

ANALYTICAL RESULT 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 : P4892

ATTENTION : Joseph Krupansky



Laboratory Certification ID # 20012



Hit Summary Sheet SW-846

SDG No.: P4892
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: WB-310-TOP								
P4892-01	WB-310-TOP	SOIL	Acetone	110		7.10	28.3	ug/Kg
P4892-01	WB-310-TOP	SOIL	Carbon Disulfide	7.20		1.40	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	2-Butanone	40.3		6.40	28.3	ug/Kg
P4892-01	WB-310-TOP	SOIL	Methylcyclohexane	14.3		0.98	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzene	22.6		0.81	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Toluene	1.90	J	0.76	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Chlorobenzene	1.70	J	0.84	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Ethyl Benzene	1.20	J	0.70	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	m/p-Xylenes	11.5		1.50	11.3	ug/Kg
P4892-01	WB-310-TOP	SOIL	o-Xylene	17.2		0.79	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	Isopropylbenzene	1.50	J	0.76	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,3-Dichlorobenzene	5.90		0.84	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,4-Dichlorobenzene	6.10		0.91	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,2-Dichlorobenzene	2.10	J	0.67	5.70	ug/Kg
Total Voc :					244			
P4892-01	WB-310-TOP	SOIL	unknown12.127	* 46.4	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	unknown12.164	* 59.6	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	unknown12.499	* 53.2	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	unknown12.658	* 77.6	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pentane, 2,2,4-trimethyl-	* 30.0	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzene, (1-methyl-1-propenyl)	* 28.0	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Cyclohexane, 1,2,4-trimethyl-	* 52.7	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphthalene, decahydro-2-metl	* 53.1	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Nonane, 3-methyl-	* 44.6	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Decane, 3-methyl-	* 35.0	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	n-propylbenzene	* 1.50	J	0.72	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,3,5-Trimethylbenzene	* 6.50	J	0.72	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	1,2,4-Trimethylbenzene	* 10.7	J	1.60	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	sec-Butylbenzene	* 1.40	J	0.76	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	p-Isopropyltoluene	* 2.80	J	0.66	5.70	ug/Kg
P4892-01	WB-310-TOP	SOIL	n-Butylbenzene	* 1.60	J	0.71	5.70	ug/Kg
Total Tics :					505			
Total Concentration:					748			
Client ID: WB-310-SW								
P4892-04	WB-310-SW	Water	m/p-Xylenes	0.39	J	0.31	2.00	ug/L
Total Voc :					0.39			

Hit Summary Sheet
SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4892-04	WB-310-SW	Water	Acetic acid	* 7.60	J	0	0	ug/L
P4892-04	WB-310-SW	Water	1,2,4-Trimethylbenzene	* 0.52	J	0.18	1.00	ug/L
Total Tics :				8.12				
Total Concentration:				8.51				



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Hit Summary Sheet
SW-846

SDG No.: P4892

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.: P4892

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	WB-310-TOP							
P4892-01	WB-310-TOP	SOIL	Acenaphthylene	200.000	J	140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Phenanthrene	720.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Anthracene	330.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Fluoranthene	1,400.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pyrene	1,100.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(a)anthracene	1,100.000		130	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Chrysene	980.000		130	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(b)fluoranthene	840.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(k)fluoranthene	350.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(a)pyrene	910.000		160	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Indeno(1,2,3-cd)pyrene	300.000		130	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(g,h,i)perylene	320.000		130	280	ug/Kg
Total Svoc :				8,550.00				
P4892-01	WB-310-TOP	SOIL	11H-Benzo[a]fluorene	*	190.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	11H-Benzo[b]fluorene	*	360.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	4-Bromothiophene-2-aldehyde	*	840.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	9,10-Dimethylanthracene	*	430.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Anthracene, 1-methyl-	*	280.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Anthracene, 2-methyl-	*	470.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzene, 1,1-(1,3-butadiyne-1,4-d	*	270.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo[e]pyrene	*	400.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzophenone	*	320.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	2,100.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Decane, 2-methyl-	*	320.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphthalene, 2,3,6-trimethyl-	*	180.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphthalene, 2-phenyl-	*	160.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphtho[2,1-b]thiophene	*	210.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Fluoranthene, 2-methyl-	*	180.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Hexadecane, 2,6,10,14-tetramethy	*	150.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Phenanthrene, 2-methyl-	*	290.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pyrene, 1-methyl-	*	180.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pyrene, 4-methyl-	*	160.000	J	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	unknown9.616	*	270.000	J	0	ug/Kg
Total Tics :				7,760.00				
Total Concentration:				16,310.00				

Hit Summary Sheet SW-846

SDG No.: P4892
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4892-02	WB-310-BOT	SOIL	Butane, 2-methoxy-2-methyl-	*	1,800.000	J 0	0	ug/Kg
P4892-02	WB-310-BOT	SOIL	n-Hexadecanoic acid	*	330.000	J 0	0	ug/Kg
P4892-02	WB-310-BOT	SOIL	Pentanedioic acid, dimethyl ester	*	97.300	J 0	0	ug/Kg
Total Tics :					2,477.30			
Total Concentration:					2,477.30			
Client ID : WB-310-SW								
P4892-04	WB-310-SW	WATER	Supraene	*	2.800	J 0	0	ug/L
P4892-04	WB-310-SW	WATER	unknown14.239	*	2.100	J 0	0	ug/L
Total Tics :					4.90			
Total Concentration:					4.90			



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Hit Summary Sheet
SW-846

SDG No.: P4892
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.: P4892

Order ID: P4892

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
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SDG No.: P4892

Order ID: P4892

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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SDG No.: P4892

Order ID: P4892

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.: P4892

Order ID: P4892

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-310-TOP								
P4892-01	WB-310-TOP	SOIL	Aluminum	9190		3.71	7.71	mg/Kg
P4892-01	WB-310-TOP	SOIL	Arsenic	32.4		0.45	1.54	mg/Kg
P4892-01	WB-310-TOP	SOIL	Barium	207		0.99	7.71	mg/Kg
P4892-01	WB-310-TOP	SOIL	Beryllium	0.85		0.018	0.46	mg/Kg
P4892-01	WB-310-TOP	SOIL	Cadmium	7.10		0.025	0.46	mg/Kg
P4892-01	WB-310-TOP	SOIL	Calcium	2890		4.32	154	mg/Kg
P4892-01	WB-310-TOP	SOIL	Chromium	294	D	0.42	3.85	mg/Kg
P4892-01	WB-310-TOP	SOIL	Cobalt	8.36		0.089	2.31	mg/Kg
P4892-01	WB-310-TOP	SOIL	Copper	256		0.72	1.54	mg/Kg
P4892-01	WB-310-TOP	SOIL	Iron	20600		4.15	7.71	mg/Kg
P4892-01	WB-310-TOP	SOIL	Lead	341		0.23	0.93	mg/Kg
P4892-01	WB-310-TOP	SOIL	Magnesium	4130		5.29	154	mg/Kg
P4892-01	WB-310-TOP	SOIL	Manganese	214		0.11	1.54	mg/Kg
P4892-01	WB-310-TOP	SOIL	Mercury	5.09	D	0.088	0.20	mg/Kg
P4892-01	WB-310-TOP	SOIL	Nickel	41.5		0.14	3.08	mg/Kg
P4892-01	WB-310-TOP	SOIL	Potassium	1370		44.2	154	mg/Kg
P4892-01	WB-310-TOP	SOIL	Silver	3.28		0.080	0.77	mg/Kg
P4892-01	WB-310-TOP	SOIL	Sodium	4370		55.6	154	mg/Kg
P4892-01	WB-310-TOP	SOIL	Vanadium	33.1		0.42	3.08	mg/Kg
P4892-01	WB-310-TOP	SOIL	Zinc	573		0.17	3.08	mg/Kg
Client ID : WB-310-BOT								
P4892-02	WB-310-BOT	SOIL	Aluminum	3700		2.39	4.96	mg/Kg
P4892-02	WB-310-BOT	SOIL	Arsenic	1.44		0.29	0.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Barium	13.7		0.64	4.96	mg/Kg
P4892-02	WB-310-BOT	SOIL	Beryllium	0.39		0.012	0.30	mg/Kg
P4892-02	WB-310-BOT	SOIL	Cadmium	1.16		0.016	0.30	mg/Kg
P4892-02	WB-310-BOT	SOIL	Calcium	5530		2.78	99.3	mg/Kg
P4892-02	WB-310-BOT	SOIL	Chromium	8.36		0.054	0.50	mg/Kg
P4892-02	WB-310-BOT	SOIL	Cobalt	5.55		0.058	1.49	mg/Kg
P4892-02	WB-310-BOT	SOIL	Copper	8.86		0.47	0.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Iron	12300		2.67	4.96	mg/Kg
P4892-02	WB-310-BOT	SOIL	Lead	5.52		0.15	0.60	mg/Kg
P4892-02	WB-310-BOT	SOIL	Magnesium	3310		3.40	99.3	mg/Kg
P4892-02	WB-310-BOT	SOIL	Manganese	281		0.070	0.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Mercury	0.0070	J	0.0060	0.014	mg/Kg
P4892-02	WB-310-BOT	SOIL	Nickel	9.95		0.089	1.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Potassium	678		28.5	99.3	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P4892

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Client: Portal Partners Tri-Venture

Project ID: Amtrak Sawtooth Bridges 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4892-02	WB-310-BOT	SOIL	Sodium	804		35.8	99.3	mg/Kg
P4892-02	WB-310-BOT	SOIL	Vanadium	11.4		0.27	1.99	mg/Kg
P4892-02	WB-310-BOT	SOIL	Zinc	21.1		0.11	1.99	mg/Kg
Client ID : WB-310-SW								
P4892-04	WB-310-SW	Water	Aluminum	453		28.3	50.0	ug/L
P4892-04	WB-310-SW	Water	Barium	30.4	J	6.28	50.0	ug/L
P4892-04	WB-310-SW	Water	Calcium	225000		33.0	1000	ug/L
P4892-04	WB-310-SW	Water	Chromium	3.06	J	0.66	5.00	ug/L
P4892-04	WB-310-SW	Water	Iron	530		18.5	50.0	ug/L
P4892-04	WB-310-SW	Water	Magnesium	704000		39.4	1000	ug/L
P4892-04	WB-310-SW	Water	Manganese	53.9		1.46	10.0	ug/L
P4892-04	WB-310-SW	Water	Nickel	2.30	J	0.85	20.0	ug/L
P4892-04	WB-310-SW	Water	Potassium	565000		685	1000	ug/L
P4892-04	WB-310-SW	Water	Sodium	6450000	D	2370	10000	ug/L
P4892-04	WB-310-SW	Water	Vanadium	3.83	J	3.06	20.0	ug/L
P4892-04	WB-310-SW	Water	Zinc	20.5		1.75	20.0	ug/L



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Order ID: P4892

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-310-BOT								
P4892-03	WB-310-BOT	TCLP	Barium	455	J	62.8	500	ug/L
P4892-03	WB-310-BOT	TCLP	Chromium	13.5	J	6.60	50.0	ug/L