



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/23/25 14:45
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/23/25
Client Sample ID:	B-156-SB01	SDG No.:	Q2400
Lab Sample ID:	Q2400-01	Matrix:	SOIL
		% Solid:	84.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.082	U	1	0.082	0.47	mg/Kg	06/24/25 09:00	06/24/25 12:57	7196A
Trivalent Chromium	10.6		1	0.59	0.59	mg/Kg		06/27/25 17:31	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:	06/23/25 14:50
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/23/25
Client Sample ID:	B-134-SB01	SDG No.:	Q2400
Lab Sample ID:	Q2400-02	Matrix:	SOIL
		% Solid:	83

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Hexavalent Chromium	0.083	U	1	0.083	0.47	mg/Kg	06/24/25 09:00	06/24/25 12:58	7196A
Trivalent Chromium	31.3		1	0.60	0.60	mg/Kg		06/27/25 17:36	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
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 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.: Q2400
RunNo.: LB136245

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	06/24/2025
Sample ID: CCV1 Hexavalent Chromium	mg/L	0.494	0.5	99	90-110	06/24/2025
Sample ID: CCV2 Hexavalent Chromium	mg/L	0.497	0.5	99	90-110	06/24/2025
Sample ID: CCV3 Hexavalent Chromium	mg/L	0.495	0.5	99	90-110	06/24/2025

Initial and Continuing Calibration Blank Summary

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

SDG No.: Q2400
RunNo.: LB136245

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	06/24/2025
Sample ID: CCB1 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/24/2025
Sample ID: CCB2 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/24/2025
Sample ID: CCB3 Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	06/24/2025

Preparation Blank Summary

Client: Portal Partners Tri-Venture

SDG No.: Q2400

Project: Amtrak Sawtooth Bridges 2025

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB168573BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	06/24/2025

Matrix Spike Summary

Client:

Portal Partners Tri-Venture

SDG No.:

Q2400

Project:

Amtrak Sawtooth Bridges 2025

Sample ID:

Q2389-01

Client ID:

MH-J-IMS

Percent Solids for Spike Sample:

89

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	1380		0.078	U	1440	40	96		06/24/2025

Matrix Spike Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q2400
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q2389-01
Client ID:	MH-J-IMS	Percent Solids for Spike Sample:	89

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	42.1		0.078	U	44.9	2	94		06/24/2025

Matrix Spike Summary

Client:	Portal Partners Tri-Venture	SDG No.:	Q2400
Project:	Amtrak Sawtooth Bridges 2025	Sample ID:	Q2389-01
Client ID:	MH-J-IMS	Percent Solids for Spike Sample:	89

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	34.6		0.078	U	44.9	2	77		06/24/2025

Duplicate Sample Summary

Client: Portal Partners Tri-Venture Project: Amtrak Sawtooth Bridges 2025 Client ID: MH-J-IDUP	SDG No.: Q2400 Sample ID: Q2389-01 Percent Solids for Spike Sample: 89
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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	0.078	U	0.078	U	1	0		06/24/2025

Laboratory Control Sample Summary

Client: Portal Partners Tri-Venture

SDG No.: Q2400

Project: Amtrak Sawtooth Bridges 2025

Run No.: LB136245

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB168573BS							
Hexavalent Chromium	mg/Kg	20	20.0		100	1	84-110	06/24/2025

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136245

Review By	rubina	Review On	6/24/2025 2:17:36 PM
Supervise By	Iwona	Supervise On	6/26/2025 3:41:50 PM
SubDirectory	LB136245	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	WP113606,WP112831,WP112830,WP113087		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	06/24/25 12:30		rubina	OK
2	CAL2	CAL2	CAL	06/24/25 12:31		rubina	OK
3	CAL3	CAL3	CAL	06/24/25 12:32		rubina	OK
4	CAL4	CAL4	CAL	06/24/25 12:33		rubina	OK
5	CAL5	CAL5	CAL	06/24/25 12:34		rubina	OK
6	CAL6	CAL6	CAL	06/24/25 12:35		rubina	OK
7	CAL7	CAL7	CAL	06/24/25 12:36		rubina	OK
8	ICV	ICV	ICV	06/24/25 12:37		rubina	OK
9	ICB	ICB	ICB	06/24/25 12:38		rubina	OK
10	CCV1	CCV1	CCV	06/24/25 12:39		rubina	OK
11	CCB1	CCB1	CCB	06/24/25 12:40		rubina	OK
12	RL Check	RL Check	RL	06/24/25 12:41		rubina	OK
13	PB168573BL	PB168573BL	MB	06/24/25 12:42		rubina	OK
14	PB168573BS	PB168573BS	LCS	06/24/25 12:43		rubina	OK
15	Q2384-01	OK-01-6202025	SAM	06/24/25 12:44		rubina	OK
16	Q2386-01	SU-1-062025	SAM	06/24/25 12:45		rubina	OK
17	Q2388-01	TP-12	SAM	06/24/25 12:46		rubina	OK
18	Q2389-01	MH-J-I	SAM	06/24/25 12:47		rubina	OK

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136245

Review By	rubina	Review On	6/24/2025 2:17:36 PM
Supervise By	Iwona	Supervise On	6/26/2025 3:41:50 PM
SubDirectory	LB136245	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	WP113606,WP112831,WP112830,WP113087		

19	Q2389-01DUP	MH-J-IDUP	DUP	06/24/25 12:48		rubina	OK
20	Q2389-01MSPre	MH-J-IMS	MS	06/24/25 12:49		rubina	OK
21	Q2389-01MS2Ins	MH-J-IMS	MS	06/24/25 12:50		rubina	OK
22	Q2389-01MS3Post	MH-J-IMS	MS	06/24/25 12:51		rubina	OK
23	CCV2	CCV2	CCV	06/24/25 12:52		rubina	OK
24	CCB2	CCB2	CCB	06/24/25 12:53		rubina	OK
25	Q2394-01	MH-K/L	SAM	06/24/25 12:54		rubina	OK
26	Q2399-01	TP-13	SAM	06/24/25 12:55		rubina	OK
27	Q2399-05	EP-7	SAM	06/24/25 12:56		rubina	OK
28	Q2400-01	B-156-SB01	SAM	06/24/25 12:57		rubina	OK
29	Q2400-02	B-134-SB01	SAM	06/24/25 12:58		rubina	OK
30	CCV3	CCV3	CCV	06/24/25 12:59		rubina	OK
31	CCB3	CCB3	CCB	06/24/25 13:00		rubina	OK

LAB CHRONICLE

OrderID:	Q2400	OrderDate:	6/23/2025 4:35:00 PM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	A42

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2400-01	B-156-SB01	SOIL			06/23/25 14:45	06/24/25	06/24/25 12:57	06/23/25
			Hexavalent Chromium	7196A				
			Trivalent Chromium	6010D			06/27/25 17:31	
Q2400-02	B-134-SB01	SOIL			06/23/25 14:50	06/24/25	06/24/25 12:58	06/23/25
			Hexavalent Chromium	7196A				
			Trivalent Chromium	6010D			06/27/25 17:36	

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

SDG No : N/A

Matrix : SOIL

Pipette 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: 06/24/2025 Time : 09:00 Temp : 90 °C

End Digest Date: 06/24/2025 Time : 10:00 Temp : 94 °C

11 batch 06/24/2025 10:25 90 °C
06/24/2025 11:25 94 °C

Digestion tube ID : M6054

Block Thermometer ID : WC-Block#1

Filter paper ID : 400213

Prep Technician Signature: RM

pH Meter ID : WC pH meter-1

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.ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP112903
HEX. DIGESTION SOLN.	50.0ML	WP113608
5M HNO3	5-7ML	WP112830
5N H2SO4	1-3ML	WP112831
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	WP113643
CAL3	CAL3	0.5ML	WP113643
CAL4	CAL4	1ML	WP113643
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

06/24/2025 12:14

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
PB168573BL	PBS573	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB168573BS	LCS573	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2384-01	OK-01-6202025	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2386-01	SU-1-062025	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2388-01	TP-12	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2389-01	MH-J-I	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2389-01DUP	MH-J-IDUP	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2389-01MSPre	MH-J-IMSPRE	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2389-01MS2Ins	MH-J-IMS2INS	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2389-01MS3Post	MH-J-IMS3POST	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2394-01	MH-K/L	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2399-01	TP-13	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2399-05	EP-7	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2400-01	B-156-SB01	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2400-02	B-134-SB01	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A