



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25 15:20
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB01	SDG No.:	Q1744
Lab Sample ID:	Q1744-01	Matrix:	SOIL
		% Solid:	90

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.076	U	1	0.076	0.43	mg/Kg	04/07/25 11:40	04/07/25 15:22	7196A
pH	6.52	H	1	0	0	pH		04/07/25 16:30	9045D
Trivalent Chromium	8.24		1	0.56	0.56	mg/Kg		04/10/25 14:15	6010D

Comments: pH result reported at temperature 22.4 °C

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

H = Sample Analysis Out Of Hold Time

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 15:20
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:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.52	H	1	0	0	pH		04/07/25 16:30	9045D
Ignitability	NO		1	0	0	oC		04/08/25 11:10	1030
Reactive Cyanide	0.0083	U	1	0.0083	0.050	mg/Kg	04/07/25 15:00	04/08/25 11:06	9012B
Reactive Sulfide	1.58	J	1	0.20	10.0	mg/Kg	04/08/25 12:50	04/08/25 15:12	9034

Comments: pH result reported at temperature 22.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	04/05/25 17:10
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	04/07/25
Client Sample ID:	B-158-SB02	SDG No.:	Q1744
Lab Sample ID:	Q1744-03	Matrix:	SOIL
		% Solid:	56

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.12	U	1	0.12	0.71	mg/Kg	04/07/25 11:40	04/07/25 15:23	7196A
pH	6.45	H	1	0	0	pH		04/07/25 16:33	9045D
Trivalent Chromium	25.6		1	0.89	0.89	mg/Kg		04/10/25 14:19	6010D

Comments: pH result reported at temperature 22.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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H = Sample Analysis Out Of Hold Time

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 17:10
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:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	6.45	H	1	0	0	pH		04/07/25 16:33	9045D
Ignitability	NO		1	0	0	oC		04/08/25 11:24	1030
Reactive Cyanide	0.0083	U	1	0.0083	0.050	mg/Kg	04/07/25 15:00	04/08/25 11:13	9012B
Reactive Sulfide	1.58	J	1	0.20	10.0	mg/Kg	04/08/25 12:50	04/08/25 15:15	9034

Comments: pH result reported at temperature 23.4 °C

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

H = Sample Analysis Out Of Hold Time

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



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

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

SDG No.: Q1744
RunNo.: LB135327

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	pH	7.01	7	100	90-110	04/07/2025
Sample ID: Corrosivity	CCV1	pH	2.02	2.00	101	90-110	04/07/2025
Sample ID: Corrosivity	CCV2	pH	12.02	12.00	100	90-110	04/07/2025

Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Project: Amtrak Sawtooth Bridges 2025

RunNo.: LB135328

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.01	7	100	90-110	04/07/2025
Sample ID:	CCV1						
pH		pH	2.02	2.00	101	90-110	04/07/2025
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	04/07/2025

Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Project: Amtrak Sawtooth Bridges 2025

RunNo.: LB135331

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.495	0.5	99	90-110	04/07/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.484	0.5	97	90-110	04/07/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.489	0.5	98	90-110	04/07/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.485	0.5	97	90-110	04/07/2025

Initial and Continuing Calibration Verification

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Project: Amtrak Sawtooth Bridges 2025

RunNo.: LB135341

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Reactive Cyanide	mg/L	0.09	0.099	91	85-115	04/08/2025
Sample ID: CCV1 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/08/2025
Sample ID: CCV2 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/08/2025
Sample ID: CCV3 Reactive Cyanide	mg/L	0.24	0.25	96	90-110	04/08/2025

Initial and Continuing Calibration Blank Summary

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

SDG No.: Q1744
RunNo.: LB135331

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	04/07/2025

Initial and Continuing Calibration Blank Summary

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

SDG No.: Q1744
RunNo.: LB135341

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025
Sample ID: CCB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025
Sample ID: CCB2 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025
Sample ID: CCB3 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	04/08/2025

Preparation Blank Summary

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB167461BL Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	04/07/2025
Sample ID: PB167494BL Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	04/08/2025
Sample ID: PB167498BL Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0084	0.05	04/08/2025

Matrix Spike Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q1744
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q1712-01
Client ID:	Z-05AMS	Percent Solids for Spike Sample:	87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1410		0.080	U	1470	40	96		04/07/2025

Matrix Spike Summary

Client:

Portal Partners Tri-Venture

SDG No.:

Q1744

Project:

Amtrak Sawtooth Bridges 2025

Sample ID:

Q1712-01

Client ID:

Z-05AMS

Percent Solids for Spike Sample:

87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	44.1		0.080	U	45.7	2	96		04/07/2025

Matrix Spike Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q1744
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q1712-01
Client ID:	Z-05AMS	Percent Solids for Spike Sample:	87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	37.6		0.080	U	45.7	2	82		04/07/2025

Duplicate Sample Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q1744
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q1712-01
Client ID:	Z-05ADUP	Percent Solids for Spike Sample:	87.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.080	U	0.080	U	1	0		04/07/2025

Duplicate Sample Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q1744
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q1712-04
Client ID:	Z-05ADUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	1.58	J	1.58	J	1	0		04/08/2025

Duplicate Sample Summary

Client: Portal Partners Tri-Venture Project: Amtrak Sawtooth Bridges 2025 Client ID: TT-8DUP	SDG No.: Q1744 Sample ID: Q1732-04 Percent Solids for Spike Sample: 100
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.0083	U	0.0084	U	1	0		04/08/2025

Duplicate Sample Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q1744
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q1744-02
Client ID:	B-158-SB01DUP	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		04/08/2025

Duplicate Sample Summary

Client: Portal Partners Tri-Venture Project: Amtrak Sawtooth Bridges 2025 Client ID: B-149-SB02DUP	SDG No.: Q1744 Sample ID: Q1746-03 Percent Solids for Spike Sample: 100
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pH	pH	+/-20	7.52		7.53		1	0.13		04/07/2025

Duplicate Sample Summary

Client: Portal Partners Tri-Venture Project: Amtrak Sawtooth Bridges 2025 Client ID: B-149-SB02DUP	SDG No.: Q1744 Sample ID: Q1746-04 Percent Solids for Spike Sample: 100
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	7.52		7.53		1	0.13		04/07/2025

Laboratory Control Sample Summary

Client: Portal Partners Tri-Venture

SDG No.: Q1744

Project: Amtrak Sawtooth Bridges 2025

Run No.: LB135331

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167461BS							
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	04/07/2025

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135327

Review By	jignesh	Review On	4/7/2025 4:11:26 PM
Supervise By	Iwona	Supervise On	4/7/2025 4:25:16 PM
SubDirectory	LB135327	Test	Corrosivity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 16:10		Jignesh	OK
2	CAL2	CAL2	CAL	04/07/25 16:11		Jignesh	OK
3	CAL3	CAL3	CAL	04/07/25 16:12		Jignesh	OK
4	ICV	ICV	ICV	04/07/25 16:15		Jignesh	OK
5	CCV1	CCV1	CCV	04/07/25 16:20		Jignesh	OK
6	Q1743-04	TP-16	SAM	04/07/25 16:25		Jignesh	OK
7	Q1744-02	B-158-SB01	SAM	04/07/25 16:30		Jignesh	OK
8	Q1744-04	B-158-SB02	SAM	04/07/25 16:33		Jignesh	OK
9	Q1745-04	IB-6A-WC	SAM	04/07/25 16:40		Jignesh	OK
10	Q1745-12	IB-6.5-WC	SAM	04/07/25 16:47		Jignesh	OK
11	Q1746-02	B-149-SB01	SAM	04/07/25 16:50		Jignesh	OK
12	Q1746-04	B-149-SB02	SAM	04/07/25 17:00		Jignesh	OK
13	Q1746-04DUP	B-149-SB02DUP	DUP	04/07/25 17:01		Jignesh	OK
14	CCV2	CCV2	CCV	04/07/25 17:05		Jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135328

Review By	jignesh	Review On	4/7/2025 4:09:30 PM
Supervise By	Iwona	Supervise On	4/7/2025 4:25:02 PM
SubDirectory	LB135328	Test	pH
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3178,W3093,W3191,W3071,W3161,W3072		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 16:10		Jignesh	OK
2	CAL2	CAL2	CAL	04/07/25 16:11		Jignesh	OK
3	CAL3	CAL3	CAL	04/07/25 16:12		Jignesh	OK
4	ICV	ICV	ICV	04/07/25 16:15		Jignesh	OK
5	CCV1	CCV1	CCV	04/07/25 16:20		Jignesh	OK
6	Q1744-01	B-158-SB01	SAM	04/07/25 16:30		Jignesh	OK
7	Q1744-03	B-158-SB02	SAM	04/07/25 16:33		Jignesh	OK
8	Q1746-01	B-149-SB01	SAM	04/07/25 16:50		Jignesh	OK
9	Q1746-03	B-149-SB02	SAM	04/07/25 17:00		Jignesh	OK
10	Q1746-03DUP	B-149-SB02DUP	DUP	04/07/25 17:01		Jignesh	OK
11	CCV2	CCV2	CCV	04/07/25 17:05		Jignesh	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135331

Review By	rubina	Review On	4/7/2025 4:24:48 PM
Supervise By	Iwona	Supervise On	4/11/2025 3:14:36 PM
SubDirectory	LB135331	Test	Hexavalent Chromium
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP112566,WP110380,WP110381,WP111249		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	04/07/25 14:55		rubina	OK
2	CAL2	CAL2	CAL	04/07/25 14:56		rubina	OK
3	CAL3	CAL3	CAL	04/07/25 14:57		rubina	OK
4	CAL4	CAL4	CAL	04/07/25 14:58		rubina	OK
5	CAL5	CAL5	CAL	04/07/25 14:59		rubina	OK
6	CAL6	CAL6	CAL	04/07/25 15:00		rubina	OK
7	CAL7	CAL7	CAL	04/07/25 15:01		rubina	OK
8	ICV	ICV	ICV	04/07/25 15:02		rubina	OK
9	ICB	ICB	ICB	04/07/25 15:03		rubina	OK
10	CCV1	CCV1	CCV	04/07/25 15:04		rubina	OK
11	CCB1	CCB1	CCB	04/07/25 15:05		rubina	OK
12	RL Check	RL Check	SAM	04/07/25 15:06		rubina	OK
13	PB167461BL	PB167461BL	MB	04/07/25 15:07		rubina	OK
14	PB167461BS	PB167461BS	LCS	04/07/25 15:08		rubina	OK
15	Q1656-04	VNJ239	SAM	04/07/25 15:09		rubina	OK
16	Q1712-01	Z-05A	SAM	04/07/25 15:10		rubina	OK
17	Q1712-01DUP	Z-05ADUP	DUP	04/07/25 15:11		rubina	OK
18	Q1712-01MSPre	Z-05AMS	MS	04/07/25 15:12		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135331

Review By	rubina	Review On	4/7/2025 4:24:48 PM
Supervise By	Iwona	Supervise On	4/11/2025 3:14:36 PM
SubDirectory	LB135331	Test	Hexavalent Chromium
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP112566,WP110380,WP110381,WP111249		

19	Q1712-01MS2Ins	Z-05AMS	MS	04/07/25 15:13		rubina	OK
20	Q1712-01MS3Post	Z-05AMS	MS	04/07/25 15:14		rubina	OK
21	Q1712-05	TT-7	SAM	04/07/25 15:15		rubina	OK
22	Q1732-01	TT-8	SAM	04/07/25 15:16		rubina	OK
23	CCV2	CCV2	CCV	04/07/25 15:17		rubina	OK
24	CCB2	CCB2	CCB	04/07/25 15:18		rubina	OK
25	Q1737-01	RT3069	SAM	04/07/25 15:19		rubina	OK
26	Q1740-01	TP-20	SAM	04/07/25 15:20		rubina	OK
27	Q1743-01	TP-16	SAM	04/07/25 15:21		rubina	OK
28	Q1744-01	B-158-SB01	SAM	04/07/25 15:22		rubina	OK
29	Q1744-03	B-158-SB02	SAM	04/07/25 15:23		rubina	OK
30	Q1745-01	IB-6A-WC	SAM	04/07/25 15:24		rubina	OK
31	Q1745-09	IB-6.5-WC	SAM	04/07/25 15:25		rubina	OK
32	Q1746-01	B-149-SB01	SAM	04/07/25 15:26		rubina	OK
33	Q1746-03	B-149-SB02	SAM	04/07/25 15:27		rubina	OK
34	CCV3	CCV3	CCV	04/07/25 15:28		rubina	OK
35	CCB3	CCB3	CCB	04/07/25 15:29		rubina	OK

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QC Batch ID # LB135338

Review By	rubina	Review On	4/8/2025 4:16:45 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:16:54 PM
SubDirectory	LB135338	Test	Ignitability
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q1744-02	B-158-SB01	SAM	04/08/25 11:10		rubina	OK
2	Q1744-02DUP	B-158-SB01DUP	DUP	04/08/25 11:17		rubina	OK
3	Q1744-04	B-158-SB02	SAM	04/08/25 11:24		rubina	OK
4	Q1745-01	IB-6A-WC	SAM	04/08/25 11:32		rubina	OK
5	Q1745-04	IB-6A-WC	SAM	04/08/25 11:40		rubina	OK
6	Q1745-09	IB-6.5-WC	SAM	04/08/25 11:48		rubina	OK
7	Q1745-12	IB-6.5-WC	SAM	04/08/25 11:55		rubina	OK
8	Q1746-02	B-149-SB01	SAM	04/08/25 12:02		rubina	OK
9	Q1746-04	B-149-SB02	SAM	04/08/25 12:10		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135341

Review By	Niha	Review On	4/8/2025 4:17:46 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:36:03 PM
SubDirectory	LB135341	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112629,WP112630,WP112631,WP112632,WP112633,WP112634,WP112635		
ICV Standard	WP112636		
CCV Standard	WP112630		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111035,WP110103,WP112637		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/08/25 10:23		Niha	OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/08/25 10:23		Niha	OK
3	10PPBCN	10PPBCN	CAL3	04/08/25 10:23		Niha	OK
4	50PPBCN	50PPBCN	CAL4	04/08/25 10:23		Niha	OK
5	100PPBCN	100PPBCN	CAL5	04/08/25 10:23		Niha	OK
6	250PPBCN	250PPBCN	CAL6	04/08/25 10:23		Niha	OK
7	500PPBCN	500PPBCN	CAL7	04/08/25 10:23		Niha	OK
8	ICV1	ICV1	ICV	04/08/25 10:58		Niha	OK
9	ICB1	ICB1	ICB	04/08/25 10:58		Niha	OK
10	CCV1	CCV1	CCV	04/08/25 10:58		Niha	OK
11	CCB1	CCB1	CCB	04/08/25 10:58		Niha	OK
12	PB167498BL	PB167498BL	MB	04/08/25 10:58		Niha	OK
13	Q1732-04	TT-8	SAM	04/08/25 10:58		Niha	OK
14	Q1732-04DUP	TT-8DUP	DUP	04/08/25 11:05		Niha	OK
15	Q1737-02	RT3069	SAM	04/08/25 11:05		Niha	OK
16	Q1740-04	TP-20	SAM	04/08/25 11:05		Niha	OK
17	Q1743-04	TP-16	SAM	04/08/25 11:05		Niha	OK
18	Q1744-02	B-158-SB01	SAM	04/08/25 11:06		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135341

Review By	Niha	Review On	4/8/2025 4:17:46 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:36:03 PM
SubDirectory	LB135341	Test	Reactive Cyanide
STD. NAME	STD REF.#		
ICAL Standard	WP112629,WP112630,WP112631,WP112632,WP112633,WP112634,WP112635		
ICV Standard	WP112636		
CCV Standard	WP112630		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP111035,WP110103,WP112637		

19	Q1744-04	B-158-SB02	SAM	04/08/25 11:13		Niha	OK
20	Q1745-04	IB-6A-WC	SAM	04/08/25 11:13		Niha	OK
21	Q1745-12	IB-6.5-WC	SAM	04/08/25 11:13		Niha	OK
22	CCV2	CCV2	CCV	04/08/25 11:13		Niha	OK
23	CCB2	CCB2	CCB	04/08/25 11:20		Niha	OK
24	Q1746-02	B-149-SB01	SAM	04/08/25 11:21		Niha	OK
25	Q1746-04	B-149-SB02	SAM	04/08/25 11:21		Niha	OK
26	PB167505BL	PB167505BL	MB	04/08/25 11:21		Niha	OK
27	Q1739-02	WC-LIQUID-20250404	SAM	04/08/25 11:28		Niha	OK
28	Q1739-02DUP	WC-LIQUID-20250404	DUP	04/08/25 11:28		Niha	OK
29	CCV3	CCV3	CCV	04/08/25 11:28		Niha	OK
30	CCB3	CCB3	CCB	04/08/25 11:28		Niha	OK

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135345

Review By	rubina	Review On	4/8/2025 3:47:43 PM
Supervise By	Iwona	Supervise On	4/8/2025 4:16:02 PM
SubDirectory	LB135345	Test	Reactive Sulfide
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	W3105,W3114,W3149		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB167494BL	PB167494BL	MB	04/08/25 14:50		rubina	OK
2	Q1712-04	Z-05A	SAM	04/08/25 14:53		rubina	OK
3	Q1712-04DUP	Z-05ADUP	DUP	04/08/25 14:56		rubina	OK
4	Q1712-08	TT-7	SAM	04/08/25 14:58		rubina	OK
5	Q1732-04	TT-8	SAM	04/08/25 15:00		rubina	OK
6	Q1737-02	RT3069	SAM	04/08/25 15:03		rubina	OK
7	Q1740-04	TP-20	SAM	04/08/25 15:06		rubina	OK
8	Q1743-04	TP-16	SAM	04/08/25 15:09		rubina	OK
9	Q1744-02	B-158-SB01	SAM	04/08/25 15:12		rubina	OK
10	Q1744-04	B-158-SB02	SAM	04/08/25 15:15		rubina	OK
11	Q1745-04	IB-6A-WC	SAM	04/08/25 15:18		rubina	OK
12	Q1745-12	IB-6.5-WC	SAM	04/08/25 15:20		rubina	OK
13	Q1746-02	B-149-SB01	SAM	04/08/25 15:22		rubina	OK
14	Q1746-04	B-149-SB02	SAM	04/08/25 15:24		rubina	OK
15	Q1748-04	IB-1.5-WC	SAM	04/08/25 15:26		rubina	OK
16	Q1748-08	IB-2A-WC	SAM	04/08/25 15:28		rubina	OK
17	Q1749-04	TP-14	SAM	04/08/25 15:30		rubina	OK

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 15:20			04/07/25
			Hexavalent Chromium	7196A		04/07/25	04/07/25 15:22	
			pH	9045D			04/07/25 16:30	
			Trivalent Chromium	6010D			04/10/25 14:15	
Q1744-02	B-158-SB01	SOIL			04/05/25 15:20			04/07/25
			Corrosivity	9045D			04/07/25 16:30	
			Ignitability	1030			04/08/25 11:10	
			Reactive Cyanide	9012B		04/07/25	04/08/25 11:06	
			Reactive Sulfide	9034		04/08/25	04/08/25 15:12	
Q1744-03	B-158-SB02	SOIL			04/05/25 17:10			04/07/25
			Hexavalent Chromium	7196A		04/07/25	04/07/25 15:23	
			pH	9045D			04/07/25 16:33	
			Trivalent Chromium	6010D			04/10/25 14:19	
Q1744-04	B-158-SB02	SOIL			04/05/25 17:10			04/07/25
			Corrosivity	9045D			04/07/25 16:33	

LAB CHRONICLE

Ignitability	1030		04/08/25 11:24
Reactive Cyanide	9012B	04/07/25	04/08/25 11:13
Reactive Sulfide	9034	04/08/25	04/08/25 15:15

A

C

D

E

F

SOP ID : M3060A,7196A-Hex.Chromium-26

SDG No : N/A

Start Digest Date: 04/07/2025 Time : 11:40 Temp : 90 °C

Matrix : SOIL

End Digest Date: 04/07/2025 Time : 12:40 Temp : 95 °C

Pipette ID : WC

IT batch 04/07/2025 13:00 90 °C } RM
04/07/2025 14:00 95 °C

Balance ID : WC SC-7

Hood ID : HOOD#3

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

Block ID : WC S-2, WC S-1

Filter paper ID : 400213

Prep Technician Signature: RM

Weigh By : RM

pH Meter ID : WC pH meter-1

Supervisor Signature: 12

Standardized Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP111315
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP111315
LCSS	1.0ML	WP111316
PBS003	50ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP112281
5M HNO3	5-7ML	WP110381
5N H2SO4	1-3ML	WP110380
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	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP112618
CAL3	CAL3	0.5ML	WP112618
CAL4	CAL4	1ML	WP112618
CAL5	CAL5	0.2ML	WP111315
CAL6	CAL6	1ML	WP111315
CAL7	CAL7	2.0ML	WP111315
ICV	ICV	1ML	WP111316
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP111315
CCB	CCB	2.5ML	W3112

Extraction Conformance/Non-Conformance Comments:

04/07/2025 RM

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
PB167461BL	PBS461	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB167461BS	LCS461	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1656-04	VNJ239	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01	Z-05A	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01DUP	Z-05ADUP	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01MSPre	Z-05AMSPRE	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01MS2Ins	Z-05AMS2INS	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-01MS3Post	Z-05AMS3POST	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-05	TT-7	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-01	TT-8	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1737-01	RT3069	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1740-01	TP-20	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-01	TP-16	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-01	B-158-SB01	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-03	B-158-SB02	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-01	IB-6A-WC	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-09	IB-6.5-WC	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-01	B-149-SB01	2.58	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-03	B-149-SB02	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A

SOP ID : M9030B-Sulfide-12

SDG No : N/A

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1,MC-2

Weigh By : RM

Start Digest Date: 04/08/2025 Time : 12:50 Temp : N/A

End Digest Date: 04/08/2025 Time : 14:20 Temp : N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature: RM

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
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 USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP111004
FORMALDEHYDE	2.0ML	W2725
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

04/08/2025
RM

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167494BL	PBS494	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-04DUP	Z-05ADUP	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-04	Z-05A	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1712-08	TT-7	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04	TT-8	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1737-02	RT3069	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1740-04	TP-20	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-02	B-158-SB01	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-04	B-158-SB02	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-04	IB-6A-WC	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-12	IB-6.5-WC	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-02	B-149-SB01	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-04	B-149-SB02	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1748-04	IB-1.5-WC	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1748-08	IB-2A-WC	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1749-04	TP-14	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-20

SDG No : N/A NF Start Digest Date: 04/07/2025 04/08/2025 Time : 15:00 Temp : N/A

Matrix : SOIL 04/11/25 End Digest Date: 04/08/2025 Time : 16:30 Temp : N/A

Pipette ID : N/A 04/07/2025

Balance ID : WC SC-7

Hood ID : HOOD#1 Digestion tube ID : M5595 Block Thermometer ID : WC CYANIDE

Block ID : MC-1, MC-2 Filter paper ID : N/A Prep Technician Signature: NF

Weigh By : NF pH Meter ID : N/A Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
PBS003	50ML	W3112
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 USED	Lot Number
0.25N NaOH	50.0ML	WP111294
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
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/08/2025 16:45	NF/WC	NF/WC
04/07/2025	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
PB167498BL	PBS498	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04DUP	TT-8DUP	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1732-04	TT-8	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1737-02	RT3069	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1740-04	TP-20	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1743-04	TP-16	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-02	B-158-SB01	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1744-04	B-158-SB02	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-04	IB-6A-WC	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1745-12	IB-6.5-WC	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-02	B-149-SB01	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1746-04	B-149-SB02	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A