LB135373
CCV06	Arsenic	4780	5000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Barium	9640	10000	96	90 - 110	P	04/10/2025	15:44	LB135373
	Cadmium	2340	2500	93	90 - 110	P	04/10/2025	15:44	LB135373
	Chromium	1010	1000	101	90 - 110	P	04/10/2025	15:44	LB135373
	Lead	4690	5000	94	90 - 110	P	04/10/2025	15:44	LB135373
	Selenium	4850	5000	97	90 - 110	P	04/10/2025	15:44	LB135373
	Silver	1260	1250	100	90 - 110	P	04/10/2025	15:44	LB135373
CCV07	Arsenic	4920	5000	98	90 - 110	P	04/10/2025	16:56	LB135373
	Barium	9570	10000	96	90 - 110	P	04/10/2025	16:56	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	16:56	LB135373
	Chromium	1020	1000	102	90 - 110	P	04/10/2025	16:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	16:56	LB135373
	Selenium	5020	5000	100	90 - 110	P	04/10/2025	16:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	16:56	LB135373
CCV08	Arsenic	4890	5000	98	90 - 110	P	04/10/2025	17:56	LB135373
	Barium	9470	10000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Cadmium	2360	2500	94	90 - 110	P	04/10/2025	17:56	LB135373
	Chromium	1030	1000	103	90 - 110	P	04/10/2025	17:56	LB135373
	Lead	4740	5000	95	90 - 110	P	04/10/2025	17:56	LB135373
	Selenium	4980	5000	100	90 - 110	P	04/10/2025	17:56	LB135373
	Silver	1260	1250	101	90 - 110	P	04/10/2025	17:56	LB135373
CCV09	Arsenic	4850	5000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Barium	9730	10000	97	90 - 110	P	04/10/2025	18:19	LB135373
	Cadmium	2350	2500	94	90 - 110	P	04/10/2025	18:19	LB135373
	Chromium	1000	1000	100	90 - 110	P	04/10/2025	18:19	LB135373
	Lead	4720	5000	94	90 - 110	P	04/10/2025	18:19	LB135373
	Selenium	4930	5000	99	90 - 110	P	04/10/2025	18:19	LB135373
	Silver	1240	1250	99	90 - 110	P	04/10/2025	18:19	LB135373

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
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	Arsenic	1060	1000	106	90 - 110	P	04/14/2025	13:56	LB135424
	Barium	534	520	103	90 - 110	P	04/14/2025	13:56	LB135424
	Cadmium	507	510	99	90 - 110	P	04/14/2025	13:56	LB135424
	Chromium	507	520	98	90 - 110	P	04/14/2025	13:56	LB135424
	Lead	1000	1000	100	90 - 110	P	04/14/2025	13:56	LB135424
	Selenium	1050	1000	105	90 - 110	P	04/14/2025	13:56	LB135424
	Silver	246	250	98	90 - 110	P	04/14/2025	13:56	LB135424

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q1744

Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

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	Arsenic	22.8	20.0	114	80 - 120	P	04/14/2025	14:01	LB135424
	Barium	96.1	100	96	80 - 120	P	04/14/2025	14:01	LB135424
	Cadmium	6.12	6.0	102	80 - 120	P	04/14/2025	14:01	LB135424
	Chromium	9.81	10.0	98	80 - 120	P	04/14/2025	14:01	LB135424
	Lead	12.4	12.0	103	80 - 120	P	04/14/2025	14:01	LB135424
	Selenium	19.0	20.0	95	80 - 120	P	04/14/2025	14:01	LB135424
	Silver	10.0	10.0	100	80 - 120	P	04/14/2025	14:01	LB135424

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: Q1744
Contract: PORT06 Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744
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	Arsenic	4910	5000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Barium	9640	10000	96	90 - 110	P	04/14/2025	14:31	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	14:31	LB135424
	Chromium	1000	1000	100	90 - 110	P	04/14/2025	14:31	LB135424
	Lead	4940	5000	99	90 - 110	P	04/14/2025	14:31	LB135424
	Selenium	4930	5000	98	90 - 110	P	04/14/2025	14:31	LB135424
	Silver	1250	1250	100	90 - 110	P	04/14/2025	14:31	LB135424
CCV02	Arsenic	4930	5000	99	90 - 110	P	04/14/2025	15:22	LB135424
	Barium	9580	10000	96	90 - 110	P	04/14/2025	15:22	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	15:22	LB135424
	Chromium	995	1000	100	90 - 110	P	04/14/2025	15:22	LB135424
	Lead	4930	5000	98	90 - 110	P	04/14/2025	15:22	LB135424
	Selenium	4970	5000	99	90 - 110	P	04/14/2025	15:22	LB135424
	Silver	1230	1250	98	90 - 110	P	04/14/2025	15:22	LB135424
CCV03	Arsenic	4890	5000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Barium	9870	10000	99	90 - 110	P	04/14/2025	16:28	LB135424
	Cadmium	2470	2500	99	90 - 110	P	04/14/2025	16:28	LB135424
	Chromium	983	1000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Lead	4930	5000	99	90 - 110	P	04/14/2025	16:28	LB135424
	Selenium	4900	5000	98	90 - 110	P	04/14/2025	16:28	LB135424
	Silver	1230	1250	99	90 - 110	P	04/14/2025	16:28	LB135424
CCV04	Arsenic	4920	5000	98	90 - 110	P	04/14/2025	17:18	LB135424
	Barium	9580	10000	96	90 - 110	P	04/14/2025	17:18	LB135424
	Cadmium	2480	2500	99	90 - 110	P	04/14/2025	17:18	LB135424
	Chromium	1000	1000	100	90 - 110	P	04/14/2025	17:18	LB135424
	Lead	4940	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Selenium	4950	5000	99	90 - 110	P	04/14/2025	17:18	LB135424
	Silver	1240	1250	99	90 - 110	P	04/14/2025	17:18	LB135424
CCV05	Arsenic	4860	5000	97	90 - 110	P	04/14/2025	18:16	LB135424
	Barium	9570	10000	96	90 - 110	P	04/14/2025	18:16	LB135424
	Cadmium	2470	2500	99	90 - 110	P	04/14/2025	18:16	LB135424
	Chromium	986	1000	99	90 - 110	P	04/14/2025	18:16	LB135424
	Lead	4920	5000	98	90 - 110	P	04/14/2025	18:16	LB135424
	Selenium	4910	5000	98	90 - 110	P	04/14/2025	18:16	LB135424

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: Q1744
 Contract: PORT06 Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744
 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	Silver	1230	1250	98	90 - 110	P	04/14/2025	18:16	LB135424
CCV06	Arsenic	4780	5000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Barium	9740	10000	97	90 - 110	P	04/14/2025	19:07	LB135424
	Cadmium	2460	2500	98	90 - 110	P	04/14/2025	19:07	LB135424
	Chromium	957	1000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Lead	4870	5000	98	90 - 110	P	04/14/2025	19:07	LB135424
	Selenium	4820	5000	96	90 - 110	P	04/14/2025	19:07	LB135424
	Silver	1190	1250	95	90 - 110	P	04/14/2025	19:07	LB135424
CCV07	Arsenic	4740	5000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Barium	9610	10000	96	90 - 110	P	04/14/2025	19:57	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	19:57	LB135424
	Chromium	974	1000	97	90 - 110	P	04/14/2025	19:57	LB135424
	Lead	4820	5000	96	90 - 110	P	04/14/2025	19:57	LB135424
	Selenium	4770	5000	95	90 - 110	P	04/14/2025	19:57	LB135424
	Silver	1200	1250	96	90 - 110	P	04/14/2025	19:57	LB135424
CCV08	Arsenic	4810	5000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Barium	9830	10000	98	90 - 110	P	04/14/2025	20:48	LB135424
	Cadmium	2440	2500	98	90 - 110	P	04/14/2025	20:48	LB135424
	Chromium	955	1000	96	90 - 110	P	04/14/2025	20:48	LB135424
	Lead	4850	5000	97	90 - 110	P	04/14/2025	20:48	LB135424
	Selenium	4860	5000	97	90 - 110	P	04/14/2025	20:48	LB135424
	Silver	1190	1250	96	90 - 110	P	04/14/2025	20:48	LB135424
CCV09	Arsenic	4770	5000	95	90 - 110	P	04/14/2025	21:38	LB135424
	Barium	9610	10000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	21:38	LB135424
	Chromium	973	1000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Lead	4840	5000	97	90 - 110	P	04/14/2025	21:38	LB135424
	Selenium	4800	5000	96	90 - 110	P	04/14/2025	21:38	LB135424
	Silver	1220	1250	97	90 - 110	P	04/14/2025	21:38	LB135424
CCV10	Arsenic	4830	5000	97	90 - 110	P	04/14/2025	22:28	LB135424
	Barium	9670	10000	97	90 - 110	P	04/14/2025	22:28	LB135424
	Cadmium	2450	2500	98	90 - 110	P	04/14/2025	22:28	LB135424
	Chromium	977	1000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Lead	4870	5000	97	90 - 110	P	04/14/2025	22:28	LB135424

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture SDG No.: Q1744
Contract: PORT06 Lab Code: CHEM Case No.: Q1744 SAS No.: Q1744
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Selenium	4880	5000	98	90 - 110	P	04/14/2025	22:28	LB135424
	Silver	1220	1250	98	90 - 110	P	04/14/2025	22:28	LB135424
CCV11	Arsenic	4800	5000	96	90 - 110	P	04/14/2025	22:40	LB135424
	Barium	9830	10000	98	90 - 110	P	04/14/2025	22:40	LB135424
	Cadmium	2450	2500	98	90 - 110	P	04/14/2025	22:40	LB135424
	Chromium	958	1000	96	90 - 110	P	04/14/2025	22:40	LB135424
	Lead	4850	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Selenium	4850	5000	97	90 - 110	P	04/14/2025	22:40	LB135424
	Silver	1210	1250	97	90 - 110	P	04/14/2025	22:40	LB135424
CCV12	Arsenic	4760	5000	95	90 - 110	P	04/14/2025	23:06	LB135424
	Barium	9900	10000	99	90 - 110	P	04/14/2025	23:06	LB135424
	Cadmium	2430	2500	97	90 - 110	P	04/14/2025	23:06	LB135424
	Chromium	965	1000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Lead	4830	5000	97	90 - 110	P	04/14/2025	23:06	LB135424
	Selenium	4800	5000	96	90 - 110	P	04/14/2025	23:06	LB135424
	Silver	1200	1250	96	90 - 110	P	04/14/2025	23:06	LB135424



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Fax : 908 789 8922

Metals

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CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Arsenic	18.9	20.0	95	40 - 160	P	04/10/2025	10:33	LB135373
	Barium	85.4	100	85	40 - 160	P	04/10/2025	10:33	LB135373
	Cadmium	5.51	6.0	92	40 - 160	P	04/10/2025	10:33	LB135373
	Chromium	9.42	10.0	94	40 - 160	P	04/10/2025	10:33	LB135373
	Lead	11.6	12.0	97	40 - 160	P	04/10/2025	10:33	LB135373
	Selenium	18.1	20.0	91	40 - 160	P	04/10/2025	10:33	LB135373
	Silver	10.4	10.0	104	40 - 160	P	04/10/2025	10:33	LB135373
CRA	Mercury	0.19	0.2	96	40 - 160	CV	04/10/2025	13:10	LB135365
CRI01	Arsenic	22.3	20.0	112	40 - 160	P	04/14/2025	14:09	LB135424
	Barium	95.6	100	96	40 - 160	P	04/14/2025	14:09	LB135424
	Cadmium	6.08	6.0	101	40 - 160	P	04/14/2025	14:09	LB135424
	Chromium	9.67	10.0	97	40 - 160	P	04/14/2025	14:09	LB135424
	Lead	12.2	12.0	102	40 - 160	P	04/14/2025	14:09	LB135424
	Selenium	19.6	20.0	98	40 - 160	P	04/14/2025	14:09	LB135424
	Silver	9.88	10.0	99	40 - 160	P	04/14/2025	14:09	LB135424

Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
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	Arsenic	5.16			-20	20	04/10/2025	10:37	LB135373
	Barium	-3.92	6.0	65	-94	106	04/10/2025	10:37	LB135373
	Cadmium	-3.53	1.0	353	-5	7	04/10/2025	10:37	LB135373
	Chromium	55.8	52.0	107	42	62	04/10/2025	10:37	LB135373
	Lead	7.32			-12	12	04/10/2025	10:37	LB135373
	Selenium	-8.19			-20	20	04/10/2025	10:37	LB135373
	Silver	3.75			-10	10	04/10/2025	10:37	LB135373
ICSAB01	Arsenic	111	104	107	88.4	120	04/10/2025	10:42	LB135373
	Barium	459	537	86	437	637	04/10/2025	10:42	LB135373
	Cadmium	981	972	101	826	1120	04/10/2025	10:42	LB135373
	Chromium	553	542	102	460	624	04/10/2025	10:42	LB135373
	Lead	57.3	49.0	117	37	61	04/10/2025	10:42	LB135373
	Selenium	36.7	46.0	80	26	66	04/10/2025	10:42	LB135373
	Silver	186	201	92	170	232	04/10/2025	10:42	LB135373
ICSA01	Arsenic	10.8			-20	20	04/14/2025	14:14	LB135424
	Barium	4.69	6.0	78	-94	106	04/14/2025	14:14	LB135424
	Cadmium	-1.94	1.0	194	-5	7	04/14/2025	14:14	LB135424
	Chromium	55.2	52.0	106	42	62	04/14/2025	14:14	LB135424
	Lead	5.03			-12	12	04/14/2025	14:14	LB135424
	Selenium	-0.72			-20	20	04/14/2025	14:14	LB135424
	Silver	-3.74			-10	10	04/14/2025	14:14	LB135424
ICSAB01	Arsenic	114	104	110	88.4	120	04/14/2025	14:18	LB135424
	Barium	479	537	89	437	637	04/14/2025	14:18	LB135424
	Cadmium	1040	972	107	826	1120	04/14/2025	14:18	LB135424
	Chromium	553	542	102	460	624	04/14/2025	14:18	LB135424
	Lead	53.8	49.0	110	37	61	04/14/2025	14:18	LB135424
	Selenium	47.1	46.0	102	26	66	04/14/2025	14:18	LB135424
	Silver	179	201	89	170	232	04/14/2025	14:18	LB135424



METAL QC DATA

metals
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MATRIX SPIKE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>Q1744</u>
contract: <u>PORT06</u>	lab code: <u>CHEM</u>	case no.: <u>Q1744</u> sas no.: <u>Q1744</u>
matrix: <u>Water</u>	sample id: <u>Q1743-04</u>	client id: <u>TP-16MS</u>
Percent Solids for Sample: NA	Spiked ID: Q1743-04MS	Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3390		100	U	4000	85		P
Barium	ug/L	75 - 125	3120		2470		1000	65	N	P
Cadmium	ug/L	75 - 125	865		4.92	J	1000	86		P
Chromium	ug/L	75 - 125	1680		50.0	U	2000	84		P
Lead	ug/L	75 - 125	6040		2220		5000	76		P
Mercury	ug/L	75 - 125	36.6		2.00	U	40.0	92		CV
Selenium	ug/L	75 - 125	8320		100	U	10000	83		P
Silver	ug/L	75 - 125	310		50.0	U	380	82		P

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>Q1744</u>
contract: <u>PORT06</u>	lab code: <u>CHEM</u>	case no.: <u>Q1744</u> sas no.: <u>Q1744</u>
matrix: <u>Water</u>	sample id: <u>Q1743-04</u>	client id: <u>TP-16MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1743-04MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	3500		100	U	4000	88		P
Barium	ug/L	75 - 125	3020		2470		1000	54	N	P
Cadmium	ug/L	75 - 125	872		4.92	J	1000	87		P
Chromium	ug/L	75 - 125	1700		50.0	U	2000	85		P
Lead	ug/L	75 - 125	6110		2220		5000	78		P
Mercury	ug/L	75 - 125	35.5		2.00	U	40.0	89		CV
Selenium	ug/L	75 - 125	8540		100	U	10000	85		P
Silver	ug/L	75 - 125	314		50.0	U	380	83		P

Metals
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POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Contract: PORT06

Lab Code: CHEM

Case No.: Q1744

SAS No.: Q1744

Matrix: Water

Level: LOW

Client ID: TP-16A

Sample ID: Q1743-04

Spiked ID: Q1743-04A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	3250		2470		1000	77		P

A
B
C
D
E
F
G
H
I
J

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
Matrix: Water **Sample ID:** Q1743-04 **Client ID:** TP-16DUP
Percent Solids for Sample: NA **Duplicate ID** Q1743-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	100	U	100	U			P
Barium	ug/L	20	2470		2440		1		P
Cadmium	ug/L	20	4.92	J	5.01	J	2		P
Chromium	ug/L	20	50.0	U	14.2	J	200.0		P
Lead	ug/L	20	2220		2220		0		P
Mercury	ug/L	20	2.00	U	2.00	U			CV
Selenium	ug/L	20	100	U	100	U			P
Silver	ug/L	20	50.0	U	50.0	U			P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
Matrix: Water **Sample ID:** Q1743-04MS **Client ID:** TP-16MSD
Percent Solids for Sample: NA **Duplicate ID** Q1743-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	3390		3500		3		P
Barium	ug/L	20	3120		3020		3		P
Cadmium	ug/L	20	865		872		1		P
Chromium	ug/L	20	1680		1700		1		P
Lead	ug/L	20	6040		6110		1		P
Mercury	ug/L	20	36.6		35.5		3		CV
Selenium	ug/L	20	8320		8540		3		P
Silver	ug/L	20	310		314		1		P

Metals
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LABORATORY CONTROL SAMPLE SUMMARY

Client:

Portal Partners Tri-Venture

SDG No.:

Q1744

Contract:

PORT06

Lab Code:

CHEM

Case No.:

Q1744

SAS No.:

Q1744

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167533BS							
Arsenic	ug/L	4000	4080		102	80 - 120	P
Barium	ug/L	1000	968		97	80 - 120	P
Cadmium	ug/L	1000	1020		102	80 - 120	P
Chromium	ug/L	2000	2010		100	80 - 120	P
Lead	ug/L	5000	5050		101	80 - 120	P
Selenium	ug/L	10000	10200		102	80 - 120	P
Silver	ug/L	380	372		98	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167539BS Mercury	ug/L	4.0	3.80		95	80 - 120	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-16L

Lab Name: Chemtech Consulting Group

Contract: PORT06

Lab Code: CHEM **Lb No.:** lb135424 **Lab Sample ID :** Q1743-04L **SDG No.:** Q1744

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
Arsenic	100	U	500	U			P
Barium	2470		2500		1		P
Cadmium	4.92	J	5.82	J	18		P
Chromium	50.0	U	39.7	J	100.0		P
Lead	2220		2330		5		P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

metals
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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** Q1744 **Sas no.:** Q1744 **Sdg no.:** Q1744

Instrument id number: **Method:** **Run number:** LB135365

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1241	HG
S0.2	S0.2	1	1244	HG
S2.5	S2.5	1	1246	HG
S5	S5	1	1248	HG
S7.5	S7.5	1	1250	HG
S10	S10	1	1253	HG
ICV83	ICV83	1	1301	HG
ICB83	ICB83	1	1303	HG
CCV53	CCV53	1	1306	HG
CCB53	CCB53	1	1308	HG
CRA	CRA	1	1310	HG
PB167539BL	PB167539BL	1	1317	HG
PB167539BS	PB167539BS	1	1322	HG
Q1743-04DUP	TP-16DUP	1	1327	HG
Q1743-04MS	TP-16MS	1	1331	HG
Q1743-04MSD	TP-16MSD	1	1334	HG
Q1744-02	B-158-SB01	1	1336	HG
CCV54	CCV54	1	1338	HG
CCB54	CCB54	1	1341	HG
Q1744-04	B-158-SB02	1	1343	HG
CCV55	CCV55	1	1406	HG
CCB55	CCB55	1	1408	HG
CCV56	CCV56	1	1436	HG
CCB56	CCB56	1	1438	HG
CCV57	CCV57	1	1506	HG
CCB57	CCB57	1	1508	HG
PB167517TB	PB167517TB	1	1512	HG
Q1743-04L	TP-16L	5	1517	HG
CCV58	CCV58	1	1526	HG
CCB58	CCB58	1	1528	HG

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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** Q1744 **Sas no.:** Q1744 **Sdg no.:** Q1744

Instrument id number: **Method:** **Run number:** LB135373

Start date: 04/10/2025 **End date:** 04/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0930	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	0935	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	0939	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	0943	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	0947	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	0951	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1009	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1025	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1029	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1033	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1037	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1042	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1100	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1121	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1208	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1212	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1259	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1304	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1351	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1355	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1444	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1449	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1544	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1548	Ag,As,Ba,Cd,Cr,Pb,Se
PB167517TB	PB167517TB	1	1643	Ag,As,Ba,Cd,Cr,Pb,Se
Q1744-02	B-158-SB01	1	1647	Ag,As,Ba,Cd,Cr,Pb,Se
Q1744-04	B-158-SB02	1	1652	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1656	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	1700	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	1756	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	1800	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	1819	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	1823	Ag,As,Ba,Cd,Cr,Pb,Se

metals
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ANALYSIS RUN LOG

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

Lab code: CHEM **Case no.:** Q1744 **Sas no.:** Q1744 **Sdg no.:** Q1744

Instrument id number: **Method:** **Run number:** LB135424

Start date: 04/14/2025 **End date:** 04/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1313	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1317	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1322	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1326	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1330	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1334	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1356	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1401	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1405	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1409	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1414	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1418	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1431	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1435	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04DUP	TP-16DUP	1	1444	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04L	TP-16L	5	1448	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04MS	TP-16MS	1	1452	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04MSD	TP-16MSD	1	1457	Ag,As,Ba,Cd,Cr,Pb,Se
Q1743-04A	TP-16A	1	1501	Ba
CCV02	CCV02	1	1522	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1526	Ag,As,Ba,Cd,Cr,Pb,Se
PB167533BL	PB167533BL	1	1556	Ag,As,Ba,Cd,Cr,Pb,Se
PB167533BS	PB167533BS	1	1601	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1628	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1632	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	1718	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1722	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1816	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1820	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1907	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1911	Ag,As,Ba,Cd,Cr,Pb,Se
CCV07	CCV07	1	1957	Ag,As,Ba,Cd,Cr,Pb,Se
CCB07	CCB07	1	2001	Ag,As,Ba,Cd,Cr,Pb,Se
CCV08	CCV08	1	2048	Ag,As,Ba,Cd,Cr,Pb,Se
CCB08	CCB08	1	2052	Ag,As,Ba,Cd,Cr,Pb,Se
CCV09	CCV09	1	2138	Ag,As,Ba,Cd,Cr,Pb,Se
CCB09	CCB09	1	2142	Ag,As,Ba,Cd,Cr,Pb,Se
CCV10	CCV10	1	2228	Ag,As,Ba,Cd,Cr,Pb,Se
CCB10	CCB10	1	2232	Ag,As,Ba,Cd,Cr,Pb,Se
CCV11	CCV11	1	2240	Ag,As,Ba,Cd,Cr,Pb,Se
CCB11	CCB11	1	2244	Ag,As,Ba,Cd,Cr,Pb,Se

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ANALYSIS RUN LOG

Client: Portal Partners Tri-Venture

Contract: PORT06

Lab code: CHEM Case no.: Q1744 Sas no.: Q1744

Sdg no.: Q1744

Instrument id number: Method:

Run number: LB135424

Start date: 04/14/2025 End date: 04/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
CCV12	CCV12	1	2306	Ag,As,Ba,Cd,Cr,Pb,Se
CCB12	CCB12	1	2311	Ag,As,Ba,Cd,Cr,Pb,Se



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Contract: PORT06

Lab Code: CHEM

Case No.: Q1744

SAS No.: Q1744

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q1744
Contract: PORT06 **Lab Code:** CHEM **Case No.:** Q1744 **SAS No.:** Q1744
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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Contract: PORT06

Lab Code: CHEM

Case No.: Q1744

SAS No.: Q1744

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Contract: PORT06

Lab Code: CHEM

Case No.: Q1744

SAS No.: Q1744

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
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

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Contract: PORT06

Lab Code: CHEM

Case No.: Q1744

SAS No.: Q1744

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
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
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	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

LAB CHRONICLE

OrderID:	Q1744	OrderDate:	4/7/2025 11:34:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1744-01	B-158-SB01	SOIL			04/05/25			04/07/25
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1744-02	B-158-SB01	TCLP			04/05/25			04/07/25
			TCLP ICP Metals	6010D		04/09/25	04/10/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	
Q1744-03	B-158-SB02	SOIL			04/05/25			04/07/25
			Mercury	7471B		04/08/25	04/09/25	
			Metals ICP-TAL	6010D		04/07/25	04/10/25	
Q1744-04	B-158-SB02	TCLP			04/05/25			04/07/25
			TCLP ICP Metals	6010D		04/09/25	04/10/25	
			TCLP Mercury	7470A		04/10/25	04/10/25	



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	SDG No.:	<u>Q1744</u>
Contract:	<u>PORT06</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1744</u>
		SAS No.:	<u>Q1744</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167533							
PB167517TB	PB167517TB	MB	WATER	04/09/2025	5.0	25.0	
PB167533BL	PB167533BL	MB	WATER	04/09/2025	5.0	25.0	
PB167533BS	PB167533BS	LCS	WATER	04/09/2025	5.0	25.0	
Q1743-04DUP	TP-16DUP	DUP	WATER	04/09/2025	5.0	25.0	
Q1743-04MS	TP-16MS	MS	WATER	04/09/2025	5.0	25.0	
Q1743-04MSD	TP-16MSD	MSD	WATER	04/09/2025	5.0	25.0	
Q1744-02	B-158-SB01	SAM	WATER	04/09/2025	5.0	25.0	
Q1744-04	B-158-SB02	SAM	WATER	04/09/2025	5.0	25.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>Portal Partners Tri-Venture</u>	SDG No.:	<u>Q1744</u>
Contract:	<u>PORT06</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q1744</u>
		SAS No.:	<u>Q1744</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167539							
PB167517TB	PB167517TB	MB	WATER	04/10/2025	3.0	30.0	
PB167539BL	PB167539BL	MB	WATER	04/10/2025	30.0	30.0	
PB167539BS	PB167539BS	LCS	WATER	04/10/2025	30.0	30.0	
Q1743-04DUP	TP-16DUP	DUP	WATER	04/10/2025	3.0	30.0	
Q1743-04MS	TP-16MS	MS	WATER	04/10/2025	3.0	30.0	
Q1743-04MSD	TP-16MSD	MSD	WATER	04/10/2025	3.0	30.0	
Q1744-02	B-158-SB01	SAM	WATER	04/10/2025	3.0	30.0	
Q1744-04	B-158-SB02	SAM	WATER	04/10/2025	3.0	30.0	

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181		
ICV Standard	MP85182		
CCV Standard	MP85184		
ICSA Standard			
CRI Standard	MP85186		
LCS Standard			
Chk Standard	MP85183,MP85185,MP85187,MP85189		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/10/25 12:41		mohan	OK
2	S0.2	S0.2	CAL2	04/10/25 12:44		mohan	OK
3	S2.5	S2.5	CAL3	04/10/25 12:46		mohan	OK
4	S5	S5	CAL4	04/10/25 12:48		mohan	OK
5	S7.5	S7.5	CAL5	04/10/25 12:50		mohan	OK
6	S10	S10	CAL6	04/10/25 12:53		mohan	OK
7	ICV83	ICV83	ICV	04/10/25 13:01		mohan	OK
8	ICB83	ICB83	ICB	04/10/25 13:03		mohan	OK
9	CCV53	CCV53	CCV	04/10/25 13:06		mohan	OK
10	CCB53	CCB53	CCB	04/10/25 13:08		mohan	OK
11	CRA	CRA	CRDL	04/10/25 13:10		mohan	OK
12	HighStd	HighStd	HIGH STD	04/10/25 13:12		mohan	OK
13	ChkStd	ChkStd	SAM	04/10/25 13:15		mohan	OK
14	PB167539BL	PB167539BL	MB	04/10/25 13:17		mohan	OK
15	PB167539BS	PB167539BS	LCS	04/10/25 13:22		mohan	OK
16	Q1743-04	TP-16	SAM	04/10/25 13:24		mohan	OK
17	Q1743-04DUP	TP-16DUP	DUP	04/10/25 13:27		mohan	OK
18	Q1743-04MS	TP-16MS	MS	04/10/25 13:31		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181		
ICV Standard	MP85182		
CCV Standard	MP85184		
ICSA Standard			
CRI Standard	MP85186		
LCS Standard			
Chk Standard	MP85183,MP85185,MP85187,MP85189		

19	Q1743-04MSD	TP-16MSD	MSD	04/10/25 13:34		mohan	OK
20	Q1744-02	B-158-SB01	SAM	04/10/25 13:36		mohan	OK
21	CCV54	CCV54	CCV	04/10/25 13:38		mohan	OK
22	CCB54	CCB54	CCB	04/10/25 13:41		mohan	OK
23	Q1744-04	B-158-SB02	SAM	04/10/25 13:43		mohan	OK
24	Q1745-04	IB-6A-WC	SAM	04/10/25 13:45		mohan	OK
25	Q1745-12	IB-6.5-WC	SAM	04/10/25 13:47		mohan	OK
26	Q1746-02	B-149-SB01	SAM	04/10/25 13:50		mohan	OK
27	Q1746-04	B-149-SB02	SAM	04/10/25 13:52		mohan	OK
28	Q1748-04	IB-1.5-WC	SAM	04/10/25 13:54		mohan	OK
29	Q1748-08	IB-2A-WC	SAM	04/10/25 13:56		mohan	OK
30	Q1749-04	TP-14	SAM	04/10/25 13:59		mohan	OK
31	Q1752-02	TP-1	SAM	04/10/25 14:01		mohan	OK
32	Q1752-04	TP-2	SAM	04/10/25 14:03		mohan	OK
33	CCV55	CCV55	CCV	04/10/25 14:06		mohan	OK
34	CCB55	CCB55	CCB	04/10/25 14:08		mohan	OK
35	Q1752-06	TP-4	SAM	04/10/25 14:10		mohan	OK
36	Q1752-08	TP-3	SAM	04/10/25 14:12		mohan	OK
37	Q1753-04	WC-1	SAM	04/10/25 14:15		mohan	OK
38	Q1753-08	WC-2	SAM	04/10/25 14:17		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181		
ICV Standard	MP85182		
CCV Standard	MP85184		
ICSA Standard			
CRI Standard	MP85186		
LCS Standard			
Chk Standard	MP85183,MP85185,MP85187,MP85189		

39	Q1754-02	TP-1	SAM	04/10/25 14:19		mohan	OK
40	Q1754-04	TP-1-CONCRETE	SAM	04/10/25 14:21		mohan	OK
41	PB167540BL	PB167540BL	MB	04/10/25 14:24		mohan	OK
42	PB167540BS	PB167540BS	LCS	04/10/25 14:26		mohan	OK
43	Q1730-02	OU4-VSL-15-040325	SAM	04/10/25 14:28		mohan	OK
44	Q1730-04	OU4-VSL-16-040325	SAM	04/10/25 14:31		mohan	OK
45	CCV56	CCV56	CCV	04/10/25 14:36		mohan	OK
46	CCB56	CCB56	CCB	04/10/25 14:38		mohan	OK
47	Q1730-06	OU4-VSL-17-040325	SAM	04/10/25 14:40		mohan	OK
48	Q1730-08	OU4-PCS-TC-21-040325	SAM	04/10/25 14:42		mohan	OK
49	Q1730-10	OU4-PCS-TC-22-040325	SAM	04/10/25 14:45		mohan	OK
50	Q1730-12	OU4-PCS-TC-23-040325	SAM	04/10/25 14:47		mohan	OK
51	Q1730-14	OU4-PCS-TC-24-040325	SAM	04/10/25 14:49		mohan	OK
52	Q1730-16	OU4-PCS-TC-25-040325	SAM	04/10/25 14:51		mohan	OK
53	Q1730-18	OU4-PCS-TC-26-040325	SAM	04/10/25 14:54		mohan	OK
54	Q1730-20	OU4-CF-15-040325	SAM	04/10/25 14:56		mohan	OK
55	Q1730-20DUP	OU4-CF-15-040325D	DUP	04/10/25 14:58		mohan	OK
56	Q1730-20MS	OU4-CF-15-040325M	MS	04/10/25 15:03		mohan	OK
57	CCV57	CCV57	CCV	04/10/25 15:06		mohan	OK
58	CCB57	CCB57	CCB	04/10/25 15:08		mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135365

Review By	mohan	Review On	4/14/2025 8:06:12 AM
Supervise By	jaswal	Supervise On	4/14/2025 11:29:11 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85176,MP85177,MP85178,MP85179,MP85180,MP85181		
ICV Standard	MP85182		
CCV Standard	MP85184		
ICSA Standard			
CRI Standard	MP85186		
LCS Standard			
Chk Standard	MP85183,MP85185,MP85187,MP85189		

59	Q1730-20MSD	OU4-CF-15-040325M	MSD	04/10/25 15:10		mohan	OK
60	PB167517TB	PB167517TB	MB	04/10/25 15:12		mohan	OK
61	PB167540TB	PB167540TB	MB	04/10/25 15:15		mohan	OK
62	Q1743-04L	TP-16L	SD	04/10/25 15:17		mohan	OK
63	Q1743-04A	TP-16A	PS	04/10/25 15:19		mohan	OK
64	Q1730-20L	OU4-CF-15-040325L	SD	04/10/25 15:22		mohan	OK
65	Q1730-20A	OU4-CF-15-040325A	PS	04/10/25 15:24		mohan	OK
66	CCV58	CCV58	CCV	04/10/25 15:26		mohan	OK
67	CCB58	CCB58	CCB	04/10/25 15:28		mohan	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/10/25 09:30		Kareem	OK
2	S1	S1	CAL2	04/10/25 09:35		Kareem	OK
3	S2	S2	CAL3	04/10/25 09:39		Kareem	OK
4	S3	S3	CAL4	04/10/25 09:43		Kareem	OK
5	S4	S4	CAL5	04/10/25 09:47		Kareem	OK
6	S5	S5	CAL6	04/10/25 09:51		Kareem	OK
7	ICV01	ICV01	ICV	04/10/25 10:09	ICV01 Fail For Be,Cd,Ca,Co,Mg,Mn,Ni,V (200.7)	Kareem	OK
8	LLICV01	LLICV01	LLICV	04/10/25 10:25		Kareem	OK
9	ICB01	ICB01	ICB	04/10/25 10:29		Kareem	OK
10	CRI01	CRI01	CRDL	04/10/25 10:33		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/10/25 10:37		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/10/25 10:42		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/10/25 10:46		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/10/25 10:50		Kareem	OK
15	CCV01	CCV01	CCV	04/10/25 11:00		Kareem	OK
16	CCB01	CCB01	CCB	04/10/25 11:21		Kareem	OK
17	PB167483BL	PB167483BL	MB	04/10/25 11:26		Kareem	OK
18	PB167483BS	PB167483BS	LCS	04/10/25 11:30		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

19	PB167497BL	PB167497BL	MB	04/10/25 11:34		Kareem	OK
20	PB167497BS	PB167497BS	LCS	04/10/25 11:38		Kareem	OK
21	Q1715-01	WATER TREATMENT	SAM	04/10/25 11:42		Kareem	OK
22	Q1745-01	IB-6A-WC	SAM	04/10/25 11:47		Kareem	OK
23	Q1745-09	IB-6.5-WC	SAM	04/10/25 11:51		Kareem	OK
24	Q1748-01	IB-1.5-WC	SAM	04/10/25 11:55		Kareem	OK
25	Q1748-05	IB-2A-WC	SAM	04/10/25 11:59		Kareem	OK
26	Q1749-01	TP-14	SAM	04/10/25 12:03		Kareem	OK
27	CCV02	CCV02	CCV	04/10/25 12:08		Kareem	OK
28	CCB02	CCB02	CCB	04/10/25 12:12		Kareem	OK
29	Q1732-01	TT-8	SAM	04/10/25 12:17		Kareem	OK
30	Q1733-01	ETGI-328	SAM	04/10/25 12:21		Kareem	OK
31	Q1740-01	TP-20	SAM	04/10/25 12:25		Kareem	OK
32	Q1743-01	TP-16	SAM	04/10/25 12:29		Kareem	OK
33	Q1739-01	WC-LIQUID-20250404	SAM	04/10/25 12:33		Kareem	OK
34	Q1748-04	IB-1.5-WC	SAM	04/10/25 12:38		Kareem	OK
35	Q1748-08	IB-2A-WC	SAM	04/10/25 12:42		Kareem	OK
36	Q1754-02	TP-1	SAM	04/10/25 12:46		Kareem	OK
37	Q1754-04	TP-1-CONCRETE	SAM	04/10/25 12:51		Kareem	OK
38	Q1754-01	TP-1	SAM	04/10/25 12:55		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

39	CCV03	CCV03	CCV	04/10/25 12:59		Kareem	OK
40	CCB03	CCB03	CCB	04/10/25 13:04		Kareem	OK
41	Q1754-03	TP-1-CONCRETE	SAM	04/10/25 13:07		Kareem	OK
42	Q1754-03DUP	TP-1-CONCRETEDUP	DUP	04/10/25 13:12		Kareem	OK
43	Q1754-03L	TP-1-CONCRETEL	SD	04/10/25 13:16		Kareem	OK
44	Q1754-03A	TP-1-CONCRETEA	PS	04/10/25 13:29		Kareem	OK
45	Q1715-01DUP	WATER TREATMENT	DUP	04/10/25 13:33		Kareem	OK
46	Q1715-01L	WATER TREATMENT	SD	04/10/25 13:38		Kareem	OK
47	Q1745-04	IB-6A-WC	SAM	04/10/25 13:42		Kareem	OK
48	Q1745-12	IB-6.5-WC	SAM	04/10/25 13:47		Kareem	OK
49	CCV04	CCV04	CCV	04/10/25 13:51		Kareem	OK
50	CCB04	CCB04	CCB	04/10/25 13:55		Kareem	OK
51	Q1715-01MS	WATER TREATMENT	MS	04/10/25 13:59		Kareem	OK
52	Q1715-01MSD	WATER TREATMENT	MSD	04/10/25 14:07		Kareem	OK
53	Q1715-01A	WATER TREATMENT	PS	04/10/25 14:11		Kareem	OK
54	Q1744-01	B-158-SB01	SAM	04/10/25 14:15		Kareem	OK
55	Q1744-03	B-158-SB02	SAM	04/10/25 14:19		Kareem	OK
56	Q1754-03MS	TP-1-CONCRETEMS	MS	04/10/25 14:23		Kareem	OK
57	Q1754-03MSD	TP-1-CONCRETEMS	MSD	04/10/25 14:27		Kareem	OK
58	Q1745-09DUP	IB-6.5-WCDUP	DUP	04/10/25 14:32		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

59	Q1745-09L	IB-6.5-WCL	SD	04/10/25 14:36		Kareem	OK
60	CCV05	CCV05	CCV	04/10/25 14:44		Kareem	OK
61	CCB05	CCB05	CCB	04/10/25 14:49		Kareem	OK
62	Q1745-09A	IB-6.5-WCA	PS	04/10/25 14:57	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
63	Q1745-09MS	IB-6.5-WCMS	MS	04/10/25 15:05	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
64	Q1745-09MSD	IB-6.5-WCMSD	MSD	04/10/25 15:09	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
65	PBW04	PBW04	MB	04/10/25 15:14		Kareem	OK
66	LCSSW04	LCSSW04	LCS	04/10/25 15:18	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
67	PBS04	PBS04	MB	04/10/25 15:23		Kareem	OK
68	LCSS04	LCSS04	LCS	04/10/25 15:27	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
69	PBW05	PBW05	MB	04/10/25 15:31		Kareem	OK
70	PBS05	PBS05	MB	04/10/25 15:35		Kareem	OK
71	WATER MDL-4	WATER MDL-4	SAM	04/10/25 15:40		Kareem	OK
72	CCV06	CCV06	CCV	04/10/25 15:44		Kareem	OK
73	CCB06	CCB06	CCB	04/10/25 15:48		Kareem	OK
74	WATER MDL-5	WATER MDL-5	SAM	04/10/25 15:52		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

75	SOIL MDL-4	SOIL MDL-4	SAM	04/10/25 16:09		Kareem	OK
76	Q1746-01	B-149-SB01	SAM	04/10/25 16:17		Kareem	OK
77	Q1746-03	B-149-SB02	SAM	04/10/25 16:22		Kareem	OK
78	PB167490BL	PB167490BL	MB	04/10/25 16:26		Kareem	OK
79	PB167490BS	PB167490BS	LCS	04/10/25 16:39	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
80	PB167517TB	PB167517TB	MB	04/10/25 16:43		Kareem	OK
81	Q1744-02	B-158-SB01	SAM	04/10/25 16:47		Kareem	OK
82	Q1744-04	B-158-SB02	SAM	04/10/25 16:52		Kareem	OK
83	CCV07	CCV07	CCV	04/10/25 16:56		Kareem	OK
84	CCB07	CCB07	CCB	04/10/25 17:00		Kareem	OK
85	Q1780-01	001-WILLETS-PT-BL	SAM	04/10/25 17:05		Kareem	OK
86	Q1780-02	002-35TH-AVE(MAR)	SAM	04/10/25 17:09		Kareem	OK
87	Q1780-02DUP	002-35TH-AVE(MAR)	DUP	04/10/25 17:13		Kareem	OK
88	Q1780-02L	002-35TH-AVE(MAR)	SD	04/10/25 17:18		Kareem	OK
89	Q1780-02MS	002-35TH-AVE(MAR)	MS	04/10/25 17:22	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
90	Q1780-02MSD	002-35TH-AVE(MAR)	MSD	04/10/25 17:26	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135373

Review By	jaswal	Review On	4/11/2025 8:35:52 AM
Supervise By	kareem	Supervise On	4/11/2025 10:25:08 AM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

91	Q1780-02A	002-35TH-AVE(MAR)	PS	04/10/25 17:30	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
92	SOIL MDL-5	SOIL MDL-5	SAM	04/10/25 17:34		Kareem	OK
93	PB167554BL	PB167554BL	MB	04/10/25 17:39		Kareem	OK
94	PB167554BS	PB167554BS	LCS	04/10/25 17:43	0.1 ML OF M6004 AND M6013 WERE ADDED TO 10 ML OF SAMPLE	Kareem	OK
95	CCV08	CCV08	CCV	04/10/25 17:56		Kareem	OK
96	CCB08	CCB08	CCB	04/10/25 18:00		Kareem	OK
97	LR1	LR1	HIGH STD	04/10/25 18:05		Kareem	OK
98	LR2	LR2	HIGH STD	04/10/25 18:10		Kareem	OK
99	CCV09	CCV09	CCV	04/10/25 18:19		Kareem	OK
100	CCB09	CCB09	CCB	04/10/25 18:23		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	04/14/25 13:13		Kareem	OK
2	S1	S1	CAL2	04/14/25 13:17		Kareem	OK
3	S2	S2	CAL3	04/14/25 13:22		Kareem	OK
4	S3	S3	CAL4	04/14/25 13:26		Kareem	OK
5	S4	S4	CAL5	04/14/25 13:30		Kareem	OK
6	S5	S5	CAL6	04/14/25 13:34		Kareem	OK
7	ICV01	ICV01	ICV	04/14/25 13:56		Kareem	OK
8	LLICV01	LLICV01	LLICV	04/14/25 14:01		Kareem	OK
9	ICB01	ICB01	ICB	04/14/25 14:05		Kareem	OK
10	CRI01	CRI01	CRDL	04/14/25 14:09		Kareem	OK
11	ICSA01	ICSA01	ICSA	04/14/25 14:14		Kareem	OK
12	ICSAB01	ICSAB01	ICSAB	04/14/25 14:18		Kareem	OK
13	ICSADL	ICSADL	ICSA	04/14/25 14:22		Kareem	OK
14	ICSABDL	ICSABDL	ICSAB	04/14/25 14:27		Kareem	OK
15	CCV01	CCV01	CCV	04/14/25 14:31		Kareem	OK
16	CCB01	CCB01	CCB	04/14/25 14:35		Kareem	OK
17	Q1743-04	TP-16	SAM	04/14/25 14:39		Kareem	OK
18	Q1743-04DUP	TP-16DUP	DUP	04/14/25 14:44		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

19	Q1743-04L	TP-16L	SD	04/14/25 14:48		Kareem	OK
20	Q1743-04MS	TP-16MS	MS	04/14/25 14:52		Kareem	OK
21	Q1743-04MSD	TP-16MSD	MSD	04/14/25 14:57		Kareem	OK
22	Q1743-04A	TP-16A	PS	04/14/25 15:01		Kareem	OK
23	Q1774-02	TT-073-IDWGW-2025	SAM	04/14/25 15:05		Kareem	OK
24	Q1774-03	TT-074-IDWGW-2025	SAM	04/14/25 15:09		Kareem	OK
25	Q1774-04	TT-075-IDWGW-2025	SAM	04/14/25 15:14		Kareem	OK
26	Q1774-02DUP	TT-073-IDWGW-2025	DUP	04/14/25 15:18		Kareem	OK
27	CCV02	CCV02	CCV	04/14/25 15:22		Kareem	OK
28	CCB02	CCB02	CCB	04/14/25 15:26		Kareem	OK
29	Q1774-02L	TT-073-IDWGW-2025	SD	04/14/25 15:31		Kareem	OK
30	Q1774-02MS	TT-073-IDWGW-2025	MS	04/14/25 15:35		Kareem	OK
31	Q1774-02MSD	TT-073-IDWGW-2025	MSD	04/14/25 15:39		Kareem	OK
32	Q1774-02A	TT-073-IDWGW-2025	PS	04/14/25 15:43		Kareem	OK
33	Q1705-04	ETGI-327	SAM	04/14/25 15:47		Kareem	OK
34	Q1705-05	ETGI-275	SAM	04/14/25 15:52		Kareem	OK
35	PB167533BL	PB167533BL	MB	04/14/25 15:56		Kareem	OK
36	PB167533BS	PB167533BS	LCS	04/14/25 16:01		Kareem	OK
37	Q1753-04	WC-1	SAM	04/14/25 16:05		Kareem	OK
38	Q1753-08	WC-2	SAM	04/14/25 16:09		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

39	CCV03	CCV03	CCV	04/14/25 16:28		Kareem	OK
40	CCB03	CCB03	CCB	04/14/25 16:32		Kareem	OK
41	Q1753-01	WC-1	SAM	04/14/25 16:37		Kareem	OK
42	Q1753-05	WC-2	SAM	04/14/25 16:41		Kareem	OK
43	Q1768-01	CRUSHED STONE	SAM	04/14/25 16:45	Zn high	Kareem	Dilution
44	Q1756-01	TP-9	SAM	04/14/25 16:49		Kareem	OK
45	Q1760-01	TP-17	SAM	04/14/25 16:53		Kareem	OK
46	Q1760-05	TP-15	SAM	04/14/25 16:57		Kareem	OK
47	Q1779-01	TP-22	SAM	04/14/25 17:01		Kareem	OK
48	Q1779-05	TP-23	SAM	04/14/25 17:06		Kareem	OK
49	Q1779-05DUP	TP-23DUP	DUP	04/14/25 17:10		Kareem	OK
50	Q1779-05L	TP-23L	SD	04/14/25 17:14		Kareem	OK
51	CCV04	CCV04	CCV	04/14/25 17:18		Kareem	OK
52	CCB04	CCB04	CCB	04/14/25 17:22		Kareem	OK
53	Q1779-05MS	TP-23MS	MS	04/14/25 17:27		Kareem	OK
54	Q1779-05MSD	TP-23MSD	MSD	04/14/25 17:31		Kareem	OK
55	Q1779-05A	TP-23A	PS	04/14/25 17:35		Kareem	OK
56	Q1781-01	WC-13	SAM	04/14/25 17:39		Kareem	OK
57	Q1781-05	WC-12	SAM	04/14/25 17:43		Kareem	OK
58	Q1781-09	WC-11	SAM	04/14/25 17:48		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

59	PB167567BL	PB167567BL	MB	04/14/25 17:52		Kareem	OK
60	PB167567BS	PB167567BS	LCS	04/14/25 17:56		Kareem	OK
61	PB167482BL	PB167482BL	MB	04/14/25 18:00		Kareem	OK
62	PB167482BS	PB167482BS	LCS	04/14/25 18:12		Kareem	OK
63	CCV05	CCV05	CCV	04/14/25 18:16		Kareem	OK
64	CCB05	CCB05	CCB	04/14/25 18:20		Kareem	OK
65	PB167530BL	PB167530BL	MB	04/14/25 18:25		Kareem	OK
66	PB167530BS	PB167530BS	LCS	04/14/25 18:29		Kareem	OK
67	PB167548BL	PB167548BL	MB	04/14/25 18:33		Kareem	OK
68	PB167548BS	PB167548BS	LCS	04/14/25 18:38		Kareem	OK
69	PB167566BL	PB167566BL	MB	04/14/25 18:42		Kareem	OK
70	PB167566BS	PB167566BS	LCS	04/14/25 18:46		Kareem	OK
71	PB167500BL	PB167500BL	MB	04/14/25 18:50		Kareem	OK
72	PB167500BS	PB167500BS	LCS	04/14/25 18:54		Kareem	OK
73	Q1768-01DL	CRUSHED STONEDL	SAM	04/14/25 18:58	5X for Zn	Kareem	Confirms
74	Q1730-01	OU4-VSL-15-040325	SAM	04/14/25 19:02		Kareem	OK
75	CCV06	CCV06	CCV	04/14/25 19:07		Kareem	OK
76	CCB06	CCB06	CCB	04/14/25 19:11		Kareem	OK
77	Q1730-03	OU4-VSL-16-040325	SAM	04/14/25 19:15		Kareem	OK
78	Q1730-05	OU4-VSL-17-040325	SAM	04/14/25 19:19		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

79	Q1730-07	OU4-PCS-TC-21-0403	SAM	04/14/25 19:23		Kareem	OK
80	Q1730-09	OU4-PCS-TC-22-0403	SAM	04/14/25 19:27		Kareem	OK
81	Q1730-11	OU4-PCS-TC-23-0403	SAM	04/14/25 19:32		Kareem	OK
82	Q1730-13	OU4-PCS-TC-24-0403	SAM	04/14/25 19:36		Kareem	OK
83	Q1730-15	OU4-PCS-TC-25-0403	SAM	04/14/25 19:40		Kareem	OK
84	Q1730-17	OU4-PCS-TC-26-0403	SAM	04/14/25 19:44		Kareem	OK
85	Q1730-19	OU4-CF-15-040325	SAM	04/14/25 19:49		Kareem	OK
86	Q1736-01	GST1	SAM	04/14/25 19:53		Kareem	OK
87	CCV07	CCV07	CCV	04/14/25 19:57		Kareem	OK
88	CCB07	CCB07	CCB	04/14/25 20:01		Kareem	OK
89	Q1736-02	GST2	SAM	04/14/25 20:05		Kareem	OK
90	Q1738-01	OK-02-040425	SAM	04/14/25 20:10		Kareem	OK
91	Q1738-01DUP	OK-02-040425DUP	DUP	04/14/25 20:14		Kareem	OK
92	Q1738-01L	OK-02-040425L	SD	04/14/25 20:18		Kareem	OK
93	Q1738-01MS	OK-02-040425MS	MS	04/14/25 20:22		Kareem	OK
94	Q1738-01MSD	OK-02-040425MSD	MSD	04/14/25 20:26		Kareem	OK
95	Q1738-01A	OK-02-040425A	PS	04/14/25 20:30		Kareem	OK
96	Q1746-02	B-149-SB01	SAM	04/14/25 20:34		Kareem	OK
97	Q1746-04	B-149-SB02	SAM	04/14/25 20:39		Kareem	OK
98	Q1749-04	TP-14	SAM	04/14/25 20:43		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

99	CCV08	CCV08	CCV	04/14/25 20:48		Kareem	OK
100	CCB08	CCB08	CCB	04/14/25 20:52		Kareem	OK
101	Q1746-05	B-158-GW01	SAM	04/14/25 20:56		Kareem	OK
102	Q1746-06	B-149-GW01	SAM	04/14/25 21:00		Kareem	OK
103	Q1746-06DUP	B-149-GW01DUP	DUP	04/14/25 21:05		Kareem	OK
104	Q1746-06L	B-149-GW01L	SD	04/14/25 21:09		Kareem	OK
105	Q1746-06MS	B-149-GW01MS	MS	04/14/25 21:13		Kareem	OK
106	Q1746-06MSD	B-149-GW01MSD	MSD	04/14/25 21:17		Kareem	OK
107	Q1746-06A	B-149-GW01A	PS	04/14/25 21:21		Kareem	OK
108	Q1746-07	EB-2025-4-7	SAM	04/14/25 21:25		Kareem	OK
109	Q1771-01	TP-6C	SAM	04/14/25 21:30		Kareem	OK
110	Q1771-05	TP-7C	SAM	04/14/25 21:34		Kareem	OK
111	CCV09	CCV09	CCV	04/14/25 21:38		Kareem	OK
112	CCB09	CCB09	CCB	04/14/25 21:42		Kareem	OK
113	Q1771-09	TP-3A	SAM	04/14/25 21:46		Kareem	OK
114	Q1771-09DUP	TP-3ADUP	DUP	04/14/25 21:50		Kareem	OK
115	Q1771-09L	TP-3AL	SD	04/14/25 21:55		Kareem	OK
116	Q1771-09MS	TP-3AMS	MS	04/14/25 21:59		Kareem	OK
117	Q1771-09MSD	TP-3AMSD	MSD	04/14/25 22:03		Kareem	OK
118	Q1771-09A	TP-3AA	PS	04/14/25 22:07		Kareem	OK

Instrument ID: P4

Daily Analysis Runlog For Sequence/QC Batch ID # LB135424

Review By	jaswal	Review On	4/15/2025 1:01:00 PM
Supervise By	mohan	Supervise On	4/15/2025 1:12:12 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85016,MP85017,MP85018,MP85019,MP85020,MP85022		
ICV Standard	MP85023		
CCV Standard	MP85026		
ICSA Standard	MP85024,MP85025		
CRI Standard	MP85022		
LCS Standard			
Chk Standard	MP85030,MP85031		

119	Q1769-08	EB01-040925	SAM	04/14/25 22:11		Kareem	OK
120	Q1752-01	TP-1	SAM	04/14/25 22:15		Kareem	OK
121	Q1752-03	TP-2	SAM	04/14/25 22:19		Kareem	OK
122	Q1752-05	TP-4	SAM	04/14/25 22:23		Kareem	OK
123	CCV10	CCV10	CCV	04/14/25 22:28		Kareem	OK
124	CCB10	CCB10	CCB	04/14/25 22:32		Kareem	OK
125	Q1752-07	TP-3	SAM	04/14/25 22:36		Kareem	OK
126	CCV11	CCV11	CCV	04/14/25 22:40		Kareem	OK
127	CCB11	CCB11	CCB	04/14/25 22:44		Kareem	OK
128	Q1752-02	TP-1	SAM	04/14/25 22:49		Kareem	OK
129	Q1752-04	TP-2	SAM	04/14/25 22:53		Kareem	OK
130	Q1752-06	TP-4	SAM	04/14/25 22:57		Kareem	OK
131	Q1752-08	TP-3	SAM	04/14/25 23:02		Kareem	OK
132	CCV12	CCV12	CCV	04/14/25 23:06	Fail for Na	Kareem	OK
133	CCB12	CCB12	CCB	04/14/25 23:11		Kareem	OK

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pipette ID: ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

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

Start Digest Date: 04/09/2025 Time : 12:30 Temp : 96 °C

End Digest Date: 04/09/2025 Time : 15:35 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: SK3

Supervisor Signature:

Temp : 1. 96°C 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6003
LFS-2	0.25	M6012
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
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
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
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #1 CELL 50 Temp :96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 16:35	SK3 met. dig	SA (met. dig Lab)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB167517TB	PB167517TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	15
PB167533BL	PBW533	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16
PB167533BS	LCS533	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	17
Q1743-04MS	TP-16MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	20
Q1743-04MSD	TP-16MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6003,M6012	21
Q1743-04DUP	TP-16DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	19
Q1743-04	TP-16	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	18
Q1744-02	B-158-SB01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	22
Q1744-04	B-158-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	23
Q1745-04	IB-6A-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	24
Q1745-12	IB-6.5-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	25
Q1746-02	B-149-SB01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	26
Q1746-04	B-149-SB02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	27
Q1748-04	IB-1.5-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	28
Q1748-08	IB-2A-WC	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	29
Q1749-04	TP-14	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	30
Q1752-02	TP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	31
Q1752-04	TP-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	32
Q1752-06	TP-3	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	33
Q1752-08	TP-4	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	34
Q1753-04	WC-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	35
Q1753-08	WC-2	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	36
Q1754-02	TP-1	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	37
Q1754-04	TP-1-CONCRETE	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	38

SOP ID : M7470A-Mercury-19

SDG No : NA

Matrix : WATER

Pipette ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

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

Start Digest Date: 04/10/2025 Time : 09:45 Temp : 94 °C

End Digest Date: 04/10/2025 Time : 11:45 Temp : 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: *MB*

Supervisor Signature: *12*

Temp : 1. 94°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85182
CCV	30mL	MP85184
CRA	30mL	MP85186
Blank Spike	0.48mL	MP85175
Matrix Spike	0.48mL	MP85175

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.5mL	MP84563
KMnO4 (5%)	4.5mL	MP84564
K2S2O8 (5%)	2.5mL	MP84565
Hydroxylamine HCL (12%)	2.0mL	MP84566
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	MP85176
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85177
2.5 ppb	S2.5	30mL	MP85178
5.0 ppb	S5.0	30mL	MP85179
7.5 ppb	S7.5	30mL	MP85180
10.0 ppb	S10.0	30mL	MP85181
ICV	ICV	30mL	MP85182
ICB	ICB	30mL	MP85183
CCV	CCV	30mL	MP85184
CCB	CCB	30mL	MP85185
CRI	CRI	30mL	MP85186
CHK STD	CHK STD	30mL	MP85187

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/10/25 @ 12:30	<i>MB - 1219 - Lab</i>	<i>MB - 1219 - Lab</i>
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB167517TB	PB167517TB	3	30	<2	N/A	3-1
PB167539BL	PBW539	30	30	<2	N/A	2
PB167539BS	LCS539	30	30	<2	MP85175	3
Q1743-04DUP	TP-16DUP	3	30	<2	N/A	5
Q1743-04MS	TP-16MS	3	30	<2	MP85175	6
Q1743-04MSD	TP-16MSD	3	30	<2	MP85175	7
Q1743-04	TP-16	3	30	<2	N/A	4
Q1744-02	B-158-SB01	3	30	<2	N/A	8
Q1744-04	B-158-SB02	3	30	<2	N/A	9
Q1745-04	IB-6A-WC	3	30	<2	N/A	10
Q1745-12	IB-6.5-WC	3	30	<2	N/A	11
Q1746-02	B-149-SB01	3	30	<2	N/A	12
Q1746-04	B-149-SB02	3	30	<2	N/A	13
Q1748-04	IB-1.5-WC	3	30	<2	N/A	14
Q1748-08	IB-2A-WC	3	30	<2	N/A	15
Q1749-04	TP-14	3	30	<2	N/A	16
Q1752-02	TP-1	3	30	<2	N/A	17
Q1752-04	TP-2	3	30	<2	N/A	18
Q1752-06	TP-4	3	30	<2	N/A	19
Q1752-08	TP-3	3	30	<2	N/A	20
Q1753-04	WC-1	3	30	<2	N/A	21
Q1753-08	WC-2	3	30	<2	N/A	22
Q1754-02	TP-1	3	30	<2	N/A	23
Q1754-04	TP-1-CONCRETE	3	30	<2	N/A	24

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pipette ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 04/08/2025 Time : 16:40

End Prep Date : 04/09/2025 Time : 11:11

Combination Ratio : 20

ZHE Cleaning Batch : ⁵⁹ N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : *JP*

Supervisor By : *12*

Standard Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110802
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. Particle size reduction is not required. TUMBLER T-1 /T-2 checked,30 rpm. Q1743-04 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/09/25 12:40	<i>JP</i> / <i>100 Room</i>	<i>JP</i> / <i>1515</i>
	Preparation Group	Analysis Group

04/09/25

net 12

TCLP EXTRACTION LOGPAGE

PB167517

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167517TB	LEB517	19	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q1743-04	TP-16	01	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1744-02	B-158-SB01	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1744-04	B-158-SB02	03	100.04	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1745-04	IB-6A-WC	04	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1745-12	IB-6.5-WC	05	100.03	2000	N/A	N/A	N/A	5.8	1.0	T-1
Q1746-02	B-149-SB01	06	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1746-04	B-149-SB02	07	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q1748-04	IB-1.5-WC	08	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1748-08	IB-2A-WC	09	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q1749-04	TP-14	10	100.04	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1752-02	TP-1	11	100.02	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1752-04	TP-2	12	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-2
Q1752-06	TP-3	13	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-2
Q1752-08	TP-4	14	100.03	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1753-04	WC-1	15	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-2
Q1753-08	WC-2	16	100.02	2000	N/A	N/A	N/A	3.5	1.5	T-2
Q1754-02	TP-1	17	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q1754-04	TP-1-CONCRETE	18	100.04	2000	N/A	N/A	N/A	8.6	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167517TB	LEB517	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	N/A	N/A	N/A	N/A	100	N/A
Q1744-02	B-158-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1744-04	B-158-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1745-04	IB-6A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1745-12	IB-6.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1746-02	B-149-SB01	N/A	N/A	N/A	N/A	100	N/A
Q1746-04	B-149-SB02	N/A	N/A	N/A	N/A	100	N/A
Q1748-04	IB-1.5-WC	N/A	N/A	N/A	N/A	100	N/A
Q1748-08	IB-2A-WC	N/A	N/A	N/A	N/A	100	N/A
Q1749-04	TP-14	N/A	N/A	N/A	N/A	100	N/A
Q1752-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1752-04	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q1752-06	TP-3	N/A	N/A	N/A	N/A	100	N/A
Q1752-08	TP-4	N/A	N/A	N/A	N/A	100	N/A
Q1753-04	WC-1	N/A	N/A	N/A	N/A	100	N/A
Q1753-08	WC-2	N/A	N/A	N/A	N/A	100	N/A
Q1754-02	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q1754-04	TP-1-CONCRETE	N/A	N/A	N/A	N/A	100	N/A

Hot Block ID : WC S-1 /WC S-2
Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167517TB	LEB517	N/A	N/A	N/A	N/A	#1	4.93
Q1743-04	TP-16	5.02	96.5	8.2	3.0	#1	4.93
Q1744-02	B-158-SB01	5.03	96.5	6.6	2.5	#1	4.93
Q1744-04	B-158-SB02	5.02	96.5	6.4	2.5	#1	4.93
Q1745-04	IB-6A-WC	5.01	96.5	8.0	3.0	#1	4.93
Q1745-12	IB-6.5-WC	5.02	96.5	7.6	2.5	#1	4.93
Q1746-02	B-149-SB01	5.03	96.5	7.0	2.0	#1	4.93
Q1746-04	B-149-SB02	5.04	96.5	7.6	2.5	#1	4.93
Q1748-04	IB-1.5-WC	5.01	96.5	7.6	2.5	#1	4.93
Q1748-08	IB-2A-WC	5.02	96.5	8.0	3.0	#1	4.93
Q1749-04	TP-14	5.03	96.5	7.2	2.5	#1	4.93
Q1752-02	TP-1	5.02	96.5	8.0	3.0	#1	4.93
Q1752-04	TP-2	5.03	96.5	6.6	2.5	#1	4.93
Q1752-06	TP-3	5.00	96.5	5.8	2.0	#1	4.93
Q1752-08	TP-4	5.01	96.5	5.6	2.0	#1	4.93
Q1753-04	WC-1	5.02	96.5	5.5	2.0	#1	4.93
Q1753-08	WC-2	5.03	96.5	6.0	2.5	#1	4.93
Q1754-02	TP-1	5.02	96.5	7.2	2.5	#1	4.93
Q1754-04	TP-1-CONCRETE	5.03	96.5	10.5	4.0	#1	4.93