

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS

PROJECT NAME : AMTRAK SAWTOOTH BRIDGES 2024

PORTAL PARTNERS TRI-VENTURE

c/o Gannett Fleming Inc. Transit and Rail System

207 Senate Avenue

Camp Hill, PA - 17011

Phone No: 610-650-8101

ORDER ID : P4578

ATTENTION : Joseph Krupansky



Laboratory Certification ID # 20012



Hit Summary Sheet SW-846

SDG No.: P4578
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	WB-305-SW							
P4578-01	WB-305-SW	Water	Acetone	2.20	J	1.40	5.00	ug/L
P4578-01	WB-305-SW	Water	Methylene Chloride	0.36	J	0.32	1.00	ug/L
			Total Voc :	2.56				
			Total Concentration:	2.56				
Client ID:	WB-305-SW-1							
P4578-02	WB-305-SW-1	Water	Acetone	2.40	J	1.40	5.00	ug/L
			Total Voc :	2.40				
			Total Concentration:	2.40				
Client ID:	WB-305-TOP							
P4578-03	WB-305-TOP	SOIL	Acetone	80.6		9.70	38.8	ug/Kg
P4578-03	WB-305-TOP	SOIL	Methyl Acetate	54.2		2.80	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	2-Butanone	18.5	J	8.80	38.8	ug/Kg
P4578-03	WB-305-TOP	SOIL	Methylcyclohexane	2.30	J	1.30	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	Toluene	20.4		1.00	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	Ethyl Benzene	1.60	J	0.96	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	m/p-Xylenes	5.20	J	2.10	15.5	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Xylene	5.40	J	1.10	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	Isopropylbenzene	7.10	J	1.00	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	1,3-Dichlorobenzene	2.10	J	1.10	7.80	ug/Kg
			Total Voc :	197				
P4578-03	WB-305-TOP	SOIL	unknown14.005	* 130	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown14.535	* 140	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 1,2,4,5-tetramethyl-	* 270	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Cymene	* 140	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 1-methyl-3-(1-methyl	* 320	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 1-ethenyl-4-methyl-	* 160	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	1H-Indene, 2,3-dihydro-5-meth	* 160	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	3-Phenylbut-1-ene	* 350	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethyl-1,4-dimethyl-	* 110	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethyl-1,3-dimethyl-	* 360	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-propylbenzene	* 2.70	J	0.99	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	1,3,5-Trimethylbenzene	* 9.50	J	0.99	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	1,2,4-Trimethylbenzene	* 47.8	J	2.10	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	sec-Butylbenzene	* 4.40	J	1.00	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	p-Isopropyltoluene	* 5.60	J	0.90	7.80	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-Butylbenzene	* 24.2	J	0.98	7.80	ug/Kg

Hit Summary Sheet SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	1,4-Dioxane	* 200	J	65.9	160	ug/Kg
Client ID: WB-305-TOP-1			Total Tics :	2430				
			Total Concentration:	2630				
	P4578-04	WB-305-TOP-1	SOIL	Acetone	48.0	7.40	29.6	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Carbon Disulfide	3.60	J 1.50	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Methyl Acetate	91.9	2.10	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	2-Butanone	12.7	J 6.70	29.6	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Methylcyclohexane	1.90	J 1.00	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Toluene	4.20	J 0.79	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	o-Xylene	3.40	J 0.83	5.90	ug/Kg
	P4578-04	WB-305-TOP-1	SOIL	Isopropylbenzene	5.00	J 0.79	5.90	ug/Kg
			Total Voc :	171				
P4578-04	WB-305-TOP-1	SOIL	unknown14.529	* 60.2	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Benzene, 1,2,3,5-tetramethyl-	* 110	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Tridecane	* 55.0	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	1H-Indene, 2,3-dihydro-5-meth	* 86.6	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	3-Phenylbut-1-ene	* 190	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Benzene, 1-ethyl-3,5-dimethyl-	* 150	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Benzene, 4-ethyl-1,2-dimethyl-	* 120	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	Benzene, 1-methyl-2-(2-propen	* 59.9	J 0	0	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	n-propylbenzene	* 1.20	J 0.76	5.90	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	1,3,5-Trimethylbenzene	* 6.10	J 0.76	5.90	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	1,2,4-Trimethylbenzene	* 24.9	J 1.60	5.90	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	p-Isopropyltoluene	* 2.60	J 0.69	5.90	ug/Kg	
P4578-04	WB-305-TOP-1	SOIL	n-Butylbenzene	* 5.70	J 0.75	5.90	ug/Kg	
Client ID: WB-305-BOT			Total Tics :	872				
			Total Concentration:	1040				
	P4578-05	WB-305-BOT	SOIL	Carbon Disulfide	1.70	J 0.96	3.80	ug/Kg
			Total Voc :	1.70				
	P4578-05	WB-305-BOT	SOIL	Benzene, 1,2,4,5-tetramethyl-	* 17.3	J 0	0	ug/Kg
	P4578-05	WB-305-BOT	SOIL	p-Cymene	* 7.20	J 0	0	ug/Kg
	P4578-05	WB-305-BOT	SOIL	o-Cymene	* 6.70	J 0	0	ug/Kg
	P4578-05	WB-305-BOT	SOIL	1H-Indene, 2,3-dihydro-5-meth	* 8.50	J 0	0	ug/Kg
	P4578-05	WB-305-BOT	SOIL	Benzene, 1-ethyl-2,3-dimethyl-	* 20.1	J 0	0	ug/Kg
	P4578-05	WB-305-BOT	SOIL	Benzene, 1-ethyl-3,5-dimethyl-	* 23.7	J 0	0	ug/Kg

Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-05	WB-305-BOT	SOIL	Benzene, 2-ethyl-1,4-dimethyl-	* 8.30	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Benzene, 1,3-diethyl-5-methyl-	* 8.20	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Cyclopropane, 1-methyl-1-pher	* 23.1	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	1,4-Cyclohexadiene, 3-ethenyl-	* 7.60	J	0	0	ug/Kg
Total Tics :				131				
Total Concentration:				132				
Client ID:	WB-305-BOT-1							
P4578-07	WB-305-BOT-1	SOIL	Naphthalene, 1,3-dimethyl-	* 8.10	J	0	0	ug/Kg
Total Tics :				8.10				
Total Concentration:				8.10				
Client ID:	TB-10252024							
P4578-09	TB-10252024	Water	Acetone	1.70	J	1.40	5.00	ug/L
Total Voc :				1.70				
Total Concentration:				1.70				



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID:

0

Total Voc :

Total Concentration:

Hit Summary Sheet SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-305-SW								
P4578-01	WB-305-SW	WATER	9-Tricosene, (Z)-	*	5.800	J 0	0	ug/L
P4578-01	WB-305-SW	WATER	Benzophenone	*	7.300	J 0	0	ug/L
P4578-01	WB-305-SW	WATER	Butane, 2-methoxy-2-methyl-	*	87.000	J 0	0	ug/L
P4578-01	WB-305-SW	WATER	n-Hexadecanoic acid	*	9.000	J 0	0	ug/L
P4578-01	WB-305-SW	WATER	Octadecanoic acid	*	3.600	J 0	0	ug/L
Total Tics :					112.70			
Total Concentration:					112.70			
Client ID : WB-305-SW-1								
P4578-02	WB-305-SW-1	WATER	Benzophenone	*	7.300	J 0	0	ug/L
P4578-02	WB-305-SW-1	WATER	Butane, 2-methoxy-2-methyl-	*	110.000	J 0	0	ug/L
Total Tics :					117.30			
Total Concentration:					117.30			
Client ID : WB-305-TOP								
P4578-03	WB-305-TOP	SOIL	Naphthalene		210.000	J 150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	2-Methylnaphthalene		190.000	J 150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Acenaphthene		190.000	J 150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Fluorene		160.000	J 160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene		640.000	160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Anthracene		270.000	J 160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Fluoranthene		610.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Pyrene		850.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(a)anthracene		550.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Chrysene		580.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(b)fluoranthene		400.000	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(k)fluoranthene		160.000	J 150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(a)pyrene		530.000	170	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Indeno(1,2,3-cd)pyrene		180.000	J 140	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(g,h,i)perylene		230.000	J 150	320	ug/Kg
Total Svoc :					5,750.00			
P4578-03	WB-305-TOP	SOIL	11H-Benzo[a]fluorene	*	220.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	11H-Benzo[b]fluorene	*	320.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Anthracene, 2-methyl-	*	230.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethenyl-1,4-dimethyl-	*	240.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	5-Bromo-2-thiophenecarboxaldeh	*	670.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo[e]pyrene	*	250.000	J 0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzophenone	*	600.000	J 0	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	Butane, 2-methoxy-2-methyl-	* 3,200.000	JB	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Naphthalene, 2,3-dimethyl-	* 230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-Hexadecanoic acid	* 540.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Cymene	* 260.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Pyrene, 1-methyl-	* 170.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Silane, trichlorooctadecyl-	* 280.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Sulfurous acid, 2-ethylhexyl hexyl	* 180.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown12.510	* 180.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown17.380	* 420.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown18.345	* 270.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Hexadecane	* 230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene, 2,5-dimethyl-	* 200.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene, 2-methyl-	* 190.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	1-Methylnaphthalene	* 210.000	J	150	320	ug/Kg

Total Tics : 9,090.00

Total Concentration: 14,840.00

Client ID : WB-305-TOP-1

P4578-04	WB-305-TOP-1	SOIL	Phenanthrene	200.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Fluoranthene	180.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Pyrene	190.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzo(a)anthracene	140.000	J	140	290	ug/Kg

Total Svoc : 710.00

P4578-04	WB-305-TOP-1	SOIL	Benzaldehyde, 3,5-dichloro-2-hyd	* 200.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzo[e]pyrene	* 140.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzophenone	* 540.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Butane, 2-methoxy-2-methyl-	* 2,600.000	JB	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Tricosyl trifluoroacetate	* 180.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	n-Hexadecanoic acid	* 430.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Pentanedioic acid, dimethyl ester	* 120.000	J	0	0	ug/Kg

Total Tics : 4,210.00

Total Concentration: 4,920.00

Client ID : WB-305-BOT

P4578-05	WB-305-BOT	SOIL	Benzophenone	* 540.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Butane, 2-methoxy-2-methyl-	* 2,200.000	JB	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Heptafluorobutyric acid, hexadecy	* 240.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	n-Hexadecanoic acid	* 340.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Pentanedioic acid, dimethyl ester	* 83.200	J	0	0	ug/Kg

Total Tics : 3,403.20

Total Concentration: 3,403.20

Hit Summary Sheet SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-305-BOT-1								
P4578-07	WB-305-BOT-1	SOIL	Benzophenone	*	390.000	J 0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Butane, 2-methoxy-2-methyl-	*	1,900.000	JB 0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	n-Hexadecanoic acid	*	280.000	J 0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Octacosyl trifluoroacetate	*	220.000	J 0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Pentanedioic acid, dimethyl ester	*	78.200	J 0	0	ug/Kg
Total Tics :					2,868.20			
Total Concentration:					2,868.20			



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Hit Summary Sheet
SW-846

SDG No.: P4578
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :				0.000				
Total Svoc :					0.00			
Total Concentration:					0.00			



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Hit Summary Sheet
SW-846

SDG No.: P4578

Order ID: P4578

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000



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Hit Summary Sheet
SW-846

SDG No.: P4578

Order ID: P4578

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000



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Hit Summary Sheet
SW-846

SDG No.: P4578

Order ID: P4578

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000

Hit Summary Sheet SW-846

SDG No.: P4578

Order ID: P4578

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-305-SW								
P4578-01	WB-305-SW	Water	Aluminum	116		28.3	50.0	ug/L
P4578-01	WB-305-SW	Water	Antimony	2.72	J	2.06	25.0	ug/L
P4578-01	WB-305-SW	Water	Barium	31.8	J	6.28	50.0	ug/L
P4578-01	WB-305-SW	Water	Calcium	173000		33.0	1000	ug/L
P4578-01	WB-305-SW	Water	Chromium	5.67		0.66	5.00	ug/L
P4578-01	WB-305-SW	Water	Iron	436		18.5	50.0	ug/L
P4578-01	WB-305-SW	Water	Magnesium	440000		39.4	1000	ug/L
P4578-01	WB-305-SW	Water	Manganese	70.2		1.46	10.0	ug/L
P4578-01	WB-305-SW	Water	Nickel	3.83	J	0.85	20.0	ug/L
P4578-01	WB-305-SW	Water	Potassium	210000		685	1000	ug/L
P4578-01	WB-305-SW	Water	Sodium	3960000	D	1190	5000	ug/L
P4578-01	WB-305-SW	Water	Zinc	25.0		1.75	20.0	ug/L
Client ID : WB-305-SW-1								
P4578-02	WB-305-SW-1	Water	Aluminum	90.3		28.3	50.0	ug/L
P4578-02	WB-305-SW-1	Water	Barium	30.7	J	6.28	50.0	ug/L
P4578-02	WB-305-SW-1	Water	Calcium	169000		33.0	1000	ug/L
P4578-02	WB-305-SW-1	Water	Chromium	5.82		0.66	5.00	ug/L
P4578-02	WB-305-SW-1	Water	Iron	387		18.5	50.0	ug/L
P4578-02	WB-305-SW-1	Water	Magnesium	432000		39.4	1000	ug/L
P4578-02	WB-305-SW-1	Water	Manganese	67.9		1.46	10.0	ug/L
P4578-02	WB-305-SW-1	Water	Nickel	5.34	J	0.85	20.0	ug/L
P4578-02	WB-305-SW-1	Water	Potassium	200000		685	1000	ug/L
P4578-02	WB-305-SW-1	Water	Sodium	3960000	D	1190	5000	ug/L
P4578-02	WB-305-SW-1	Water	Vanadium	3.63	J	3.06	20.0	ug/L
P4578-02	WB-305-SW-1	Water	Zinc	22.1		1.75	20.0	ug/L
Client ID : WB-305-TOP								
P4578-03	WB-305-TOP	SOIL	Aluminum	8650		4.13	8.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Antimony	0.93	J	0.26	4.28	mg/Kg
P4578-03	WB-305-TOP	SOIL	Arsenic	44.3		0.50	1.71	mg/Kg
P4578-03	WB-305-TOP	SOIL	Barium	103		1.10	8.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Beryllium	0.68		0.021	0.51	mg/Kg
P4578-03	WB-305-TOP	SOIL	Cadmium	3.15		0.027	0.51	mg/Kg
P4578-03	WB-305-TOP	SOIL	Calcium	2590		4.80	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Chromium	135		0.093	0.86	mg/Kg
P4578-03	WB-305-TOP	SOIL	Cobalt	9.42		0.099	2.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Copper	306		0.81	1.71	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P4578

Order ID: P4578

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	Iron	20500		4.61	8.57	mg/Kg
P4578-03	WB-305-TOP	SOIL	Lead	261		0.26	1.03	mg/Kg
P4578-03	WB-305-TOP	SOIL	Magnesium	3910		5.88	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Manganese	207		0.12	1.71	mg/Kg
P4578-03	WB-305-TOP	SOIL	Mercury	4.57	D	0.10	0.23	mg/Kg
P4578-03	WB-305-TOP	SOIL	Nickel	44.2		0.15	3.43	mg/Kg
P4578-03	WB-305-TOP	SOIL	Potassium	1530		49.2	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Silver	2.64		0.089	0.86	mg/Kg
P4578-03	WB-305-TOP	SOIL	Sodium	3350		61.8	171	mg/Kg
P4578-03	WB-305-TOP	SOIL	Vanadium	23.2		0.46	3.43	mg/Kg
P4578-03	WB-305-TOP	SOIL	Zinc	380		0.19	3.43	mg/Kg
Client ID : WB-305-TOP-1								
P4578-04	WB-305-TOP-1	SOIL	Aluminum	8270		3.91	8.11	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Antimony	1.07	J	0.24	4.06	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Arsenic	71.8		0.47	1.62	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Barium	174		1.04	8.11	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Beryllium	0.64		0.019	0.49	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Cadmium	4.01		0.026	0.49	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Calcium	3120		4.54	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Chromium	215	D	0.44	4.06	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Cobalt	8.93		0.094	2.43	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Copper	432		0.76	1.62	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Iron	19100		4.36	8.11	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Lead	458		0.24	0.97	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Magnesium	3710		5.57	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Manganese	177		0.12	1.62	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Mercury	2.73	D	0.094	0.21	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Nickel	54.9		0.15	3.24	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Potassium	1440		46.6	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Silver	4.34		0.084	0.81	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Sodium	3590		58.6	162	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Thallium	1.24	J	0.71	3.24	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Vanadium	21.5		0.44	3.24	mg/Kg
P4578-04	WB-305-TOP-1	SOIL	Zinc	577		0.18	3.24	mg/Kg
Client ID : WB-305-BOT								
P4578-05	WB-305-BOT	SOIL	Aluminum	3760		2.86	5.94	mg/Kg
P4578-05	WB-305-BOT	SOIL	Antimony	0.18	J	0.18	2.97	mg/Kg
P4578-05	WB-305-BOT	SOIL	Arsenic	1.30		0.35	1.19	mg/Kg
P4578-05	WB-305-BOT	SOIL	Barium	19.3		0.76	5.94	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P4578

Order ID: P4578

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4578-05	WB-305-BOT	SOIL	Beryllium	0.37		0.014	0.36	mg/Kg
P4578-05	WB-305-BOT	SOIL	Cadmium	0.99		0.019	0.36	mg/Kg
P4578-05	WB-305-BOT	SOIL	Calcium	5070		3.33	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Chromium	10.7		0.064	0.59	mg/Kg
P4578-05	WB-305-BOT	SOIL	Cobalt	5.08		0.069	1.78	mg/Kg
P4578-05	WB-305-BOT	SOIL	Copper	11.6		0.56	1.19	mg/Kg
P4578-05	WB-305-BOT	SOIL	Iron	11800		3.20	5.94	mg/Kg
P4578-05	WB-305-BOT	SOIL	Lead	6.90		0.18	0.71	mg/Kg
P4578-05	WB-305-BOT	SOIL	Magnesium	2640		4.08	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Manganese	175		0.084	1.19	mg/Kg
P4578-05	WB-305-BOT	SOIL	Mercury	0.072		0.0060	0.014	mg/Kg
P4578-05	WB-305-BOT	SOIL	Nickel	11.0		0.11	2.38	mg/Kg
P4578-05	WB-305-BOT	SOIL	Potassium	834		34.1	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Silver	0.48	J	0.062	0.59	mg/Kg
P4578-05	WB-305-BOT	SOIL	Sodium	881		42.9	119	mg/Kg
P4578-05	WB-305-BOT	SOIL	Vanadium	10.5		0.32	2.38	mg/Kg
P4578-05	WB-305-BOT	SOIL	Zinc	31.0		0.13	2.38	mg/Kg
Client ID : WB-305-BOT-1								
P4578-07	WB-305-BOT-1	SOIL	Aluminum	3510		2.23	4.63	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Arsenic	1.74		0.27	0.93	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Barium	21.0		0.59	4.63	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Beryllium	0.33		0.011	0.28	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Cadmium	0.92		0.015	0.28	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Calcium	3810		2.59	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Chromium	11.7		0.050	0.46	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Cobalt	4.56		0.054	1.39	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Copper	11.5		0.44	0.93	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Iron	9770		2.49	4.63	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Lead	8.83		0.14	0.56	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Magnesium	2040		3.17	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Manganese	114		0.066	0.93	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Mercury	0.036		0.0060	0.014	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Nickel	9.39		0.083	1.85	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Potassium	754		26.6	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Silver	0.38	J	0.048	0.46	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Sodium	773		33.4	92.5	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Vanadium	10.1		0.25	1.85	mg/Kg
P4578-07	WB-305-BOT-1	SOIL	Zinc	25.6		0.10	1.85	mg/Kg



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

Hit Summary Sheet
SW-846

SDG No.: P4578

Order ID: P4578

Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : WB-305-BOT								
P4578-06	WB-305-BOT	TCLP	Barium	558		62.8	500	ug/L
P4578-06	WB-305-BOT	TCLP	Cadmium	1.68	J	0.94	30.0	ug/L
P4578-06	WB-305-BOT	TCLP	Chromium	17.2	J	6.60	50.0	ug/L
Client ID : WB-305-BOT-1								
P4578-08	WB-305-BOT-1	TCLP	Barium	492	J	62.8	500	ug/L
P4578-08	WB-305-BOT-1	TCLP	Cadmium	1.08	J	0.94	30.0	ug/L
P4578-08	WB-305-BOT-1	TCLP	Chromium	42.4	J	6.60	50.0	ug/L