



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/23/25 15:00
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB01	SDG No.:	Q1422
Lab Sample ID:	Q1422-01	Matrix:	SOIL
		% Solid:	88.4

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.087	U	1	0.087	0.44	mg/Kg	02/26/25 10:40	02/26/25 15:26	7196A
Trivalent Chromium	11.5		1	0.57	0.57	mg/Kg		03/10/25 15:18	6010D

Comments: _____

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:	02/23/25 15:30
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/25/25
Client Sample ID:	B-154-SB02	SDG No.:	Q1422
Lab Sample ID:	Q1422-02	Matrix:	SOIL
		% Solid:	87.3

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.088	U	1	0.088	0.45	mg/Kg	02/26/25 10:40	02/26/25 15:27	7196A
Trivalent Chromium	10.5		1	0.57	0.57	mg/Kg		03/10/25 15:22	6010D

Comments:

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LOQ = Limit of Quantitation
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J = Estimated Value
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* = indicates the duplicate analysis is not within control limits.
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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.: Q1422
RunNo.: LB134815

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV Hexavalent Chromium	mg/L	0.501	0.5	100	90-110	02/26/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.497	0.5	99	90-110	02/26/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	02/26/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	02/26/2025

Initial and Continuing Calibration Blank Summary

Client: Portal Partners Tri-Venture

SDG No.: Q1422

Project: Amtrak Sawtooth Bridges 2025

RunNo.: LB134815

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	02/26/2025

Preparation Blank Summary

Client: Portal Partners Tri-Venture

SDG No.: Q1422

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB166851BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	02/26/2025

Matrix Spike Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q1422
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q1415-01
Client ID:	B-163-SB01MS	Percent Solids for Spike Sample:	88.5

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	1370		0.087	U	1450	40	94		02/26/2025

Matrix Spike Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q1422
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q1415-01
Client ID:	B-163-SB01MS	Percent Solids for Spike Sample:	88.5

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	43.4		0.087	U	45.2	2	96		02/26/2025

Matrix Spike Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q1422
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q1415-01
Client ID:	B-163-SB01MS	Percent Solids for Spike Sample:	88.5

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	37.8		0.087	U	45.2	2	84		02/26/2025

Duplicate Sample Summary

Client: Portal Partners Tri-Venture Project: Amtrak Sawtooth Bridges 2025 Client ID: B-163-SB01DUP	SDG No.: Q1422 Sample ID: Q1415-01 Percent Solids for Spike Sample: 88.5
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Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.087	U	0.087	U	1	0		02/26/2025

Laboratory Control Sample Summary

Client: Portal Partners Tri-Venture

SDG No.: Q1422

Project: Amtrak Sawtooth Bridges 2025

Run No.: LB134815

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB166851BS							
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	02/26/2025

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134815

Review By	rubina	Review On	2/27/2025 9:48:52 AM
Supervise By	Iwona	Supervise On	3/7/2025 8:57:36 AM
SubDirectory	LB134815	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	WP112061,WP110380,WP110381,WP111249		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	02/26/25 15:00		rubina	OK
2	CAL2	CAL2	CAL	02/26/25 15:01		rubina	OK
3	CAL3	CAL3	CAL	02/26/25 15:02		rubina	OK
4	CAL4	CAL4	CAL	02/26/25 15:03		rubina	OK
5	CAL5	CAL5	CAL	02/26/25 15:04		rubina	OK
6	CAL6	CAL6	CAL	02/26/25 15:05		rubina	OK
7	CAL7	CAL7	CAL	02/26/25 15:06		rubina	OK
8	ICV	ICV	ICV	02/26/25 15:07		rubina	OK
9	ICB	ICB	ICB	02/26/25 15:08		rubina	OK
10	CCV1	CCV1	CCV	02/26/25 15:09		rubina	OK
11	CCB1	CCB1	CCB	02/26/25 15:10		rubina	OK
12	RL Check	RL Check	SAM	02/26/25 15:11		rubina	OK
13	PB166851BL	PB166851BL	MB	02/26/25 15:12		rubina	OK
14	PB166851BS	PB166851BS	LCS	02/26/25 15:13		rubina	OK
15	Q1415-01	B-163-SB01	SAM	02/26/25 15:14		rubina	OK
16	Q1415-01DUP	B-163-SB01DUP	DUP	02/26/25 15:15		rubina	OK
17	Q1415-01MSPre	B-163-SB01MS	MS	02/26/25 15:16		rubina	OK
18	Q1415-01MS2Ins	B-163-SB01MS	MS	02/26/25 15:17		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134815

Review By	rubina	Review On	2/27/2025 9:48:52 AM
Supervise By	Iwona	Supervise On	3/7/2025 8:57:36 AM
SubDirectory	LB134815	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	WP112061,WP110380,WP110381,WP111249		

19	Q1415-01MS3Post	B-163-SB01MS	MS	02/26/25 15:18		rubina	OK
20	Q1415-02	B-172-SB01	SAM	02/26/25 15:19		rubina	OK
21	Q1415-03	B-163-SB02	SAM	02/26/25 15:20		rubina	OK
22	Q1415-04	B-172-SB02	SAM	02/26/25 15:21		rubina	OK
23	CCV2	CCV2	CCV	02/26/25 15:22		rubina	OK
24	CCB2	CCB2	CCB	02/26/25 15:23		rubina	OK
25	Q1420-01	TP-1-WC	SAM	02/26/25 15:24		rubina	OK
26	Q1420-05	TP-2-WC	SAM	02/26/25 15:25		rubina	OK
27	Q1422-01	B-154-SB01	SAM	02/26/25 15:26		rubina	OK
28	Q1422-02	B-154-SB02	SAM	02/26/25 15:27		rubina	OK
29	Q1427-01	VNJ-227	SAM	02/26/25 15:28		rubina	OK
30	Q1428-01	NB-07-022525	SAM	02/26/25 15:29		rubina	OK
31	CCV3	CCV3	CCV	02/26/25 15:30		rubina	OK
32	CCB3	CCB3	CCB	02/26/25 15:31		rubina	OK

LAB CHRONICLE

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

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1422-01	B-154-SB01	SOIL			02/23/25 15:00	02/26/25		02/25/25
			Hexavalent Chromium	7196A			02/26/25 15:26	
			Trivalent Chromium	6010D			03/10/25 15:18	
Q1422-02	B-154-SB02	SOIL			02/23/25 15:30	02/26/25		02/25/25
			Hexavalent Chromium	7196A			02/26/25 15:27	
			Trivalent Chromium	6010D			03/10/25 15:22	

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

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#3

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

Weigh By : RM

Start Digest Date: 02/26/2025 Time : 10:40 Temp : 90 °C

End Digest Date: 02/26/2025 Time : 11:40 Temp : 95 °C

11 batch
 02/26/2025 12:00 90°C JR
 02/26/2025 13:00 95°C JR

Digestion tube ID : M6054

Filter paper ID : 400213

pH Meter ID : WC pH meter-1

Block Thermometer ID : WC-Block#1

 Prep Technician Signature: *Rpf*

 Supervisor Signature: *12*

Standard 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	50.0ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP110498
HEX. DIGESTION SOLN.	50.0ML	WP111908
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	WP112057
CAL3	CAL3	0.5ML	WP112057
CAL4	CAL4	1ML	WP112057
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:

N/A

 02/26/2025 *214*

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
PB166851BL	PBS851	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB166851BS	LCS851	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01	B-163-SB01	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01DUP	B-163-SB01DUP	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01MSPre	B-163-SB01MSPRE	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01MS2Ins	B-163-SB01MS2INS	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-01MS3Post	B-163-SB01MS3POST	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-02	B-172-SB01	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-03	B-163-SB02	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1415-04	B-172-SB02	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1420-01	TP-1-WC	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1420-05	TP-2-WC	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1422-01	B-154-SB01	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1422-02	B-154-SB02	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1427-01	VNJ-227	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q1428-01	NB-07-022525	2.56	100	N/A	N/A	N/A	N/A	N/A	N/A