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

Hit Summary Sheet
SW-846

SDG No.: Q2832 **Order ID:** Q2832

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : TG-S01								
Q2832-02	TG-S01	TCLP	Barium	755		72.8	500	ug/L
Q2832-02	TG-S01	TCLP	Cadmium	2.63	J	2.50	30.0	ug/L
Q2832-02	TG-S01	TCLP	Lead	78.2		11.5	60.0	ug/L
Client ID : TG-S02								
Q2832-04	TG-S02	TCLP	Barium	775		72.8	500	ug/L
Q2832-04	TG-S02	TCLP	Cadmium	5.96	J	2.50	30.0	ug/L
Q2832-04	TG-S02	TCLP	Lead	61.7		11.5	60.0	ug/L
Client ID : TG-S03								
Q2832-06	TG-S03	TCLP	Barium	537		72.8	500	ug/L
Q2832-06	TG-S03	TCLP	Cadmium	5.09	J	2.50	30.0	ug/L
Q2832-06	TG-S03	TCLP	Lead	78.1		11.5	60.0	ug/L
Client ID : TG-S04								
Q2832-08	TG-S04	TCLP	Barium	825		72.8	500	ug/L
Q2832-08	TG-S04	TCLP	Cadmium	5.67	J	2.50	30.0	ug/L
Q2832-08	TG-S04	TCLP	Chromium	14.4	J	10.6	50.0	ug/L
Q2832-08	TG-S04	TCLP	Lead	38.2	J	11.5	60.0	ug/L
Client ID : TG-S05								
Q2832-10	TG-S05	TCLP	Barium	408	J	72.8	500	ug/L
Q2832-10	TG-S05	TCLP	Lead	141		11.5	60.0	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S01	SDG No.:	Q2832
Lab Sample ID:	Q2832-02	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	25.6	U	1	25.6	100	ug/L	08/13/25 12:30	08/14/25 13:28	6010D	SW3050
7440-39-3	Barium	755	N*	1	72.8	500	ug/L	08/13/25 12:30	08/14/25 13:28	6010D	SW3050
7440-43-9	Cadmium	2.63	J	1	2.50	30.0	ug/L	08/13/25 12:30	08/14/25 13:28	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	08/13/25 12:30	08/14/25 13:28	6010D	SW3050
7439-92-1	Lead	78.2		1	11.5	60.0	ug/L	08/13/25 12:30	08/14/25 13:28	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	08/13/25 12:30	08/14/25 11:24	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	08/13/25 12:30	08/14/25 13:28	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	08/13/25 12:30	08/14/25 13:28	6010D	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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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S02	SDG No.:	Q2832
Lab Sample ID:	Q2832-04	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	25.6	U	1	25.6	100	ug/L	08/13/25 12:30	08/14/25 13:33	6010D	SW3050
7440-39-3	Barium	775	N*	1	72.8	500	ug/L	08/13/25 12:30	08/14/25 13:33	6010D	SW3050
7440-43-9	Cadmium	5.96	J	1	2.50	30.0	ug/L	08/13/25 12:30	08/14/25 13:33	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	08/13/25 12:30	08/14/25 13:33	6010D	SW3050
7439-92-1	Lead	61.7		1	11.5	60.0	ug/L	08/13/25 12:30	08/14/25 13:33	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	08/13/25 12:30	08/14/25 11:27	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	08/13/25 12:30	08/14/25 13:33	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	08/13/25 12:30	08/14/25 13:33	6010D	SW3050

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S03	SDG No.:	Q2832
Lab Sample ID:	Q2832-06	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	25.6	U	1	25.6	100	ug/L	08/13/25 12:30	08/14/25 13:37	6010D	SW3050
7440-39-3	Barium	537	N*	1	72.8	500	ug/L	08/13/25 12:30	08/14/25 13:37	6010D	SW3050
7440-43-9	Cadmium	5.09	J	1	2.50	30.0	ug/L	08/13/25 12:30	08/14/25 13:37	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	08/13/25 12:30	08/14/25 13:37	6010D	SW3050
7439-92-1	Lead	78.1		1	11.5	60.0	ug/L	08/13/25 12:30	08/14/25 13:37	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	08/13/25 12:30	08/14/25 11:29	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	08/13/25 12:30	08/14/25 13:37	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	08/13/25 12:30	08/14/25 13:37	6010D	SW3050

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

U = Not Detected
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MDL = Method Detection Limit
LOD = Limit of Detection
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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:	08/11/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S04	SDG No.:	Q2832
Lab Sample ID:	Q2832-08	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	25.6	U	1	25.6	100	ug/L	08/13/25 12:30	08/14/25 13:50	6010D	SW3050
7440-39-3	Barium	825	N*	1	72.8	500	ug/L	08/13/25 12:30	08/14/25 13:50	6010D	SW3050
7440-43-9	Cadmium	5.67	J	1	2.50	30.0	ug/L	08/13/25 12:30	08/14/25 13:50	6010D	SW3050
7440-47-3	Chromium	14.4	J	1	10.6	50.0	ug/L	08/13/25 12:30	08/14/25 13:50	6010D	SW3050
7439-92-1	Lead	38.2	J	1	11.5	60.0	ug/L	08/13/25 12:30	08/14/25 13:50	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	08/13/25 12:30	08/14/25 11:59	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	08/13/25 12:30	08/14/25 13:50	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	08/13/25 12:30	08/14/25 13:50	6010D	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
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	08/12/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	08/12/25
Client Sample ID:	TG-S05	SDG No.:	Q2832
Lab Sample ID:	Q2832-10	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	25.6	U	1	25.6	100	ug/L	08/13/25 12:30	08/14/25 13:54	6010D	SW3050
7440-39-3	Barium	408	JN*	1	72.8	500	ug/L	08/13/25 12:30	08/14/25 13:54	6010D	SW3050
7440-43-9	Cadmium	2.50	U	1	2.50	30.0	ug/L	08/13/25 12:30	08/14/25 13:54	6010D	SW3050
7440-47-3	Chromium	10.6	U	1	10.6	50.0	ug/L	08/13/25 12:30	08/14/25 13:54	6010D	SW3050
7439-92-1	Lead	141		1	11.5	60.0	ug/L	08/13/25 12:30	08/14/25 13:54	6010D	SW3050
7439-97-6	Mercury	0.76	U	1	0.76	2.00	ug/L	08/13/25 12:30	08/14/25 11:32	7470A	
7782-49-2	Selenium	48.2	U	1	48.2	100	ug/L	08/13/25 12:30	08/14/25 13:54	6010D	SW3050
7440-22-4	Silver	8.10	U	1	8.10	50.0	ug/L	08/13/25 12:30	08/14/25 13:54	6010D	SW3050

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

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB14	Mercury	0.076	+/-0.2	U	0.20	CV	08/14/2025	11:00	LB136819

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB41	Mercury	0.076	+/-0.2	U	0.20	CV	08/14/2025	11:05	LB136819
CCB42	Mercury	0.076	+/-0.2	U	0.20	CV	08/14/2025	11:36	LB136819
CCB43	Mercury	0.076	+/-0.2	U	0.20	CV	08/14/2025	12:04	LB136819
CCB44	Mercury	0.076	+/-0.2	U	0.20	CV	08/14/2025	12:15	LB136819

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	12:13	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	12:13	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	12:13	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	12:13	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	12:13	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	12:13	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	12:13	LB136837

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	12:54	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	12:54	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	12:54	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	12:54	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	12:54	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	12:54	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	12:54	LB136837
CCB02	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	13:46	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	13:46	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	13:46	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	13:46	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	13:46	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	13:46	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	13:46	LB136837
CCB03	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	14:45	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	14:45	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	14:45	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	14:45	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	14:45	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	14:45	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	14:45	LB136837
CCB04	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	16:02	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	16:02	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	16:02	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	16:02	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	16:02	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	16:02	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	16:02	LB136837
CCB05	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	17:00	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	17:00	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	17:00	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	17:00	LB136837
	Lead	2.30	+/-6	U	12.0	P	08/14/2025	17:00	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	17:00	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	17:00	LB136837
CCB06	Arsenic	5.12	+/-10	U	20.0	P	08/14/2025	18:05	LB136837
	Barium	14.6	+/-50	U	100	P	08/14/2025	18:05	LB136837
	Cadmium	0.50	+/-3	U	6.00	P	08/14/2025	18:05	LB136837
	Chromium	2.12	+/-5	U	10.0	P	08/14/2025	18:05	LB136837

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	2.30	+/-6	U	12.0	P	08/14/2025	18:05	LB136837
	Selenium	9.64	+/-10	U	20.0	P	08/14/2025	18:05	LB136837
	Silver	1.62	+/-5	U	10.0	P	08/14/2025	18:05	LB136837

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169212TB		**WATER**		**Batch Number:**	**PB169234**		**Prep Date:**	**08/13/2025**	
	Mercury	0.76	<2	U	2.00	CV	08/14/2025	12:11	LB136819

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169234BL		**WATER**		**Batch Number:**	**PB169234**		**Prep Date:**	**08/13/2025**	
	Mercury	0.076	<0.2	U	0.20	CV	08/14/2025	11:17	LB136819

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169212TB		**WATER**		**Batch Number:**	**PB169236**		**Prep Date:**	**08/13/2025**	
	Arsenic	25.6	<50	U	100	P	08/14/2025	13:19	LB136837
	Barium	72.8	<250	U	500	P	08/14/2025	13:19	LB136837
	Cadmium	2.50	<15	U	30.0	P	08/14/2025	13:19	LB136837
	Chromium	10.6	<25	U	50.0	P	08/14/2025	13:19	LB136837
	Lead	11.5	<30	U	60.0	P	08/14/2025	13:19	LB136837
	Selenium	48.2	<50	U	100	P	08/14/2025	13:19	LB136837
	Silver	8.10	<25	U	50.0	P	08/14/2025	13:19	LB136837

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB169236BL		**WATER**		**Batch Number:**	**PB169236**		**Prep Date:**	**08/13/2025**	
	Arsenic	25.6	<50	U	100	P	08/14/2025	13:03	LB136837
	Barium	72.8	<250	U	500	P	08/14/2025	13:03	LB136837
	Cadmium	2.50	<15	U	30.0	P	08/14/2025	13:03	LB136837
	Chromium	10.6	<25	U	50.0	P	08/14/2025	13:03	LB136837
	Lead	11.5	<30	U	60.0	P	08/14/2025	13:03	LB136837
	Selenium	48.2	<50	U	100	P	08/14/2025	13:03	LB136837
	Silver	8.10	<25	U	50.0	P	08/14/2025	13:03	LB136837

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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
ICV14	Mercury	3.96	4.0	99	90 - 110	CV	08/14/2025	10:58	LB136819

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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
CCV41	Mercury	5.13	5.0	102	90 - 110	CV	08/14/2025	11:03	LB136819
CCV42	Mercury	5.09	5.0	102	90 - 110	CV	08/14/2025	11:34	LB136819
CCV43	Mercury	5.03	5.0	100	90 - 110	CV	08/14/2025	12:01	LB136819
CCV44	Mercury	4.98	5.0	100	90 - 110	CV	08/14/2025	12:13	LB136819

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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	3980	4000	100	90 - 110	P	08/14/2025	12:05	LB136837
	Barium	8040	8000	100	90 - 110	P	08/14/2025	12:05	LB136837
	Cadmium	1980	2000	99	90 - 110	P	08/14/2025	12:05	LB136837
	Chromium	820	800	102	90 - 110	P	08/14/2025	12:05	LB136837
	Lead	3890	4000	97	90 - 110	P	08/14/2025	12:05	LB136837
	Selenium	3970	4000	99	90 - 110	P	08/14/2025	12:05	LB136837
	Silver	1070	1000	107	90 - 110	P	08/14/2025	12:05	LB136837

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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	21.4	20.0	107	80 - 120	P	08/14/2025	12:09	LB136837
	Barium	97.9	100	98	80 - 120	P	08/14/2025	12:09	LB136837
	Cadmium	5.85	6.0	97	80 - 120	P	08/14/2025	12:09	LB136837
	Chromium	10.7	10.0	107	80 - 120	P	08/14/2025	12:09	LB136837
	Lead	12.2	12.0	101	80 - 120	P	08/14/2025	12:09	LB136837
	Selenium	19.6	20.0	98	80 - 120	P	08/14/2025	12:09	LB136837
	Silver	10.5	10.0	105	80 - 120	P	08/14/2025	12:09	LB136837

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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	5070	5000	102	90 - 110	P	08/14/2025	12:50	LB136837
	Barium	9910	10000	99	90 - 110	P	08/14/2025	12:50	LB136837
	Cadmium	2490	2500	100	90 - 110	P	08/14/2025	12:50	LB136837
	Chromium	1020	1000	102	90 - 110	P	08/14/2025	12:50	LB136837
	Lead	4960	5000	99	90 - 110	P	08/14/2025	12:50	LB136837
	Selenium	5140	5000	103	90 - 110	P	08/14/2025	12:50	LB136837
	Silver	1270	1250	102	90 - 110	P	08/14/2025	12:50	LB136837
CCV02	Arsenic	5090	5000	102	90 - 110	P	08/14/2025	13:42	LB136837
	Barium	9920	10000	99	90 - 110	P	08/14/2025	13:42	LB136837
	Cadmium	2460	2500	98	90 - 110	P	08/14/2025	13:42	LB136837
	Chromium	1020	1000	102	90 - 110	P	08/14/2025	13:42	LB136837
	Lead	4890	5000	98	90 - 110	P	08/14/2025	13:42	LB136837
	Selenium	5140	5000	103	90 - 110	P	08/14/2025	13:42	LB136837
	Silver	1260	1250	101	90 - 110	P	08/14/2025	13:42	LB136837
CCV03	Arsenic	4980	5000	100	90 - 110	P	08/14/2025	14:41	LB136837
	Barium	9880	10000	99	90 - 110	P	08/14/2025	14:41	LB136837
	Cadmium	2400	2500	96	90 - 110	P	08/14/2025	14:41	LB136837
	Chromium	984	1000	98	90 - 110	P	08/14/2025	14:41	LB136837
	Lead	4790	5000	96	90 - 110	P	08/14/2025	14:41	LB136837
	Selenium	5000	5000	100	90 - 110	P	08/14/2025	14:41	LB136837
	Silver	1240	1250	99	90 - 110	P	08/14/2025	14:41	LB136837
CCV04	Arsenic	5090	5000	102	90 - 110	P	08/14/2025	15:58	LB136837
	Barium	9790	10000	98	90 - 110	P	08/14/2025	15:58	LB136837
	Cadmium	2410	2500	96	90 - 110	P	08/14/2025	15:58	LB136837
	Chromium	1000	1000	100	90 - 110	P	08/14/2025	15:58	LB136837
	Lead	4810	5000	96	90 - 110	P	08/14/2025	15:58	LB136837
	Selenium	5210	5000	104	90 - 110	P	08/14/2025	15:58	LB136837
	Silver	1260	1250	101	90 - 110	P	08/14/2025	15:58	LB136837
CCV05	Arsenic	5110	5000	102	90 - 110	P	08/14/2025	16:50	LB136837
	Barium	9710	10000	97	90 - 110	P	08/14/2025	16:50	LB136837
	Cadmium	2390	2500	96	90 - 110	P	08/14/2025	16:50	LB136837
	Chromium	985	1000	98	90 - 110	P	08/14/2025	16:50	LB136837
	Lead	4770	5000	96	90 - 110	P	08/14/2025	16:50	LB136837
	Selenium	5230	5000	104	90 - 110	P	08/14/2025	16:50	LB136837

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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	1250	1250	100	90 - 110	P	08/14/2025	16:50	LB136837
CCV06	Arsenic	5150	5000	103	90 - 110	P	08/14/2025	17:54	LB136837
	Barium	9970	10000	100	90 - 110	P	08/14/2025	17:54	LB136837
	Cadmium	2380	2500	95	90 - 110	P	08/14/2025	17:54	LB136837
	Chromium	984	1000	98	90 - 110	P	08/14/2025	17:54	LB136837
	Lead	4750	5000	95	90 - 110	P	08/14/2025	17:54	LB136837
	Selenium	5260	5000	105	90 - 110	P	08/14/2025	17:54	LB136837
	Silver	1250	1250	100	90 - 110	P	08/14/2025	17:54	LB136837

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	107	70 - 130	CV	08/14/2025	11:07	LB136819
CRI01	Arsenic	21.1	20.0	105	65 - 135	P	08/14/2025	12:23	LB136837
	Barium	96.4	100	96	65 - 135	P	08/14/2025	12:23	LB136837
	Cadmium	5.92	6.0	99	65 - 135	P	08/14/2025	12:23	LB136837
	Chromium	10.4	10.0	104	65 - 135	P	08/14/2025	12:23	LB136837
	Lead	12.4	12.0	103	65 - 135	P	08/14/2025	12:23	LB136837
	Selenium	17.9	20.0	89	65 - 135	P	08/14/2025	12:23	LB136837
	Silver	11.0	10.0	110	65 - 135	P	08/14/2025	12:23	LB136837

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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	7.57			-20	20	08/14/2025	12:27	LB136837
	Barium	0.097	6.0	2	-94	106	08/14/2025	12:27	LB136837
	Cadmium	2.91	1.0	291	-5	7	08/14/2025	12:27	LB136837
	Chromium	60.3	52.0	116	42	62	08/14/2025	12:27	LB136837
	Lead	-5.21			-12	12	08/14/2025	12:27	LB136837
	Selenium	-3.06			-20	20	08/14/2025	12:27	LB136837
	Silver	1.48			-10	10	08/14/2025	12:27	LB136837
ICSAB01	Arsenic	110	104	106	88.4	120	08/14/2025	12:38	LB136837
	Barium	485	537	90	437	637	08/14/2025	12:38	LB136837
	Cadmium	989	972	102	826	1120	08/14/2025	12:38	LB136837
	Chromium	566	542	104	460	624	08/14/2025	12:38	LB136837
	Lead	42.6	49.0	87	37	61	08/14/2025	12:38	LB136837
	Selenium	46.6	46.0	101	26	66	08/14/2025	12:38	LB136837
	Silver	216	201	108	170	232	08/14/2025	12:38	LB136837

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2832

contract: PORT06 **lab code:** ACE

matrix: Water **sample id:** Q2838-08 **client id:** TP-10MS

Percent Solids for Sample: NA **Spiked ID:** Q2838-08MS **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	4060		100	U	4000	102		P
Barium	ug/L	75 - 125	2660		1070		1000	159	N	P
Cadmium	ug/L	75 - 125	962		30.0	U	1000	96		P
Chromium	ug/L	75 - 125	1970		50.0	U	2000	98		P
Lead	ug/L	75 - 125	4520		13.3	J	5000	90		P
Mercury	ug/L	75 - 125	39.4		2.00	U	40.0	98		CV
Selenium	ug/L	75 - 125	9990		100	U	10000	100		P
Silver	ug/L	75 - 125	380		50.0	U	380	100		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2832

contract: PORT06 **lab code:** ACE

matrix: Water **sample id:** Q2838-08 **client id:** TP-10MSD

Percent Solids for Sample: NA **Spiked ID:** Q2838-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	4030		100	U	4000	101		P
Barium	ug/L	75 - 125	2490		1070		1000	141	N	P
Cadmium	ug/L	75 - 125	949		30.0	U	1000	95		P
Chromium	ug/L	75 - 125	1960		50.0	U	2000	98		P
Lead	ug/L	75 - 125	4460		13.3	J	5000	89		P
Mercury	ug/L	75 - 125	35.8		2.00	U	40.0	90		CV
Selenium	ug/L	75 - 125	9980		100	U	10000	100		P
Silver	ug/L	75 - 125	371		50.0	U	380	98		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Matrix: Water **Level:** LOW **Client ID:** TP-10A

Sample ID: Q2838-08 **Spiked ID:** Q2838-08A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	75 - 125	2220		1070		1000	115		P

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2838-08 **Client ID:** TP-10DUP

Percent Solids for Sample: NA **Duplicate ID** Q2838-08DUP **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	1070		1550		37	*	P
Cadmium	ug/L	20	30.0	U	30.0	U			P
Chromium	ug/L	20	50.0	U	50.0	U			P
Lead	ug/L	20	13.3	J	23.1	J	54		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

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

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Metals

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DUPLICATE SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **Level:** LOW **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Matrix: Water **Sample ID:** Q2838-08MS **Client ID:** TP-10MSD

Percent Solids for Sample: NA **Duplicate ID** Q2838-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	4060		4030		1		P
Barium	ug/L	20	2660		2490		7		P
Cadmium	ug/L	20	962		949		1		P
Chromium	ug/L	20	1970		1960		1		P
Lead	ug/L	20	4520		4460		1		P
Mercury	ug/L	20	39.4		35.8		10		CV
Selenium	ug/L	20	9990		9980		0		P
Silver	ug/L	20	380		371		2		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.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169234BS							
Mercury	ug/L	4.0	3.94		98	80 - 120	CV

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB169236BS							
Arsenic	ug/L	4000	4010		100	80 - 120	P
Barium	ug/L	1000	982		98	80 - 120	P
Cadmium	ug/L	1000	972		97	80 - 120	P
Chromium	ug/L	2000	2110		106	80 - 120	P
Lead	ug/L	5000	4900		98	80 - 120	P
Selenium	ug/L	10000	10200		102	80 - 120	P
Silver	ug/L	380	390		103	80 - 120	P

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Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

TP-10L

Lab Name: Alliance **Contract:** PORT06

Lab Code: ACE **Lb No.:** lb136837 **Lab Sample ID :** Q2838-08L **SDG No.:** Q2832

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	100	U	500	U			P
Barium	1070		973	J	9		P
Cadmium	30.0	U	150	U			P
Chromium	50.0	U	250	U			P
Lead	13.3	J	300	U	100.0		P
Mercury	2.00	U	10.0	U			CV
Selenium	100	U	500	U			P
Silver	50.0	U	250	U			P

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metals
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ANALYSIS RUN LOG

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

Lab code: ACE **Sdg no.:** Q2832

Instrument id number: **Method:** **Run number:** LB136819

Start date: 08/14/2025 **End date:** 08/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1040	HG
S0.2	S0.2	1	1042	HG
S2.5	S2.5	1	1048	HG
S5	S5	1	1050	HG
S7.5	S7.5	1	1052	HG
S10	S10	1	1054	HG
ICV14	ICV14	1	1058	HG
ICB14	ICB14	1	1100	HG
CCV41	CCV41	1	1103	HG
CCB41	CCB41	1	1105	HG
CRA	CRA	1	1107	HG
PB169234BL	PB169234BL	1	1117	HG
PB169234BS	PB169234BS	1	1119	HG
Q2832-02	TG-S01	1	1124	HG
Q2832-04	TG-S02	1	1127	HG
Q2832-06	TG-S03	1	1129	HG
Q2832-10	TG-S05	1	1132	HG
CCV42	CCV42	1	1134	HG
CCB42	CCB42	1	1136	HG
Q2838-08DUP	TP-10DUP	1	1152	HG
Q2838-08MS	TP-10MS	1	1155	HG
Q2838-08MSD	TP-10MSD	1	1157	HG
Q2832-08	TG-S04	1	1159	HG
CCV43	CCV43	1	1201	HG
CCB43	CCB43	1	1204	HG
Q2838-08L	TP-10L	5	1206	HG
PB169212TB	PB169212TB	1	1211	HG
CCV44	CCV44	1	1213	HG
CCB44	CCB44	1	1215	HG

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metals
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ANALYSIS RUN LOG

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

Lab code: ACE **Sdg no.:** Q2832

Instrument id number: **Method:** **Run number:** LB136837

Start date: 08/14/2025 **End date:** 08/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1139	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1144	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1148	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1152	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1156	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1200	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1205	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1209	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1213	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	1223	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1227	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1238	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1250	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1254	Ag,As,Ba,Cd,Cr,Pb,Se
PB169236BL	PB169236BL	1	1303	Ag,As,Ba,Cd,Cr,Pb,Se
PB169236BS	PB169236BS	1	1307	Ag,As,Ba,Cd,Cr,Pb,Se
PB169212TB	PB169212TB	1	1319	Ag,As,Ba,Cd,Cr,Pb,Se
Q2832-02	TG-S01	1	1328	Ag,As,Ba,Cd,Cr,Pb,Se
Q2832-04	TG-S02	1	1333	Ag,As,Ba,Cd,Cr,Pb,Se
Q2832-06	TG-S03	1	1337	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1342	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1346	Ag,As,Ba,Cd,Cr,Pb,Se
Q2832-08	TG-S04	1	1350	Ag,As,Ba,Cd,Cr,Pb,Se
Q2832-10	TG-S05	1	1354	Ag,As,Ba,Cd,Cr,Pb,Se
Q2838-08DUP	TP-10DUP	1	1425	Ag,As,Ba,Cd,Cr,Pb,Se
Q2838-08L	TP-10L	5	1430	Ag,As,Ba,Cd,Cr,Pb,Se
CCV03	CCV03	1	1441	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	1445	Ag,As,Ba,Cd,Cr,Pb,Se
Q2838-08MS	TP-10MS	1	1450	Ag,As,Ba,Cd,Cr,Pb,Se
Q2838-08MSD	TP-10MSD	1	1454	Ag,As,Ba,Cd,Cr,Pb,Se
Q2838-08A	TP-10A	1	1458	Ba
CCV04	CCV04	1	1558	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	1602	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	1650	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	1700	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	1754	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	1805	Ag,As,Ba,Cd,Cr,Pb,Se

METAL PREPARATION & INSTRUMENT DATA

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

Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE

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

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LAB CHRONICLE

OrderID:	Q2832	**OrderDate:**	8/12/2025 9:37:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	J21,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2832-01	**TG-S01**	**SOIL**			**08/11/25**			**08/12/25**
			Mercury	7471B		08/13/25	08/13/25	
			Metals ICP-TAL	6010D		08/12/25	08/14/25	
Q2832-02	**TG-S01**	**TCLP**			**08/11/25**			**08/12/25**
			TCLP ICP Metals	6010D		08/13/25	08/14/25	
			TCLP Mercury	7470A		08/13/25	08/14/25	
Q2832-03	**TG-S02**	**SOIL**			**08/11/25**			**08/12/25**
			Mercury	7471B		08/13/25	08/13/25	
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2832-04	**TG-S02**	**TCLP**			**08/11/25**			**08/12/25**
			TCLP ICP Metals	6010D		08/13/25	08/14/25	
			TCLP Mercury	7470A		08/13/25	08/14/25	
Q2832-05	**TG-S03**	**SOIL**			**08/11/25**			**08/12/25**
			Mercury	7471B		08/13/25	08/13/25	
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2832-06	**TG-S03**	**TCLP**			**08/11/25**			**08/12/25**
			TCLP ICP Metals	6010D		08/13/25	08/14/25	
			TCLP Mercury	7470A		08/13/25	08/14/25	
Q2832-07	**TG-S04**	**SOIL**			**08/11/25**			**08/12/25**
			Mercury	7471B		08/13/25	08/13/25	
			Metals ICP-TAL	6010D		08/12/25	08/13/25	
Q2832-08	**TG-S04**	**TCLP**			**08/11/25**			**08/12/25**
			TCLP ICP Metals	6010D		08/13/25	08/14/25	
			TCLP Mercury	7470A		08/13/25	08/14/25	
Q2832-09	**TG-S05**	**SOIL**			**08/12/25**			**08/12/25**

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LAB CHRONICLE

			Mercury	7471B		08/13/25	08/13/25
			Metals ICP-TAL	6010D		08/12/25	08/13/25
Q2832-10	**TG-S05**	**TCLP**			**08/12/25**		**08/12/25**
			TCLP ICP Metals	6010D		08/13/25	08/14/25
			TCLP Mercury	7470A		08/13/25	08/14/25

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB169234**						
PB169212TB	PB169212TB	MB	WATER	08/13/2025	3.0	30.0	
PB169234BL	PB169234BL	MB	WATER	08/13/2025	30.0	30.0	
PB169234BS	PB169234BS	LCS	WATER	08/13/2025	30.0	30.0	
Q2832-02	TG-S01	SAM	WATER	08/13/2025	3.0	30.0	
Q2832-04	TG-S02	SAM	WATER	08/13/2025	3.0	30.0	
Q2832-06	TG-S03	SAM	WATER	08/13/2025	3.0	30.0	
Q2832-08	TG-S04	SAM	WATER	08/13/2025	3.0	30.0	
Q2832-10	TG-S05	SAM	WATER	08/13/2025	3.0	30.0	
Q2838-08DUP	TP-10DUP	DUP	WATER	08/13/2025	3.0	30.0	
Q2838-08MS	TP-10MS	MS	WATER	08/13/2025	3.0	30.0	
Q2838-08MSD	TP-10MSD	MSD	WATER	08/13/2025	3.0	30.0	

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Portal Partners Tri-Venture **SDG No.:** Q2832

Contract: PORT06 **Lab Code:** ACE **Method:**

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB169236**						
PB169212TB	PB169212TB	MB	WATER	08/13/2025	5.0	25.0	
PB169236BL	PB169236BL	MB	WATER	08/13/2025	5.0	25.0	
PB169236BS	PB169236BS	LCS	WATER	08/13/2025	5.0	25.0	
Q2832-02	TG-S01	SAM	WATER	08/13/2025	5.0	25.0	
Q2832-04	TG-S02	SAM	WATER	08/13/2025	5.0	25.0	
Q2832-06	TG-S03	SAM	WATER	08/13/2025	5.0	25.0	
Q2832-08	TG-S04	SAM	WATER	08/13/2025	5.0	25.0	
Q2832-10	TG-S05	SAM	WATER	08/13/2025	5.0	25.0	
Q2838-08DUP	TP-10DUP	DUP	WATER	08/13/2025	5.0	25.0	
Q2838-08MS	TP-10MS	MS	WATER	08/13/2025	5.0	25.0	
Q2838-08MSD	TP-10MSD	MSD	WATER	08/13/2025	5.0	25.0	

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136819

Review By	sagar	Review On	8/14/2025 12:47:52 PM
Supervise By	jaswal	Supervise On	8/17/2025 10:52:58 PM

STD. NAME	STD REF.#
ICAL Standard	MP86755,MP86756,MP86757,MP86758,MP86759,MP86760
ICV Standard	MP86761
CCV Standard	MP86763
ICSA Standard	
CRI Standard	MP86765
LCS Standard	
Chk Standard	MP86762,MP86764,MP86766,MP86769

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	08/14/25 10:40		sagar	OK
2	S0.2	S0.2	CAL2	08/14/25 10:42		sagar	OK
3	S2.5	S2.5	CAL3	08/14/25 10:48		sagar	OK
4	S5	S5	CAL4	08/14/25 10:50		sagar	OK
5	S7.5	S7.5	CAL5	08/14/25 10:52		sagar	OK
6	S10	S10	CAL6	08/14/25 10:54		sagar	OK
7	ICV14	ICV14	ICV	08/14/25 10:58		sagar	OK
8	ICB14	ICB14	ICB	08/14/25 11:00		sagar	OK
9	CCV41	CCV41	CCV	08/14/25 11:03		sagar	OK
10	CCB41	CCB41	CCB	08/14/25 11:05		sagar	OK
11	CRA	CRA	CRDL	08/14/25 11:07		sagar	OK
12	HighStd	HighStd	HIGH STD	08/14/25 11:10		sagar	OK
13	ChkStd	ChkStd	SAM	08/14/25 11:12		sagar	OK
14	PB169234BL	PB169234BL	MB	08/14/25 11:17		sagar	OK
15	PB169234BS	PB169234BS	LCS	08/14/25 11:19		sagar	OK
16	Q2732-03	WC-A7-01-C	SAM	08/14/25 11:21		sagar	OK
17	Q2832-02	TG-S01	SAM	08/14/25 11:24		sagar	OK
18	Q2832-04	TG-S02	SAM	08/14/25 11:27		sagar	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136819

Review By	sagar	Review On	8/14/2025 12:47:52 PM
Supervise By	jaswal	Supervise On	8/17/2025 10:52:58 PM

STD. NAME	STD REF.#
ICAL Standard	MP86755,MP86756,MP86757,MP86758,MP86759,MP86760
ICV Standard	MP86761
CCV Standard	MP86763
ICSA Standard	
CRI Standard	MP86765
LCS Standard	
Chk Standard	MP86762,MP86764,MP86766,MP86769

19	Q2832-06	TG-S03	SAM	08/14/25 11:29		sagar	OK
20	Q2832-10	TG-S05	SAM	08/14/25 11:32		sagar	OK
21	CCV42	CCV42	CCV	08/14/25 11:34		sagar	OK
22	CCB42	CCB42	CCB	08/14/25 11:36		sagar	OK
23	Q2836-03	WC-A2-15-C	SAM	08/14/25 11:38		sagar	OK
24	Q2836-07	WC-A2-16-C	SAM	08/14/25 11:41		sagar	OK
25	Q2836-11	WC-A2-17-C	SAM	08/14/25 11:43		sagar	OK
26	Q2836-15	WC-A5-02-C	SAM	08/14/25 11:45		sagar	OK
27	Q2838-04	TP-11	SAM	08/14/25 11:48		sagar	OK
28	Q2838-08	TP-10	SAM	08/14/25 11:50		sagar	OK
29	Q2838-08DUP	TP-10DUP	DUP	08/14/25 11:52		sagar	OK
30	Q2838-08MS	TP-10MS	MS	08/14/25 11:55		sagar	OK
31	Q2838-08MSD	TP-10MSD	MSD	08/14/25 11:57		sagar	OK
32	Q2832-08	TG-S04	SAM	08/14/25 11:59		sagar	OK
33	CCV43	CCV43	CCV	08/14/25 12:01		sagar	OK
34	CCB43	CCB43	CCB	08/14/25 12:04		sagar	OK
35	Q2838-08L	TP-10L	SD	08/14/25 12:06		sagar	OK
36	Q2838-08A	TP-10A	PS	08/14/25 12:08		sagar	OK
37	PB169212TB	PB169212TB	MB	08/14/25 12:11		sagar	OK
38	CCV44	CCV44	CCV	08/14/25 12:13		sagar	OK

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Instrument ID: CV1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136819

Review By	sagar	Review On	8/14/2025 12:47:52 PM
Supervise By	jaswal	Supervise On	8/17/2025 10:52:58 PM

STD. NAME	STD REF.#
ICAL Standard	MP86755,MP86756,MP86757,MP86758,MP86759,MP86760
ICV Standard	MP86761
CCV Standard	MP86763
ICSA Standard	
CRI Standard	MP86765
LCS Standard	
Chk Standard	MP86762,MP86764,MP86766,MP86769

39	CCB44	CCB44	CCB	08/14/25 12:15		sagar	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136837

Review By	Janvi	Review On	8/18/2025 9:13:21 AM
Supervise By	jaswal	Supervise On	8/19/2025 4:32:19 PM

STD. NAME	STD REF.#
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641
ICV Standard	MP86752,MP86656
CCV Standard	MP86646
ICSA Standard	MP86651,MP86753
CRI Standard	MP86656
LCS Standard	
Chk Standard	MP86647,MP86648

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	08/14/25 11:39		Jaswal	OK
2	S1	S1	CAL2	08/14/25 11:44		Jaswal	OK
3	S2	S2	CAL3	08/14/25 11:48		Jaswal	OK
4	S3	S3	CAL4	08/14/25 11:52		Jaswal	OK
5	S4	S4	CAL5	08/14/25 11:56		Jaswal	OK
6	S5	S5	CAL6	08/14/25 12:00		Jaswal	OK
7	ICV01	ICV01	ICV	08/14/25 12:05		Jaswal	OK
8	LLICV01	LLICV01	LLICV	08/14/25 12:09		Jaswal	OK
9	ICB01	ICB01	ICB	08/14/25 12:13		Jaswal	OK
10	CRI01	CRI01	CRDL	08/14/25 12:23		Jaswal	OK
11	ICSA01	ICSA01	ICSA	08/14/25 12:27		Jaswal	OK
12	ICSAB01	ICSAB01	ICSAB	08/14/25 12:38		Jaswal	OK
13	ICSADL	ICSADL	ICSA	08/14/25 12:42		Jaswal	OK
14	ICSABDL	ICSABDL	ICSAB	08/14/25 12:46		Jaswal	OK
15	CCV01	CCV01	CCV	08/14/25 12:50		Jaswal	OK
16	CCB01	CCB01	CCB	08/14/25 12:54		Jaswal	OK
17	Q2832-01	TG-S01	SAM	08/14/25 12:59		Jaswal	OK
18	PB169236BL	PB169236BL	MB	08/14/25 13:03		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136837

Review By	Janvi	Review On	8/18/2025 9:13:21 AM
Supervise By	jaswal	Supervise On	8/19/2025 4:32:19 PM

STD. NAME	STD REF.#
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641
ICV Standard	MP86752,MP86656
CCV Standard	MP86646
ICSA Standard	MP86651,MP86753
CRI Standard	MP86656
LCS Standard	
Chk Standard	MP86647,MP86648

19	PB169236BS	PB169236BS	LCS	08/14/25 13:07		Jaswal	OK
20	PB169232BL	PB169232BL	MB	08/14/25 13:11		Jaswal	OK
21	PB169232BS	PB169232BS	LCS	08/14/25 13:15		Jaswal	OK
22	PB169212TB	PB169212TB	MB	08/14/25 13:19		Jaswal	OK
23	Q2732-03	WC-A7-01-C	SAM	08/14/25 13:24		Jaswal	OK
24	Q2832-02	TG-S01	SAM	08/14/25 13:28		Jaswal	OK
25	Q2832-04	TG-S02	SAM	08/14/25 13:33		Jaswal	OK
26	Q2832-06	TG-S03	SAM	08/14/25 13:37		Jaswal	OK
27	CCV02	CCV02	CCV	08/14/25 13:42		Jaswal	OK
28	CCB02	CCB02	CCB	08/14/25 13:46		Jaswal	OK
29	Q2832-08	TG-S04	SAM	08/14/25 13:50		Jaswal	OK
30	Q2832-10	TG-S05	SAM	08/14/25 13:54		Jaswal	OK
31	Q2836-03	WC-A2-15-C	SAM	08/14/25 13:59		Jaswal	OK
32	Q2836-07	WC-A2-16-C	SAM	08/14/25 14:03		Jaswal	OK
33	Q2836-11	WC-A2-17-C	SAM	08/14/25 14:08		Jaswal	OK
34	Q2836-15	WC-A5-02-C	SAM	08/14/25 14:12		Jaswal	OK
35	Q2838-04	TP-11	SAM	08/14/25 14:17		Jaswal	OK
36	Q2838-08	TP-10	SAM	08/14/25 14:21		Jaswal	OK
37	Q2838-08DUP	TP-10DUP	DUP	08/14/25 14:25		Jaswal	OK
38	Q2838-08L	TP-10L	SD	08/14/25 14:30		Jaswal	OK

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Instrument ID: P4

Daily Analysis Runlog For Sequence/QCBatch ID # LB136837

Review By	Janvi	Review On	8/18/2025 9:13:21 AM
Supervise By	jaswal	Supervise On	8/19/2025 4:32:19 PM

STD. NAME	STD REF.#
ICAL Standard	MP86640,MP86656,MP86653,MP86643,MP86642,MP86641
ICV Standard	MP86752,MP86656
CCV Standard	MP86646
ICSA Standard	MP86651,MP86753
CRI Standard	MP86656
LCS Standard	
Chk Standard	MP86647,MP86648

39	CCV03	CCV03	CCV	08/14/25 14:41		Jaswal	OK
40	CCB03	CCB03	CCB	08/14/25 14:45		Jaswal	OK
41	Q2838-08MS	TP-10MS	MS	08/14/25 14:50		Jaswal	OK
42	Q2838-08MSD	TP-10MSD	MSD	08/14/25 14:54		Jaswal	OK
43	Q2838-08A	TP-10A	PS	08/14/25 14:58	0.1ml of M6004 and M6017 of each in 10ml sample.	Jaswal	OK
44	Q2814-01	TW-84SB-E	SAM	08/14/25 15:02		Jaswal	OK
45	Q2814-03	TW-17M-W	SAM	08/14/25 15:06		Jaswal	OK
46	Q2814-16	FB	SAM	08/14/25 15:10		Jaswal	OK
47	Q2814-17DL	TW-518R-SDL	SAM	08/14/25 15:15	Straight 5x for all elemenst	Jaswal	OK
48	Q2814-22	TW-84SB-E	SAM	08/14/25 15:19	Not used	Jaswal	Not Ok
49	Q2814-23	TW-17M-W	SAM	08/14/25 15:23	Not used	Jaswal	Not Ok
50	Q2815-01	TW-705R-S	SAM	08/14/25 15:27		Jaswal	OK
51	CCV04	CCV04	CCV	08/14/25 15:58		Jaswal	OK
52	CCB04	CCB04	CCB	08/14/25 16:02		Jaswal	OK
53	Q2815-11	TW-22M-W	SAM	08/14/25 16:06		Jaswal	OK
54	Q2815-20	TW-11M-W	SAM	08/14/25 16:10		Jaswal	OK
55	Q2815-25	TW-11M-W	SAM	08/14/25 16:14	Not used	Jaswal	Not Ok
56	Q2815-26	FB	SAM	08/14/25 16:18		Jaswal	OK
57	Q2821-05	GW-COMP	SAM	08/14/25 16:23		Jaswal	OK

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

Instrument ID: P4

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ICSA Standard	MP86651,MP86753
CRI Standard	MP86656
LCS Standard	
Chk Standard	MP86647,MP86648

58	Q2821-08	DM-COMP	SAM	08/14/25 16:27		Jaswal	OK
59	Q2837-01	TW-WTS-13	SAM	08/14/25 16:31		Jaswal	OK
60	Q2837-01DUP	TW-WTS-13DUP	DUP	08/14/25 16:36		Jaswal	OK
61	Q2837-01L	TW-WTS-13L	SD	08/14/25 16:41		Jaswal	OK
62	Q2837-01MS	TW-WTS-13MS	MS	08/14/25 16:45		Jaswal	OK
63	CCV05	CCV05	CCV	08/14/25 16:50		Jaswal	OK
64	CCB05	CCB05	CCB	08/14/25 17:00		Jaswal	OK
65	Q2837-01MSD	TW-WTS-13MSD	MSD	08/14/25 17:04		Jaswal	OK
66	Q2837-01A	TW-WTS-13A	PS	08/14/25 17:09	0.1ml of M6004 and M6017 of each in 10ml sample.	Jaswal	OK
67	Q2858-01	VNJ 216	SAM	08/14/25 17:13		Jaswal	OK
68	Q2858-01DUP	VNJ 216DUP	DUP	08/14/25 17:17		Jaswal	OK
69	Q2858-01L	VNJ 216L	SD	08/14/25 17:21		Jaswal	OK
70	Q2858-01MS	VNJ 216MS	MS	08/14/25 17:25		Jaswal	OK
71	Q2858-01MSD	VNJ 216MSD	MSD	08/14/25 17:29		Jaswal	OK
72	Q2858-01A	VNJ 216A	PS	08/14/25 17:33	0.1ml of M6004 and M6017 of each in 10ml sample.	Jaswal	OK
73	CCV06	CCV06	CCV	08/14/25 17:54		Jaswal	OK
74	CCB06	CCB06	CCB	08/14/25 18:05		Jaswal	OK

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB169234

SOP ID : M7470A-Mercury-20

SDG No : N/A

Matrix : WATER

Pippete ID: HG A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #1

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

Start Digest Date: 08/13/2025 **Time :** 12:30 **Temp :** 95 °C

End Digest Date: 08/13/2025 **Time :** 14:35 **Temp :** 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: SPS.

Supervisor Signature: CRS.

Temp : 1. 95°C 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP86761
CCV	30mL	MP86763
CRA	30mL	MP86765
Blank Spike	0.48mL	MP86754
Matrix Spike	0.48mL	MP86754

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.25mL	MP85892
KMnO4 (5%)	4.5mL	MP85893
K2S2O8 (5%)	2.4mL	MP85894
Hydroxylamine HCL (12%)	2.0mL	MP85895
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	MP86755
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP86756
2.5 ppb	S2.5	30mL	MP86757
5.0 ppb	S5.0	30mL	MP86758
7.5 ppb	S7.5	30mL	MP86759
10.0 ppb	S10.0	30mL	MP86760
ICV	ICV	30mL	MP86761
ICB	ICB	30mL	MP86762
CCV	CCV	30mL	MP86763
CCB	CCB	30mL	MP86764
CRI	CRI	30mL	MP86765
CHK STD	CHK STD	30mL	MP86766

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/13/25 15:32	SPS. metals	CRS. metals
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Mercury Preparation Sheet

PB169234

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB169212TB	PB169212TB	3	30	<2	N/A	1-1
PB169234BL	PBW234	30	30	<2	N/A	2
PB169234BS	LCS234	30	30	<2	MP86754	3
Q2732-03	WC-A7-01-C	3	30	<2	N/A	4
Q2832-02	TG-S01	3	30	<2	N/A	5
Q2832-04	TG-S02	3	30	<2	N/A	6
Q2832-06	TG-S03	3	30	<2	N/A	7
Q2832-08	TG-S04	3	30	<2	N/A	8
Q2832-10	TG-S05	3	30	<2	N/A	9
Q2836-03	WC-A2-15-C	3	30	<2	N/A	10
Q2836-07	WC-A2-16-C	3	30	<2	N/A	11
Q2836-11	WC-A2-17-C	3	30	<2	N/A	12
Q2836-15	WC-A5-02-C	3	30	<2	N/A	13
Q2838-04	TP-11	3	30	<2	N/A	14
Q2838-08	TP-10	3	30	<2	N/A	15
Q2838-08MS	TP-10MS	3	30	<2	MP86754	17
Q2838-08MSD	TP-10MSD	3	30	<2	MP86754	18
Q2838-08DUP	TP-10DUP	3	30	<2	N/A	16

A B C D E F G H I J

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB169236

SOP ID : M3010A-Digestion-17

SDG No : N/A

Start Digest Date: 08/13/2025 **Time :** 12:30 **Temp :** 97 °C

Matrix : WATER

End Digest Date: 08/13/2025 **Time :** 15:32 **Temp :** 97 °C

Pippete ID: ICP A

Digestion tube ID: M5595

Balance ID : N/A

Block thermometer ID: MET-DIG. #1

Filter paper ID : N/A

Dig Technician Signature: S/C

pH Strip ID : M6069

Supervisor Signature:

Hood ID : #3

Temp : **1.** 96°C **2.** N/A

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

Standared Name	MLS USED	STD REF. # FROM LOG
LFS-1	0.25	M6180
LFS-2	0.25	M6181
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 97C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/13/25 16:32	S/C met dig	(illegible)
	Preparation Group	**Analysis Group**

Alliance TECHNICAL GROUP

Water Metals Preparation Sheet

PB169236

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB169212TB	PB169212TB	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	1
PB169236BL	PBW236	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	2
PB169236BS	LCS236	<2	5	25	Colorless	Colorless	Clear	Clear	M6180,M6181	3
Q2732-03	WC-A7-01-C	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	4
Q2832-02	TG-S01	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	5
Q2832-04	TG-S02	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	6
Q2832-06	TG-S03	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	7
Q2832-08	TG-S04	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	8
Q2832-10	TG-S05	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	9
Q2836-03	WC-A2-15-C	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	10
Q2836-07	WC-A2-16-C	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	11
Q2836-11	WC-A2-17-C	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	12
Q2836-15	WC-A5-02-C	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	13
Q2838-04	TP-11	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	14
Q2838-08	TP-10	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	15
Q2838-08MS	TP-10MS	<2	5	25	Colorless	Colorless	Clear	Clear	M6180,M6181	17
Q2838-08MSD	TP-10MSD	<2	5	25	Colorless	Colorless	Clear	Clear	M6180,M6181	18
Q2838-08DUP	TP-10DUP	<2	5	25	Colorless	Colorless	Clear	Clear	N/A	16

A B C D E F G H I J

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB169212

SOP ID : M1311-TCLP-16

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

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 08/12/2025 **Time :** 17:00

End Prep Date : 08/13/2025 **Time :** 10:35

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 10

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : RM

Standared 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	WP112804
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. Particle size reduction is not required. Q2838-08 IS USED for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/13/25 11:50	JP ICP Room	8/13. RJ ICP
	Preparation Group	Analysis Group / MA MSG

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB169212

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
PB169212TB	LEB212	13	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q2732-03	WC-A7-01-C	01	100.02	2000	N/A	N/A	N/A	11.0	1.0	T-1
Q2832-02	TG-S01	02	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q2832-04	TG-S02	03	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q2832-06	TG-S03	04	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2832-08	TG-S04	05	100.01	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2832-10	TG-S05	06	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-1
Q2836-03	WC-A2-15-C	07	100.03	2000	N/A	N/A	N/A	11.5	1.5	T-1
Q2836-07	WC-A2-16-C	08	100.02	2000	N/A	N/A	N/A	11.5	1.0	T-1
Q2836-11	WC-A2-17-C	09	100.03	2000	N/A	N/A	N/A	11.5	1.5	T-1
Q2836-15	WC-A5-02-C	10	100.02	2000	N/A	N/A	N/A	11.0	1.5	T-1
Q2838-04	TP-11	11	100.01	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q2838-08	TP-10	12	100.02	2000	N/A	N/A	N/A	5.6	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB169212TB	LEB212	N/A	N/A	N/A	N/A	N/A	N/A
Q2732-03	WC-A7-01-C	N/A	N/A	N/A	N/A	100	N/A
Q2832-02	TG-S01	N/A	N/A	N/A	N/A	100	N/A
Q2832-04	TG-S02	N/A	N/A	N/A	N/A	100	N/A
Q2832-06	TG-S03	N/A	N/A	N/A	N/A	100	N/A
Q2832-08	TG-S04	N/A	N/A	N/A	N/A	100	N/A
Q2832-10	TG-S05	N/A	N/A	N/A	N/A	100	N/A
Q2836-03	WC-A2-15-C	N/A	N/A	N/A	N/A	100	N/A
Q2836-07	WC-A2-16-C	N/A	N/A	N/A	N/A	100	N/A
Q2836-11	WC-A2-17-C	N/A	N/A	N/A	N/A	100	N/A
Q2836-15	WC-A5-02-C	N/A	N/A	N/A	N/A	100	N/A
Q2838-04	TP-11	N/A	N/A	N/A	N/A	100	N/A
Q2838-08	TP-10	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB169212

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
PB169212TB	LEB212	N/A	N/A	N/A	N/A	#1	4.93
Q2732-03	WC-A7-01-C	5.02	96.5	11.5	4.5	#1	4.93
Q2832-02	TG-S01	5.02	96.5	8.4	3.5	#1	4.93
Q2832-04	TG-S02	5.01	96.5	8.4	3.5	#1	4.93
Q2832-06	TG-S03	5.02	96.5	8.2	3.0	#1	4.93
Q2832-08	TG-S04	5.03	96.5	8.0	3.0	#1	4.93
Q2832-10	TG-S05	5.04	96.5	7.0	2.5	#1	4.93
Q2836-03	WC-A2-15-C	5.03	96.5	12.0	4.5	#1	4.93
Q2836-07	WC-A2-16-C	5.02	96.5	12.0	4.5	#1	4.93
Q2836-11	WC-A2-17-C	5.03	96.5	12.5	4.5	#1	4.93
Q2836-15	WC-A5-02-C	5.02	96.5	11.5	4.5	#1	4.93
Q2838-04	TP-11	5.03	96.5	7.6	3.0	#1	4.93
Q2838-08	TP-10	5.02	96.5	7.2	2.5	#1	4.93