



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Tuesday, January 17, 2023

Chip Byrd
Sevenson Environmental Services, Inc.
2749 Lockport Road
Niagara Falls, NY 14305

RE: A2L0842 - Gasco -- Monthly (2022) - 000029-02-20-2

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2L0842, which was received by the laboratory on 12/21/2022 at 2:55:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	4.1 degC	Cooler #2	3.7 degC
Cooler #3	2.9 degC	Cooler #4	3.2 degC
Cooler #5	4.6 degC		

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SI-122122-97	A2L0842-01	Water	12/21/22 03:35	12/21/22 14:55
SE-122122-97	A2L0842-02	Water	12/21/22 03:35	12/21/22 14:55
NWI-122122-97	A2L0842-03	Water	12/21/22 01:15	12/21/22 14:55
NWE-122122-97	A2L0842-04	Water	12/21/22 01:35	12/21/22 14:55
TWIA-122122-97	A2L0842-05	Water	12/21/22 01:20	12/21/22 14:55
TWIB-122122-97	A2L0842-06	Water	12/21/22 01:35	12/21/22 14:55
TWE-122122-97	A2L0842-07	Water	12/21/22 01:50	12/21/22 14:55
TPI-122122-97	A2L0842-08	Water	12/21/22 04:10	12/21/22 14:55
PGAC-122122-97	A2L0842-09	Water	12/21/22 04:00	12/21/22 14:55
GACM1-122122-97	A2L0842-10	Water	12/21/22 04:30	12/21/22 14:55
GACM2-122122-97	A2L0842-11	Water	12/21/22 00:20	12/21/22 14:55
GACF1-122122-97	A2L0842-12	Water	12/21/22 04:10	12/21/22 14:55
GACF2-122122-97	A2L0842-13	Water	12/21/22 00:35	12/21/22 14:55

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SI-122122-97 (A2L0842-01)				Matrix: Water		Batch: 22L0927		
Acetone	ND	50.0	100	ug/L	5	12/30/22 01:19	EPA 8260D	
Acrylonitrile	ND	5.00	10.0	ug/L	5	12/30/22 01:19	EPA 8260D	
Benzene	242	0.500	1.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Bromobenzene	ND	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
Bromochloromethane	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Bromoform	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Bromomethane	ND	25.0	25.0	ug/L	5	12/30/22 01:19	EPA 8260D	
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	12/30/22 01:19	EPA 8260D	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Carbon disulfide	ND	25.0	50.0	ug/L	5	12/30/22 01:19	EPA 8260D	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Chlorobenzene	4.10	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	5	12/30/22 01:19	EPA 8260D	
Chloroform	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Chloromethane	ND	12.5	25.0	ug/L	5	12/30/22 01:19	EPA 8260D	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	12/30/22 01:19	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
Dibromomethane	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,2-Dichlorobenzene	1.70	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	J
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,1-Dichloroethene	ND	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	
cis-1,2-Dichloroethene	4.50	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	
trans-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SI-122122-97 (A2L0842-01)			Matrix: Water			Batch: 22L0927		
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Ethylbenzene	130	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	12/30/22 01:19	EPA 8260D	
2-Hexanone	ND	25.0	50.0	ug/L	5	12/30/22 01:19	EPA 8260D	
Isopropylbenzene	5.85	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Methylene chloride	ND	25.0	50.0	ug/L	5	12/30/22 01:19	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	25.0	50.0	ug/L	5	12/30/22 01:19	EPA 8260D	
Methyl tert-butyl ether (MTBE)	2.85	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	J
n-Propylbenzene	2.40	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	J
Styrene	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Toluene	5.55	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	12/30/22 01:19	EPA 8260D	
1,2,4-Trichlorobenzene	ND	5.00	10.0	ug/L	5	12/30/22 01:19	EPA 8260D	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	
Trichloroethene (TCE)	ND	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	12/30/22 01:19	EPA 8260D	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,2,4-Trimethylbenzene	37.1	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
1,3,5-Trimethylbenzene	10.0	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
Vinyl chloride	8.95	1.00	2.00	ug/L	5	12/30/22 01:19	EPA 8260D	
m,p-Xylene	72.8	2.50	5.00	ug/L	5	12/30/22 01:19	EPA 8260D	
o-Xylene	43.9	1.25	2.50	ug/L	5	12/30/22 01:19	EPA 8260D	

Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % 1 12/30/22 01:19 EPA 8260D

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SI-122122-97 (A2L0842-01)			Matrix: Water			Batch: 22L0927		
<i>Surrogate: Toluene-d8 (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/30/22 01:19</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 01:19</i>	<i>EPA 8260D</i>
SE-122122-97 (A2L0842-02)			Matrix: Water			Batch: 22L0927		
Acetone	ND	50.0	100	ug/L	5	12/30/22 03:11	EPA 8260D	
Acrylonitrile	ND	5.00	10.0	ug/L	5	12/30/22 03:11	EPA 8260D	
Benzene	26.4	0.500	1.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Bromobenzene	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
Bromochloromethane	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Bromoform	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Bromomethane	ND	25.0	25.0	ug/L	5	12/30/22 03:11	EPA 8260D	
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	12/30/22 03:11	EPA 8260D	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Carbon disulfide	ND	25.0	50.0	ug/L	5	12/30/22 03:11	EPA 8260D	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Chlorobenzene	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	5	12/30/22 03:11	EPA 8260D	
Chloroform	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Chloromethane	ND	12.5	25.0	ug/L	5	12/30/22 03:11	EPA 8260D	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	12/30/22 03:11	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
Dibromomethane	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	12/30/22 03:11	EPA 8260D	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SE-122122-97 (A2L0842-02)			Matrix: Water			Batch: 22L0927		
1,1-Dichloroethene	ND	1.00	2.00	ug/L	5	12/30/22 03:11	EPA 8260D	
cis-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	12/30/22 03:11	EPA 8260D	
trans-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Ethylbenzene	11.8	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	12/30/22 03:11	EPA 8260D	
2-Hexanone	ND	25.0	50.0	ug/L	5	12/30/22 03:11	EPA 8260D	
Isopropylbenzene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Methylene chloride	ND	25.0	50.0	ug/L	5	12/30/22 03:11	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	25.0	50.0	ug/L	5	12/30/22 03:11	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
n-Propylbenzene	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
Styrene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Toluene	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	12/30/22 03:11	EPA 8260D	
1,2,4-Trichlorobenzene	ND	5.00	10.0	ug/L	5	12/30/22 03:11	EPA 8260D	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
Trichloroethene (TCE)	ND	1.00	2.00	ug/L	5	12/30/22 03:11	EPA 8260D	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	12/30/22 03:11	EPA 8260D	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,2,4-Trimethylbenzene	5.35	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
1,3,5-Trimethylbenzene	ND	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	
m,p-Xylene	7.30	2.50	5.00	ug/L	5	12/30/22 03:11	EPA 8260D	

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Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SE-122122-97 (A2L0842-02)			Matrix: Water			Batch: 22L0927		
o-Xylene	6.25	1.25	2.50	ug/L	5	12/30/22 03:11	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/30/22 03:11</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 03:11</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 03:11</i>	<i>EPA 8260D</i>
NWI-122122-97 (A2L0842-03)			Matrix: Water			Batch: 22L0927		
Acetone	ND	20.0	40.0	ug/L	2	12/30/22 02:04	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Benzene	236	0.200	0.400	ug/L	2	12/30/22 02:04	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	12/30/22 02:04	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	12/30/22 02:04	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	12/30/22 02:04	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	12/30/22 02:04	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	12/30/22 02:04	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
4-Chlorotoluene	ND	2.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	12/30/22 02:04	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NWI-122122-97 (A2L0842-03)			Matrix: Water			Batch: 22L0927		
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Ethylbenzene	14.1	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	12/30/22 02:04	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	12/30/22 02:04	EPA 8260D	
Isopropylbenzene	1.44	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	J
4-Isopropyltoluene	1.20	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	J
Methylene chloride	ND	10.0	20.0	ug/L	2	12/30/22 02:04	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	10.0	20.0	ug/L	2	12/30/22 02:04	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
n-Propylbenzene	0.760	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	J
Styrene	1.42	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	J
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
Toluene	60.6	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
1,2,4-Trimethylbenzene	14.5	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NWI-122122-97 (A2L0842-03)				Matrix: Water		Batch: 22L0927		
1,3,5-Trimethylbenzene	3.80	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
Vinyl chloride	ND	0.400	0.800	ug/L	2	12/30/22 02:04	EPA 8260D	
m,p-Xylene	19.9	1.00	2.00	ug/L	2	12/30/22 02:04	EPA 8260D	
o-Xylene	13.8	0.500	1.00	ug/L	2	12/30/22 02:04	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/30/22 02:04</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 02:04</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 02:04</i>	<i>EPA 8260D</i>

NWE-122122-97 (A2L0842-04)				Matrix: Water		Batch: 22L0927		
Acetone	ND	10.0	20.0	ug/L	1	12/30/22 00:34	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Benzene	109	0.100	0.200	ug/L	1	12/30/22 00:34	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/30/22 00:34	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/30/22 00:34	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/30/22 00:34	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/30/22 00:34	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NWE-122122-97 (A2L0842-04)			Matrix: Water			Batch: 22L0927		
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Ethylbenzene	4.90	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/30/22 00:34	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	12/30/22 00:34	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/30/22 00:34	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	12/30/22 00:34	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	
Toluene	20.8	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
NWE-122122-97 (A2L0842-04)			Matrix: Water			Batch: 22L0927		
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,2,4-Trimethylbenzene	1.65	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	12/30/22 00:34	EPA 8260D	
m,p-Xylene	6.02	0.500	1.00	ug/L	1	12/30/22 00:34	EPA 8260D	
o-Xylene	4.29	0.250	0.500	ug/L	1	12/30/22 00:34	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/30/22 00:34</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 00:34</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 00:34</i>	<i>EPA 8260D</i>
TWIA-122122-97 (A2L0842-05)			Matrix: Water			Batch: 22L0927		
Acetone	ND	100	200	ug/L	10	12/30/22 02:26	EPA 8260D	
Acrylonitrile	ND	10.0	20.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Bromobenzene	ND	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
Bromochloromethane	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Bromodichloromethane	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Bromoform	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Bromomethane	ND	50.0	50.0	ug/L	10	12/30/22 02:26	EPA 8260D	
2-Butanone (MEK)	ND	50.0	100	ug/L	10	12/30/22 02:26	EPA 8260D	
n-Butylbenzene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Carbon disulfide	ND	50.0	100	ug/L	10	12/30/22 02:26	EPA 8260D	
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Chlorobenzene	ND	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
Chloroethane	ND	50.0	50.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Chloroform	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Chloromethane	ND	25.0	50.0	ug/L	10	12/30/22 02:26	EPA 8260D	
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Dibromochloromethane	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWIA-122122-97 (A2L0842-05)			Matrix: Water			Batch: 22L0927		
Dibromomethane	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	
1,1-Dichloroethene	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	
cis-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Ethylbenzene	111	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	12/30/22 02:26	EPA 8260D	
2-Hexanone	ND	50.0	100	ug/L	10	12/30/22 02:26	EPA 8260D	
Isopropylbenzene	12.1	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
Methylene chloride	ND	50.0	100	ug/L	10	12/30/22 02:26	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	50.0	100	ug/L	10	12/30/22 02:26	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
n-Propylbenzene	5.10	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
Styrene	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
Tetrachloroethene (PCE)	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	
Toluene	15.9	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWIA-122122-97 (A2L0842-05)			Matrix: Water			Batch: 22L0927		
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
Trichloroethene (TCE)	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,2,4-Trimethylbenzene	38.2	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
1,3,5-Trimethylbenzene	5.90	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	J
Vinyl chloride	ND	2.00	4.00	ug/L	10	12/30/22 02:26	EPA 8260D	
m,p-Xylene	64.4	5.00	10.0	ug/L	10	12/30/22 02:26	EPA 8260D	
o-Xylene	57.5	2.50	5.00	ug/L	10	12/30/22 02:26	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/30/22 02:26</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 02:26</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 02:26</i>	<i>EPA 8260D</i>
TWIA-122122-97 (A2L0842-05RE1)			Matrix: Water			Batch: 22L1002		
Benzene	3040	5.00	10.0	ug/L	50	12/31/22 03:38	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/31/22 03:38</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/31/22 03:38</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/31/22 03:38</i>	<i>EPA 8260D</i>
TWIB-122122-97 (A2L0842-06)			Matrix: Water			Batch: 22L0927		
Acetone	ND	1000	2000	ug/L	100	12/30/22 04:40	EPA 8260D	
Acrylonitrile	ND	100	200	ug/L	100	12/30/22 04:40	EPA 8260D	
Benzene	8920	10.0	20.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Bromobenzene	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Bromochloromethane	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
Bromodichloromethane	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
Bromoform	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
Bromomethane	ND	500	500	ug/L	100	12/30/22 04:40	EPA 8260D	
2-Butanone (MEK)	ND	500	1000	ug/L	100	12/30/22 04:40	EPA 8260D	
n-Butylbenzene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
sec-Butylbenzene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
tert-Butylbenzene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
Carbon disulfide	ND	500	1000	ug/L	100	12/30/22 04:40	EPA 8260D	
Carbon tetrachloride	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWIB-122122-97 (A2L0842-06)			Matrix: Water			Batch: 22L0927		
Chlorobenzene	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Chloroethane	ND	500	500	ug/L	100	12/30/22 04:40	EPA 8260D	
Chloroform	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
Chloromethane	ND	250	500	ug/L	100	12/30/22 04:40	EPA 8260D	
2-Chlorotoluene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
4-Chlorotoluene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
Dibromochloromethane	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	250	500	ug/L	100	12/30/22 04:40	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Dibromomethane	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
1,2-Dichlorobenzene	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
1,3-Dichlorobenzene	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
1,4-Dichlorobenzene	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Dichlorodifluoromethane	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
1,1-Dichloroethane	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
1,1-Dichloroethene	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
cis-1,2-Dichloroethene	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
trans-1,2-Dichloroethene	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
1,2-Dichloropropane	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
1,3-Dichloropropane	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
2,2-Dichloropropane	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
1,1-Dichloropropene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
cis-1,3-Dichloropropene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
trans-1,3-Dichloropropene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
Ethylbenzene	356	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Hexachlorobutadiene	ND	250	500	ug/L	100	12/30/22 04:40	EPA 8260D	
2-Hexanone	ND	500	1000	ug/L	100	12/30/22 04:40	EPA 8260D	
Isopropylbenzene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
4-Isopropyltoluene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
Methylene chloride	ND	500	1000	ug/L	100	12/30/22 04:40	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	500	1000	ug/L	100	12/30/22 04:40	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWIB-122122-97 (A2L0842-06)			Matrix: Water			Batch: 22L0927		
n-Propylbenzene	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Styrene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Tetrachloroethene (PCE)	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Toluene	275	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
1,2,3-Trichlorobenzene	ND	100	200	ug/L	100	12/30/22 04:40	EPA 8260D	
1,2,4-Trichlorobenzene	ND	100	200	ug/L	100	12/30/22 04:40	EPA 8260D	
1,1,1-Trichloroethane	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
1,1,2-Trichloroethane	ND	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Trichloroethene (TCE)	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
Trichlorofluoromethane	ND	100	200	ug/L	100	12/30/22 04:40	EPA 8260D	
1,2,3-Trichloropropane	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
1,2,4-Trimethylbenzene	65.0	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
Vinyl chloride	ND	20.0	40.0	ug/L	100	12/30/22 04:40	EPA 8260D	
m,p-Xylene	155	50.0	100	ug/L	100	12/30/22 04:40	EPA 8260D	
o-Xylene	125	25.0	50.0	ug/L	100	12/30/22 04:40	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/30/22 04:40</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 04:40</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 04:40</i>	<i>EPA 8260D</i>

TWE-122122-97 (A2L0842-07)			Matrix: Water			Batch: 22L0927		
Acetone	ND	20.0	40.0	ug/L	2	12/30/22 02:49	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Benzene	211	0.200	0.400	ug/L	2	12/30/22 02:49	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	12/30/22 02:49	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	12/30/22 02:49	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWE-122122-97 (A2L0842-07)			Matrix: Water			Batch: 22L0927		
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	12/30/22 02:49	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	12/30/22 02:49	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	12/30/22 02:49	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	12/30/22 02:49	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Ethylbenzene	6.92	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	12/30/22 02:49	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	12/30/22 02:49	EPA 8260D	
Isopropylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWE-122122-97 (A2L0842-07)			Matrix: Water			Batch: 22L0927		
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	12/30/22 02:49	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	10.0	20.0	ug/L	2	12/30/22 02:49	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
n-Propylbenzene	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
Toluene	10.8	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,2,4-Trimethylbenzene	2.72	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
1,3,5-Trimethylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
Vinyl chloride	ND	0.400	0.800	ug/L	2	12/30/22 02:49	EPA 8260D	
m,p-Xylene	5.12	1.00	2.00	ug/L	2	12/30/22 02:49	EPA 8260D	
o-Xylene	5.16	0.500	1.00	ug/L	2	12/30/22 02:49	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>12/30/22 02:49</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>12/30/22 02:49</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>12/30/22 02:49</i>	<i>EPA 8260D</i>	

TPI-122122-97 (A2L0842-08)			Matrix: Water			Batch: 22L0927		
Acetone	ND	20.0	40.0	ug/L	2	12/30/22 01:41	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Benzene	102	0.200	0.400	ug/L	2	12/30/22 01:41	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TPI-122122-97 (A2L0842-08)			Matrix: Water			Batch: 22L0927		
Bromoform	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	12/30/22 01:41	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	12/30/22 01:41	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	12/30/22 01:41	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	12/30/22 01:41	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	12/30/22 01:41	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	12/30/22 01:41	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TPI-122122-97 (A2L0842-08)			Matrix: Water			Batch: 22L0927		
Ethylbenzene	5.54	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	12/30/22 01:41	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	12/30/22 01:41	EPA 8260D	
Isopropylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	12/30/22 01:41	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	10.0	20.0	ug/L	2	12/30/22 01:41	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
n-Propylbenzene	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
Toluene	6.92	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,2,4-Trimethylbenzene	2.10	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
1,3,5-Trimethylbenzene	ND	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
Vinyl chloride	ND	0.400	0.800	ug/L	2	12/30/22 01:41	EPA 8260D	
m,p-Xylene	3.96	1.00	2.00	ug/L	2	12/30/22 01:41	EPA 8260D	
o-Xylene	3.60	0.500	1.00	ug/L	2	12/30/22 01:41	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/30/22 01:41</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 01:41</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 01:41</i>	<i>EPA 8260D</i>

PGAC-122122-97 (A2L0842-09)			Matrix: Water			Batch: 22L0927		
Acetone	ND	20.0	20.0	ug/L	1	12/29/22 23:06	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/29/22 23:06	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PGAC-122122-97 (A2L0842-09)			Matrix: Water			Batch: 22L0927		
Benzene	77.7	0.100	0.200	ug/L	1	12/29/22 23:06	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Bromodichloromethane	14.9	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/29/22 23:06	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/29/22 23:06	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/29/22 23:06	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Chlorobenzene	2.16	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Chloroform	75.5	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/29/22 23:06	EPA 8260D	
2-Chlorotoluene	3.60	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
4-Chlorotoluene	3.77	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Dibromochloromethane	1.74	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	

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ORELAP ID: OR100062

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PGAC-122122-97 (A2L0842-09)			Matrix: Water			Batch: 22L0927		
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/29/22 23:06	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	12/29/22 23:06	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/29/22 23:06	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	12/29/22 23:06	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	12/29/22 23:06	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/29/22 23:06	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/29/22 23:06	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/29/22 23:06</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>90 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/29/22 23:06</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>87 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/29/22 23:06</i>	<i>EPA 8260D</i>

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACM1-122122-97 (A2L0842-10)				Matrix: Water		Batch: 22L0927		
Acetone	ND	10.0	20.0	ug/L	1	12/29/22 23:28	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Benzene	0.610	0.100	0.200	ug/L	1	12/29/22 23:28	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Bromodichloromethane	15.2	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Bromoform	0.830	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	J
Bromomethane	ND	5.00	5.00	ug/L	1	12/29/22 23:28	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/29/22 23:28	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/29/22 23:28	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Chloroform	66.1	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/29/22 23:28	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Dibromochloromethane	3.65	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACM1-122122-97 (A2L0842-10)			Matrix: Water			Batch: 22L0927		
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/29/22 23:28	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	12/29/22 23:28	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/29/22 23:28	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	12/29/22 23:28	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.500	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	12/29/22 23:28	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/29/22 23:28	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/29/22 23:28	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>12/29/22 23:28</i>	<i>EPA 8260D</i>		

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACM1-122122-97 (A2L0842-10)			Matrix: Water			Batch: 22L0927		
<i>Surrogate: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/29/22 23:28</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/29/22 23:28</i>	<i>EPA 8260D</i>
GACM2-122122-97 (A2L0842-11)			Matrix: Water			Batch: 22L0927		
Acetone	ND	10.0	20.0	ug/L	1	12/29/22 23:50	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	12/29/22 23:50	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Bromodichloromethane	6.25	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/29/22 23:50	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/29/22 23:50	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/29/22 23:50	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Chloroform	56.0	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/29/22 23:50	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Dibromochloromethane	0.890	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	J
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACM2-122122-97 (A2L0842-11)			Matrix: Water			Batch: 22L0927		
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/29/22 23:50	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	12/29/22 23:50	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/29/22 23:50	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	12/29/22 23:50	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.620	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	12/29/22 23:50	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACM2-122122-97 (A2L0842-11)			Matrix: Water			Batch: 22L0927		
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/29/22 23:50	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/29/22 23:50	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/29/22 23:50</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/29/22 23:50</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/29/22 23:50</i>	<i>EPA 8260D</i>
GACF1-122122-97 (A2L0842-12)			Matrix: Water			Batch: 22L0927		
Acetone	ND	20.0	20.0	ug/L	1	12/30/22 00:12	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	12/30/22 00:12	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Bromodichloromethane	15.6	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/30/22 00:12	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/30/22 00:12	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/30/22 00:12	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Chloroform	77.6	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/30/22 00:12	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Dibromochloromethane	2.88	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACF1-122122-97 (A2L0842-12)			Matrix: Water			Batch: 22L0927		
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/30/22 00:12	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	12/30/22 00:12	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/30/22 00:12	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	12/30/22 00:12	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.520	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	

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ANALYTICAL REPORT

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACF1-122122-97 (A2L0842-12)			Matrix: Water			Batch: 22L0927		
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	12/30/22 00:12	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/30/22 00:12	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/30/22 00:12	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/30/22 00:12</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 00:12</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/30/22 00:12</i>	<i>EPA 8260D</i>
GACF2-122122-97 (A2L0842-13)			Matrix: Water			Batch: 22L0927		
Acetone	ND	10.0	20.0	ug/L	1	12/29/22 22:43	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	12/29/22 22:43	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Bromodichloromethane	6.70	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/29/22 22:43	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/29/22 22:43	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/29/22 22:43	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Chloroform	50.8	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/29/22 22:43	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Dibromochloromethane	0.930	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	J
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/29/22 22:43	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACF2-122122-97 (A2L0842-13)			Matrix: Water			Batch: 22L0927		
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/29/22 22:43	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	12/29/22 22:43	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/29/22 22:43	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	12/29/22 22:43	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.590	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/29/22 22:43	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/29/22 22:43	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACF2-122122-97 (A2L0842-13)			Matrix: Water			Batch: 22L0927		
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/29/22 22:43	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	12/29/22 22:43	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/29/22 22:43	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/29/22 22:43	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>12/29/22 22:43</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/29/22 22:43</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>12/29/22 22:43</i>	<i>EPA 8260D</i>

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Vinyl Chloride by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SE-122122-97 (A2L0842-02)				Matrix: Water		Batch: 22L1006		
Vinyl chloride	0.134	0.0500	0.100	ug/L	5	01/04/23 15:59	EPA 8260D SIM	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>01/04/23 15:59</i>	<i>EPA 8260D SIM</i>
<i>Toluene-d8 (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/04/23 15:59</i>	<i>EPA 8260D SIM</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>01/04/23 15:59</i>	<i>EPA 8260D SIM</i>

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SI-122122-97 (A2L0842-01)			Matrix: Water			Batch: 22L0834		
Acenaphthene	85.6	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Acenaphthylene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Anthracene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Benz(a)anthracene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Benzo(a)pyrene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Chrysene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Fluoranthene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Fluorene	21.0	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
1-Methylnaphthalene	128	20.6	41.2	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
2-Methylnaphthalene	172	20.6	41.2	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Naphthalene	2670	20.6	41.2	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Phenanthrene	42.5	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Pyrene	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
Dibenzofuran	ND	10.3	20.6	ug/L	500	12/27/22 15:34	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 67 %</i>		<i>Limits: 44-120 %</i>	<i>500</i>	<i>12/27/22 15:34</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>87 %</i>		<i>50-134 %</i>	<i>500</i>	<i>12/27/22 15:34</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

SE-122122-97 (A2L0842-02)			Matrix: Water			Batch: 22L0834		
Acenaphthene	152	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Acenaphthylene	ND	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Anthracene	21.4	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Benz(a)anthracene	ND	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Benzo(a)pyrene	ND	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Chrysene	ND	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SE-122122-97 (A2L0842-02)			Matrix: Water			Batch: 22L0834		
Fluoranthene	14.6	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Fluorene	47.2	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
1-Methylnaphthalene	148	8.60	17.2	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
2-Methylnaphthalene	182	8.60	17.2	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Naphthalene	1720	8.60	17.2	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Phenanthrene	119	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Pyrene	15.6	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
Dibenzofuran	9.50	4.30	8.60	ug/L	200	12/27/22 15:59	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 68 %</i>		<i>Limits: 44-120 %</i>	<i>200</i>	<i>12/27/22 15:59</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>72 %</i>		<i>50-134 %</i>	<i>200</i>	<i>12/27/22 15:59</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
NWI-122122-97 (A2L0842-03)			Matrix: Water			Batch: 22L0834		
Acenaphthene	6.95	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Acenaphthylene	ND	0.426	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Anthracene	1.11	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Benz(a)anthracene	ND	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Chrysene	ND	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Fluoranthene	0.944	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Fluorene	2.17	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
1-Methylnaphthalene	10.3	0.426	0.851	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
2-Methylnaphthalene	12.5	0.426	0.851	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Naphthalene	57.5	0.426	0.851	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Phenanthrene	6.44	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Pyrene	1.04	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
Dibenzofuran	0.634	0.213	0.426	ug/L	10	12/27/22 16:24	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 74 %</i>		<i>Limits: 44-120 %</i>	<i>10</i>	<i>12/27/22 16:24</i>	<i>EPA 8270E SIM</i>	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
			Matrix: Water			Batch: 22L0834		
<i>Surrogate: p-Terphenyl-d14 (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 50-134 %</i>		<i>10</i>	<i>12/27/22 16:24</i>	<i>EPA 8270E SIM</i>
			Matrix: Water			Batch: 22L0834		
NWI-122122-97 (A2L0842-03)								
Acenaphthene	12.8	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Acenaphthylene	4.29	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Anthracene	0.930	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Benz(a)anthracene	ND	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Chrysene	ND	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Fluoranthene	1.55	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Fluorene	5.85	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
1-Methylnaphthalene	23.9	0.879	1.76	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
2-Methylnaphthalene	28.5	0.879	1.76	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Naphthalene	227	0.879	1.76	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Phenanthrene	10.8	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Pyrene	1.48	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
Dibenzofuran	2.32	0.440	0.879	ug/L	20	12/27/22 16:49	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 72 %</i>		<i>Limits: 44-120 %</i>		<i>20</i>	<i>12/27/22 16:49</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>88 %</i>		<i>50-134 %</i>		<i>20</i>	<i>12/27/22 16:49</i>	<i>EPA 8270E SIM</i>

			Matrix: Water			Batch: 22L0834		
TWIA-122122-97 (A2L0842-05)								
Acenaphthene	86.6	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	
Acenaphthylene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	
Anthracene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	
Benz(a)anthracene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	
Benzo(a)pyrene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
			Matrix: Water			Batch: 22L0834			
TWIA-122122-97 (A2L0842-05)									
Chrysene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM		
Fluoranthene	5.30	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	J	
Fluorene	11.4	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM		
1-Methylnaphthalene	73.7	8.60	17.2	ug/L	200	12/27/22 17:15	EPA 8270E SIM		
2-Methylnaphthalene	19.0	8.60	17.2	ug/L	200	12/27/22 17:15	EPA 8270E SIM		
Naphthalene	821	8.60	17.2	ug/L	200	12/27/22 17:15	EPA 8270E SIM		
Phenanthrene	10.6	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM		
Pyrene	5.34	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM	J	
Dibenzofuran	ND	4.30	8.60	ug/L	200	12/27/22 17:15	EPA 8270E SIM		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 44-120 %</i>		<i>200</i>	<i>12/27/22 17:15</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>84 %</i>		<i>50-134 %</i>		<i>200</i>	<i>12/27/22 17:15</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

			Matrix: Water			Batch: 22L0834		
TWIB-122122-97 (A2L0842-06)								
Acenaphthene	525	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Acenaphthylene	ND	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Anthracene	146	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Benz(a)anthracene	55.3	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Benzo(a)pyrene	42.3	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	J
Benzo(b)fluoranthene	37.6	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	J
Benzo(k)fluoranthene	ND	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Benzo(g,h,i)perylene	32.3	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	J
Chrysene	73.9	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Fluoranthene	251	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Fluorene	190	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	32.3	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	J
1-Methylnaphthalene	631	43.5	87.0	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
2-Methylnaphthalene	681	43.5	87.0	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Naphthalene	2180	43.5	87.0	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Phenanthrene	800	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	
Pyrene	300	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWIB-122122-97 (A2L0842-06)			Matrix: Water			Batch: 22L0834		
Dibenzofuran	36.3	21.7	43.5	ug/L	1000	12/27/22 17:40	EPA 8270E SIM	J
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 44-120 %</i>	<i>1000</i>	<i>12/27/22 17:40</i>	<i>EPA 8270E SIM</i>	<i>S-01</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>%</i>		<i>50-134 %</i>	<i>1000</i>	<i>12/27/22 17:40</i>	<i>EPA 8270E SIM</i>	<i>S-01</i>
TWE-122122-97 (A2L0842-07)			Matrix: Water			Batch: 22L0834		
Acenaphthene	59.0	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Acenaphthylene	ND	4.26	4.26	ug/L	20	12/27/22 18:05	EPA 8270E SIM	R-02
Anthracene	5.71	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Benz(a)anthracene	0.715	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	J
Benzo(a)pyrene	ND	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Chrysene	0.825	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	J
Dibenz(a,h)anthracene	ND	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Fluoranthene	8.45	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Fluorene	20.7	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
1-Methylnaphthalene	56.0	0.851	1.70	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
2-Methylnaphthalene	32.7	0.851	1.70	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Naphthalene	132	0.851	1.70	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Phenanthrene	34.7	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Pyrene	8.70	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
Dibenzofuran	4.11	0.426	0.851	ug/L	20	12/27/22 18:05	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 58 %</i>		<i>Limits: 44-120 %</i>	<i>20</i>	<i>12/27/22 18:05</i>	<i>EPA 8270E SIM</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>88 %</i>		<i>50-134 %</i>	<i>20</i>	<i>12/27/22 18:05</i>	<i>EPA 8270E SIM</i>	
TPI-122122-97 (A2L0842-08)			Matrix: Water			Batch: 22L0834		
Acenaphthene	56.2	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Acenaphthylene	ND	3.00	3.00	ug/L	10	12/27/22 18:30	EPA 8270E SIM	R-02
Anthracene	8.89	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Benz(a)anthracene	0.452	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TPI-122122-97 (A2L0842-08)			Matrix: Water			Batch: 22L0834		
Benzo(b)fluoranthene	ND	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Chrysene	0.528	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Fluoranthene	7.65	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Fluorene	21.3	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
1-Methylnaphthalene	47.5	0.400	0.800	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
2-Methylnaphthalene	35.9	0.400	0.800	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Phenanthrene	43.1	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Pyrene	7.78	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
Dibenzofuran	3.70	0.200	0.400	ug/L	10	12/27/22 18:30	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 61 %</i>		<i>Limits: 44-120 %</i>		<i>10</i>	<i>12/27/22 18:30</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>94 %</i>		<i>50-134 %</i>		<i>10</i>	<i>12/27/22 18:30</i>	<i>EPA 8270E SIM</i>
TPI-122122-97 (A2L0842-08RE1)			Matrix: Water			Batch: 22L0834		
Naphthalene	220	4.00	8.00	ug/L	100	12/28/22 13:57	EPA 8270E SIM	
PGAC-122122-97 (A2L0842-09)			Matrix: Water			Batch: 22L0834		
Acenaphthene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Acenaphthylene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Anthracene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Benz(a)anthracene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Chrysene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Fluoranthene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Fluorene	ND	10.4	10.4	ug/L	10	12/27/22 18:55	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.377	0.755	ug/L	10	12/27/22 18:55	EPA 8270E SIM	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PGAC-122122-97 (A2L0842-09)				Matrix: Water		Batch: 22L0834		
2-Methylnaphthalene	ND	0.377	0.755	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Naphthalene	ND	0.377	0.755	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Phenanthrene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Pyrene	ND	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
Dibenzofuran	1.45	0.189	0.377	ug/L	10	12/27/22 18:55	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 68 %</i>		<i>Limits: 44-120 %</i>		<i>10</i>	<i>12/27/22 18:55</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>68 %</i>		<i>50-134 %</i>		<i>10</i>	<i>12/27/22 18:55</i>	<i>EPA 8270E SIM</i>

GACM1-122122-97 (A2L0842-10)				Matrix: Water		Batch: 22L0834		
Acenaphthene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Acenaphthylene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Anthracene	0.0348	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	J
Benz(a)anthracene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Chrysene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Fluoranthene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Fluorene	ND	0.0952	0.0952	ug/L	1	12/27/22 19:20	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Naphthalene	ND	0.0381	0.0762	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Phenanthrene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Pyrene	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
Dibenzofuran	ND	0.0190	0.0381	ug/L	1	12/27/22 19:20	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 62 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/27/22 19:20</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>76 %</i>		<i>50-134 %</i>		<i>1</i>	<i>12/27/22 19:20</i>	<i>EPA 8270E SIM</i>

GACM2-122122-97 (A2L0842-11)				Matrix: Water		Batch: 22L0834		
Acenaphthene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Acenaphthylene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACM2-122122-97 (A2L0842-11)			Matrix: Water			Batch: 22L0834		
Anthracene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Chrysene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Fluoranthene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Fluorene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Naphthalene	ND	0.0377	0.0755	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Phenanthrene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Pyrene	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
Dibenzofuran	ND	0.0189	0.0377	ug/L	1	12/27/22 19:46	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/27/22 19:46</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>71 %</i>		<i>50-134 %</i>		<i>1</i>	<i>12/27/22 19:46</i>	<i>EPA 8270E SIM</i>

GACF1-122122-97 (A2L0842-12)			Matrix: Water			Batch: 22L0834		
Acenaphthene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Acenaphthylene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Anthracene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Chrysene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Fluoranthene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Fluorene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
			Matrix: Water			Batch: 22L0834		
GACF1-122122-97 (A2L0842-12)								
Indeno(1,2,3-cd)pyrene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0392	0.0784	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0392	0.0784	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Naphthalene	ND	0.0392	0.0784	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Phenanthrene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Pyrene	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
Dibenzofuran	ND	0.0196	0.0392	ug/L	1	12/27/22 20:11	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 66 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/27/22 20:11</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>79 %</i>		<i>50-134 %</i>		<i>1</i>	<i>12/27/22 20:11</i>	<i>EPA 8270E SIM</i>

			Matrix: Water			Batch: 22L0834		
GACF2-122122-97 (A2L0842-13)								
Acenaphthene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Acenaphthylene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Anthracene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Chrysene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Fluoranthene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Fluorene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0388	0.0777	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0388	0.0777	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Naphthalene	0.0445	0.0388	0.0777	ug/L	1	12/27/22 20:36	EPA 8270E SIM	J
Phenanthrene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Pyrene	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
Dibenzofuran	ND	0.0194	0.0388	ug/L	1	12/27/22 20:36	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 64 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/27/22 20:36</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>83 %</i>		<i>50-134 %</i>		<i>1</i>	<i>12/27/22 20:36</i>	<i>EPA 8270E SIM</i>

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAf) by EPA 1631E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SI-122122-97 (A2L0842-01)				Matrix: Water		Batch: 22L0967		
Mercury	ND	0.000500	0.00100	ug/L	1	12/30/22 16:07	EPA 1631E-LL	
NWI-122122-97 (A2L0842-03)				Matrix: Water		Batch: 22L0967		
Mercury	0.000515	0.000500	0.00100	ug/L	1	12/30/22 16:12	EPA 1631E-LL	J
TWIA-122122-97 (A2L0842-05)				Matrix: Water		Batch: 22L0967		
Mercury	ND	0.000500	0.00100	ug/L	1	12/30/22 16:27	EPA 1631E-LL	
TWIB-122122-97 (A2L0842-06)				Matrix: Water		Batch: 22L0967		
Mercury	ND	0.000500	0.00100	ug/L	1	12/30/22 16:32	EPA 1631E-LL	
TPI-122122-97 (A2L0842-08)				Matrix: Water		Batch: 22L0967		
Mercury	ND	0.000500	0.00100	ug/L	1	12/30/22 16:37	EPA 1631E-LL	
PGAC-122122-97 (A2L0842-09)				Matrix: Water		Batch: 22L0967		
Mercury	0.00212	0.000500	0.00100	ug/L	1	12/30/22 16:42	EPA 1631E-LL	
GACM1-122122-97 (A2L0842-10)				Matrix: Water		Batch: 22L0967		
Mercury	0.00254	0.000500	0.00100	ug/L	1	12/30/22 16:47	EPA 1631E-LL	
GACM2-122122-97 (A2L0842-11RE1)				Matrix: Water		Batch: 23A0034		
Mercury	0.0279	0.00200	0.00400	ug/L	1	01/04/23 16:19	EPA 1631E-LL	
GACF1-122122-97 (A2L0842-12)				Matrix: Water		Batch: 22L0967		
Mercury	0.00176	0.000500	0.00100	ug/L	1	12/30/22 16:57	EPA 1631E-LL	
GACF2-122122-97 (A2L0842-13)				Matrix: Water		Batch: 22L0967		
Mercury	0.0147	0.000500	0.00100	ug/L	1	12/30/22 17:02	EPA 1631E-LL	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SI-122122-97 (A2L0842-01) Matrix: Water								
Batch: 22L0970								
Copper	ND	5.00	10.0	ug/L	5	12/31/22 04:21	EPA 6020B	R-04
Iron	35900	125	250	ug/L	5	12/31/22 04:21	EPA 6020B	
SE-122122-97 (A2L0842-02) Matrix: Water								
Batch: 22L0970								
Copper	ND	5.00	10.0	ug/L	5	12/31/22 04:26	EPA 6020B	R-04
Iron	36300	125	250	ug/L	5	12/31/22 04:26	EPA 6020B	
NWI-122122-97 (A2L0842-03) Matrix: Water								
Batch: 22L0970								
Copper	50.2	5.00	10.0	ug/L	5	12/31/22 04:31	EPA 6020B	
Iron	84300	125	250	ug/L	5	12/31/22 04:31	EPA 6020B	
NWE-122122-97 (A2L0842-04) Matrix: Water								
Batch: 22L0970								
Copper	ND	5.00	10.0	ug/L	5	12/31/22 04:36	EPA 6020B	R-04
Iron	58500	125	250	ug/L	5	12/31/22 04:36	EPA 6020B	
TWIA-122122-97 (A2L0842-05) Matrix: Water								
Batch: 22L0970								
Copper	ND	5.00	10.0	ug/L	5	12/31/22 04:41	EPA 6020B	R-04
Iron	30500	125	250	ug/L	5	12/31/22 04:41	EPA 6020B	
TWIB-122122-97 (A2L0842-06) Matrix: Water								
Batch: 22L0970								
Copper	ND	5.00	10.0	ug/L	5	12/31/22 04:46	EPA 6020B	R-04
Iron	55800	125	250	ug/L	5	12/31/22 04:46	EPA 6020B	
TWE-122122-97 (A2L0842-07) Matrix: Water								
Batch: 22L0970								
Copper	ND	5.00	10.0	ug/L	5	12/31/22 05:01	EPA 6020B	R-04
Iron	54900	125	250	ug/L	5	12/31/22 05:01	EPA 6020B	
TPI-122122-97 (A2L0842-08) Matrix: Water								
Batch: 22L0970								

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
TPI-122122-97 (A2L0842-08) Matrix: Water									
Copper	ND	5.00	10.0	ug/L	5	12/31/22 05:06	EPA 6020B	R-04	
Iron	51100	125	250	ug/L	5	12/31/22 05:06	EPA 6020B		
PGAC-122122-97 (A2L0842-09RE1) Matrix: Water									
Batch: 22L0970									
Copper	ND	2.00	4.00	ug/L	2	01/04/23 20:06	EPA 6020B	R-04	
Iron	236	50.0	100	ug/L	2	01/04/23 20:06	EPA 6020B		
GACM1-122122-97 (A2L0842-10RE1) Matrix: Water									
Batch: 22L0970									
Copper	3.90	2.00	4.00	ug/L	2	01/04/23 20:11	EPA 6020B	J, R-04	
Iron	110	50.0	100	ug/L	2	01/04/23 20:11	EPA 6020B		
GACM2-122122-97 (A2L0842-11RE1) Matrix: Water									
Batch: 22L0970									
Copper	ND	2.00	4.00	ug/L	2	01/04/23 20:16	EPA 6020B	R-04	
Iron	108	50.0	100	ug/L	2	01/04/23 20:16	EPA 6020B		
GACF1-122122-97 (A2L0842-12) Matrix: Water									
Batch: 22L0970									
Arsenic	1.30	0.500	1.00	ug/L	1	12/31/22 05:25	EPA 6020B		
Barium	9.38	1.00	2.00	ug/L	1	12/31/22 05:25	EPA 6020B		
Chromium	ND	1.00	2.00	ug/L	1	12/31/22 05:25	EPA 6020B		
Copper	ND	1.00	2.00	ug/L	1	12/31/22 05:25	EPA 6020B		
Iron	211	25.0	50.0	ug/L	1	12/31/22 05:25	EPA 6020B		
Lead	ND	0.110	0.200	ug/L	1	12/31/22 05:25	EPA 6020B		
Mercury	ND	0.0400	0.0800	ug/L	1	12/31/22 05:25	EPA 6020B		
Silver	ND	0.100	0.200	ug/L	1	12/31/22 05:25	EPA 6020B		
GACF1-122122-97 (A2L0842-12RE1) Matrix: Water									
Batch: 22L0970									
Cadmium	ND	0.100	0.200	ug/L	1	01/03/23 18:21	EPA 6020B		
Selenium	ND	0.500	1.00	ug/L	1	01/03/23 18:21	EPA 6020B		
GACF2-122122-97 (A2L0842-13) Matrix: Water									

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
GACF2-122122-97 (A2L0842-13)		Matrix: Water							
Batch: 22L0970									
Arsenic	1.16	0.500	1.00	ug/L	1	12/31/22 05:30	EPA 6020B		
Barium	7.87	1.00	2.00	ug/L	1	12/31/22 05:30	EPA 6020B		
Chromium	ND	1.00	2.00	ug/L	1	12/31/22 05:30	EPA 6020B		
Copper	ND	1.00	2.00	ug/L	1	12/31/22 05:30	EPA 6020B		
Iron	323	25.0	50.0	ug/L	1	12/31/22 05:30	EPA 6020B		
Lead	ND	0.110	0.200	ug/L	1	12/31/22 05:30	EPA 6020B		
Mercury	ND	0.0400	0.0800	ug/L	1	12/31/22 05:30	EPA 6020B		
Silver	ND	0.100	0.200	ug/L	1	12/31/22 05:30	EPA 6020B		
GACF2-122122-97 (A2L0842-13RE1)		Matrix: Water							
Batch: 22L0970									
Cadmium	ND	0.100	0.200	ug/L	1	01/03/23 18:36	EPA 6020B		
Selenium	ND	0.500	1.00	ug/L	1	01/03/23 18:36	EPA 6020B		

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ANALYTICAL SAMPLE RESULTS

HEM (Oil and Grease) and SGT-HEM by EPA 1664B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SI-122122-97 (A2L0842-01)				Matrix: Water		Batch: 23A0431		
HEM (Oil and Grease)	ND	4720	4720	ug/L	1	01/13/23 16:25	EPA 1664B	PRES
SE-122122-97 (A2L0842-02)				Matrix: Water		Batch: 23A0431		
HEM (Oil and Grease)	6310	4850	4850	ug/L	1	01/13/23 16:25	EPA 1664B	
NWI-122122-97 (A2L0842-03)				Matrix: Water		Batch: 23A0431		
HEM (Oil and Grease)	ND	4850	4850	ug/L	1	01/13/23 16:25	EPA 1664B	
NWE-122122-97 (A2L0842-04)				Matrix: Water		Batch: 23A0431		
HEM (Oil and Grease)	ND	4850	4850	ug/L	1	01/13/23 16:25	EPA 1664B	
TWIA-122122-97 (A2L0842-05)				Matrix: Water		Batch: 23A0431		
HEM (Oil and Grease)	ND	4720	4720	ug/L	1	01/13/23 16:25	EPA 1664B	
TWIB-122122-97 (A2L0842-06)				Matrix: Water		Batch: 23A0431		
HEM (Oil and Grease)	32300	4810	4810	ug/L	1	01/13/23 16:25	EPA 1664B	
TWE-122122-97 (A2L0842-07)				Matrix: Water		Batch: 23A0431		
HEM (Oil and Grease)	ND	4760	4760	ug/L	1	01/13/23 16:25	EPA 1664B	PRES
TPI-122122-97 (A2L0842-08)				Matrix: Water		Batch: 23A0431		
HEM (Oil and Grease)	ND	4850	4850	ug/L	1	01/13/23 16:25	EPA 1664B	PRES

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ANALYTICAL SAMPLE RESULTS

Total Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SI-122122-97 (A2L0842-01)				Matrix: Water		Batch: 22L0884		
Total Cyanide	180	12.5	25.0	ug/L	5	12/28/22 13:06	D7511-12	
SE-122122-97 (A2L0842-02)				Matrix: Water		Batch: 22L0884		
Total Cyanide	181	12.5	25.0	ug/L	5	12/28/22 13:16	D7511-12	
NWI-122122-97 (A2L0842-03)				Matrix: Water		Batch: 22L0884		
Total Cyanide	96.5	12.5	25.0	ug/L	5	12/28/22 13:24	D7511-12	
NWE-122122-97 (A2L0842-04)				Matrix: Water		Batch: 22L0884		
Total Cyanide	105	12.5	25.0	ug/L	5	12/28/22 13:26	D7511-12	
TWIA-122122-97 (A2L0842-05)				Matrix: Water		Batch: 22L0884		
Total Cyanide	191	12.5	25.0	ug/L	5	12/28/22 13:30	D7511-12	PRES
TWIB-122122-97 (A2L0842-06)				Matrix: Water		Batch: 22L0884		
Total Cyanide	70.4	12.5	25.0	ug/L	5	12/28/22 13:32	D7511-12	PRES
TWE-122122-97 (A2L0842-07)				Matrix: Water		Batch: 22L0884		
Total Cyanide	98.3	12.5	25.0	ug/L	5	12/28/22 13:34	D7511-12	
TPI-122122-97 (A2L0842-08)				Matrix: Water		Batch: 22L0884		
Total Cyanide	118	12.5	25.0	ug/L	5	12/28/22 13:38	D7511-12	
PGAC-122122-97 (A2L0842-09)				Matrix: Water		Batch: 22L0884		
Total Cyanide	127	12.5	25.0	ug/L	5	12/28/22 13:40	D7511-12	PRES
GACM1-122122-97 (A2L0842-10)				Matrix: Water		Batch: 22L0884		
Total Cyanide	128	12.5	25.0	ug/L	5	12/28/22 13:50	D7511-12	
GACM2-122122-97 (A2L0842-11)				Matrix: Water		Batch: 22L0884		
Total Cyanide	117	12.5	25.0	ug/L	5	12/28/22 13:52	D7511-12	
GACF1-122122-97 (A2L0842-12)				Matrix: Water		Batch: 22L0884		
Total Cyanide	122	12.5	25.0	ug/L	5	12/28/22 13:54	D7511-12	
GACF2-122122-97 (A2L0842-13)				Matrix: Water		Batch: 22L0884		

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ANALYTICAL SAMPLE RESULTS

Total Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACF2-122122-97 (A2L0842-13)				Matrix: Water		Batch: 22L0884		
Total Cyanide	115	12.5	25.0	ug/L	5	12/28/22 13:58	D7511-12	

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ANALYTICAL SAMPLE RESULTS

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACF1-122122-97 (A2L0842-12)				Matrix: Water		Batch: 23A0024		
Available Cyanide	16.1	1.00	2.00	ug/L	1	01/03/23 13:10	D6888-09	
GACF2-122122-97 (A2L0842-13)				Matrix: Water		Batch: 23A0024		
Available Cyanide	17.0	1.00	2.00	ug/L	1	01/03/23 13:16	D6888-09	

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ANALYTICAL SAMPLE RESULTS

Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACF1-122122-97 (A2L0842-12)				Matrix: Water		Batch: 22L0814		
Free Cyanide	8.08	2.50	5.00	ug/L	1	12/22/22 10:52	D7237-15A	
GACF2-122122-97 (A2L0842-13)				Matrix: Water		Batch: 22L0814		
Free Cyanide	8.22	2.50	5.00	ug/L	1	12/22/22 10:54	D7237-15A	

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ANALYTICAL SAMPLE RESULTS

Cyanide Interference Testing

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PGAC-122122-97 (A2L0842-09)				Matrix: Water		Batch: 22L0800		
CN_Sulfides	ND	0.500	0.500	N/A	1	12/21/22 17:58	D7365-09a	CN-03
CN_Oxidizers	DET	0.500	0.500	N/A	1	12/21/22 17:58	D7365-09a	CN-03
CN_Aldehydes	ND	0.500	0.500	N/A	1	12/21/22 17:58	D7365-09a	CN-03

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ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TPI-122122-97 (A2L0842-08)				Matrix: Water				
Batch: 22L0811								
Total Suspended Solids	336000	10000	10000	ug/L	1	12/22/22 09:57	SM 2540 D	
GACF1-122122-97 (A2L0842-12)				Matrix: Water				
Batch: 22L0811								
Total Suspended Solids	ND	5000	5000	ug/L	1	12/22/22 09:57	SM 2540 D	SL-1
GACF2-122122-97 (A2L0842-13)				Matrix: Water				
Batch: 22L0811								
Total Suspended Solids	ND	5000	5000	ug/L	1	12/22/22 09:57	SM 2540 D	SL-1

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Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2L0842 - 01 17 23 0559

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0927 - EPA 5030C						Water						
Blank (22L0927-BLK1)			Prepared: 12/29/22 08:09 Analyzed: 12/29/22 20:29									
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2L0842 - 01 17 23 0559

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0927 - EPA 5030C						Water						
Blank (22L0927-BLK1)			Prepared: 12/29/22 08:09			Analyzed: 12/29/22 20:29						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 103 % Limits: 80-120 % Dilution: 1x

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0927 - EPA 5030C						Water						
Blank (22L0927-BLK1)						Prepared: 12/29/22 08:09 Analyzed: 12/29/22 20:29						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (22L0927-BS1)						Prepared: 12/29/22 08:09 Analyzed: 12/29/22 19:45						
EPA 8260D												
Acetone	44.4	10.0	20.0	ug/L	1	40.0	---	111	80-120%	---	---	
Acrylonitrile	23.0	1.00	2.00	ug/L	1	20.0	---	115	80-120%	---	---	
Benzene	21.2	0.100	0.200	ug/L	1	20.0	---	106	80-120%	---	---	
Bromobenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Bromochloromethane	23.0	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Bromodichloromethane	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Bromoform	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Bromomethane	21.9	5.00	5.00	ug/L	1	20.0	---	110	80-120%	---	---	
2-Butanone (MEK)	44.7	5.00	10.0	ug/L	1	40.0	---	112	80-120%	---	---	
n-Butylbenzene	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
sec-Butylbenzene	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
tert-Butylbenzene	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Carbon disulfide	22.6	5.00	10.0	ug/L	1	20.0	---	113	80-120%	---	---	
Carbon tetrachloride	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Chlorobenzene	20.5	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Chloroethane	24.6	5.00	5.00	ug/L	1	20.0	---	123	80-120%	---	---	Q-56
Chloroform	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Chloromethane	21.7	2.50	5.00	ug/L	1	20.0	---	109	80-120%	---	---	
2-Chlorotoluene	19.9	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
4-Chlorotoluene	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Dibromochloromethane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dibromo-3-chloropropane	20.0	2.50	5.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Dibromomethane	21.9	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,2-Dichlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichlorobenzene	21.1	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
1,4-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Dichlorodifluoromethane	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,1-Dichloroethane	21.7	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Monthly (2022)	
2749 Lockport Road	Project Number: 000029-02-20-2	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2L0842 - 01 17 23 0559

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0927 - EPA 5030C						Water						
LCS (22L0927-BS1)			Prepared: 12/29/22 08:09 Analyzed: 12/29/22 19:45									
1,2-Dichloroethane (EDC)	22.0	0.200	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
1,1-Dichloroethene	23.8	0.200	0.400	ug/L	1	20.0	---	119	80-120%	---	---	
cis-1,2-Dichloroethene	21.7	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
trans-1,2-Dichloroethene	21.4	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
1,2-Dichloropropane	21.3	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
1,3-Dichloropropane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
2,2-Dichloropropane	19.3	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,1-Dichloropropene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
cis-1,3-Dichloropropene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
trans-1,3-Dichloropropene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Ethylbenzene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Hexachlorobutadiene	19.6	2.50	5.00	ug/L	1	20.0	---	98	80-120%	---	---	
2-Hexanone	42.6	5.00	10.0	ug/L	1	40.0	---	106	80-120%	---	---	
Isopropylbenzene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
4-Isopropyltoluene	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Methylene chloride	22.6	5.00	10.0	ug/L	1	20.0	---	113	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	44.9	5.00	10.0	ug/L	1	40.0	---	112	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Naphthalene	20.9	1.00	2.00	ug/L	1	20.0	---	104	80-120%	---	---	
n-Propylbenzene	21.6	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
Styrene	22.9	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
1,1,1,2-Tetrachloroethane	19.8	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
1,1,2,2-Tetrachloroethane	22.1	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Tetrachloroethene (PCE)	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
Toluene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,2,3-Trichlorobenzene	20.3	1.00	2.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2,4-Trichlorobenzene	19.7	1.00	2.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,1,1-Trichloroethane	21.5	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
1,1,2-Trichloroethane	20.5	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Trichloroethene (TCE)	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
Trichlorofluoromethane	22.8	1.00	2.00	ug/L	1	20.0	---	114	80-120%	---	---	
1,2,3-Trichloropropane	21.7	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,2,4-Trimethylbenzene	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
1,3,5-Trimethylbenzene	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Monthly (2022)	
2749 Lockport Road	Project Number: 000029-02-20-2	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2L0842 - 01 17 23 0559

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0927 - EPA 5030C						Water						
LCS (22L0927-BS1)			Prepared: 12/29/22 08:09			Analyzed: 12/29/22 19:45						
Vinyl chloride	23.6	0.200	0.400	ug/L	1	20.0	---	118	80-120%	---	---	
m,p-Xylene	43.6	0.500	1.00	ug/L	1	40.0	---	109	80-120%	---	---	
o-Xylene	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22L0927-DUP1) Prepared: 12/29/22 08:09 Analyzed: 12/30/22 03:33

QC Source Sample: SE-122122-97 (A2L0842-02)

EPA 8260D

Acetone	ND	50.0	100	ug/L	5	---	ND	---	---	---	30%
Acrylonitrile	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	30%
Benzene	25.7	0.500	1.00	ug/L	5	---	26.4	---	---	3	30%
Bromobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%
Bromochloromethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
Bromodichloromethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
Bromoform	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
Bromomethane	ND	25.0	25.0	ug/L	5	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%
n-Butylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
Carbon disulfide	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
Chlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%
Chloroethane	ND	25.0	25.0	ug/L	5	---	ND	---	---	---	30%
Chloroform	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
Chloromethane	ND	12.5	25.0	ug/L	5	---	ND	---	---	---	30%
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
Dibromochloromethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%
Dibromomethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0927 - EPA 5030C						Water						
Duplicate (22L0927-DUP1)			Prepared: 12/29/22 08:09 Analyzed: 12/30/22 03:33									
QC Source Sample: SE-122122-97 (A2L0842-02)												
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Ethylbenzene	10.7	1.25	2.50	ug/L	5	---	11.8	---	---	9	30%	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	---	ND	---	---	---	30%	
2-Hexanone	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%	
Isopropylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Methylene chloride	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Naphthalene	2230	5.00	10.0	ug/L	5	---	2250	---	---	0.8	30%	E
n-Propylbenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Styrene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
Toluene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0927 - EPA 5030C						Water						
Duplicate (22L0927-DUP1)			Prepared: 12/29/22 08:09 Analyzed: 12/30/22 03:33									
QC Source Sample: SE-122122-97 (A2L0842-02)												
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	5.10	2.50	5.00	ug/L	5	---	5.35	---	---	5	30%	
1,3,5-Trimethylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Vinyl chloride	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
m,p-Xylene	6.80	2.50	5.00	ug/L	5	---	7.30	---	---	7	30%	
o-Xylene	6.00	1.25	2.50	ug/L	5	---	6.25	---	---	4	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (22L0927-MS1)			Prepared: 12/29/22 08:09 Analyzed: 12/30/22 05:02									
QC Source Sample: TWIB-122122-97 (A2L0842-06)												
EPA 8260D												
Acetone	4730	1000	2000	ug/L	100	4000	ND	118	39-160%	---	---	
Acrylonitrile	2320	100	200	ug/L	100	2000	ND	116	63-135%	---	---	
Benzene	13000	10.0	20.0	ug/L	100	2000	8920	204	79-120%	---	---	Q-03
Bromobenzene	2030	25.0	50.0	ug/L	100	2000	ND	102	80-120%	---	---	
Bromochloromethane	2320	50.0	100	ug/L	100	2000	ND	116	78-123%	---	---	
Bromodichloromethane	2200	50.0	100	ug/L	100	2000	ND	110	79-125%	---	---	
Bromoform	2060	50.0	100	ug/L	100	2000	ND	103	66-130%	---	---	
Bromomethane	1160	500	500	ug/L	100	2000	ND	58	53-141%	---	---	
2-Butanone (MEK)	4660	500	1000	ug/L	100	4000	ND	116	56-143%	---	---	
n-Butylbenzene	2420	50.0	100	ug/L	100	2000	ND	121	75-128%	---	---	
sec-Butylbenzene	2440	50.0	100	ug/L	100	2000	ND	122	77-126%	---	---	
tert-Butylbenzene	2270	50.0	100	ug/L	100	2000	ND	114	78-124%	---	---	
Carbon disulfide	2450	500	1000	ug/L	100	2000	ND	123	64-133%	---	---	
Carbon tetrachloride	2440	50.0	100	ug/L	100	2000	ND	122	72-136%	---	---	
Chlorobenzene	2110	25.0	50.0	ug/L	100	2000	ND	106	80-120%	---	---	
Chloroethane	2730	500	500	ug/L	100	2000	ND	136	60-138%	---	---	Q-54
Chloroform	2210	50.0	100	ug/L	100	2000	ND	110	79-124%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0927 - EPA 5030C						Water						
Matrix Spike (22L0927-MS1)			Prepared: 12/29/22 08:09 Analyzed: 12/30/22 05:02									
QC Source Sample: TWIB-122122-97 (A2L0842-06)												
Chloromethane	1730	250	500	ug/L	100	2000	ND	86	50-139%	---	---	
2-Chlorotoluene	2120	50.0	100	ug/L	100	2000	ND	106	79-122%	---	---	
4-Chlorotoluene	2170	50.0	100	ug/L	100	2000	ND	108	78-122%	---	---	
Dibromochloromethane	2070	50.0	100	ug/L	100	2000	ND	103	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1980	250	500	ug/L	100	2000	ND	99	62-128%	---	---	
1,2-Dibromoethane (EDB)	2060	25.0	50.0	ug/L	100	2000	ND	103	77-121%	---	---	
Dibromomethane	2190	50.0	100	ug/L	100	2000	ND	109	79-123%	---	---	
1,2-Dichlorobenzene	2110	25.0	50.0	ug/L	100	2000	ND	105	80-120%	---	---	
1,3-Dichlorobenzene	2150	25.0	50.0	ug/L	100	2000	ND	107	80-120%	---	---	
1,4-Dichlorobenzene	2100	25.0	50.0	ug/L	100	2000	ND	105	79-120%	---	---	
Dichlorodifluoromethane	2560	50.0	100	ug/L	100	2000	ND	128	32-152%	---	---	
1,1-Dichloroethane	2300	20.0	40.0	ug/L	100	2000	ND	115	77-125%	---	---	
1,2-Dichloroethane (EDC)	2240	20.0	40.0	ug/L	100	2000	ND	112	73-128%	---	---	
1,1-Dichloroethene	2620	20.0	40.0	ug/L	100	2000	ND	131	71-131%	---	---	
cis-1,2-Dichloroethene	2290	20.0	40.0	ug/L	100	2000	ND	114	78-123%	---	---	
trans-1,2-Dichloroethene	2330	20.0	40.0	ug/L	100	2000	ND	117	75-124%	---	---	
1,2-Dichloropropane	2240	25.0	50.0	ug/L	100	2000	ND	112	78-122%	---	---	
1,3-Dichloropropane	2100	50.0	100	ug/L	100	2000	ND	105	80-120%	---	---	
2,2-Dichloropropane	1720	50.0	100	ug/L	100	2000	ND	86	60-139%	---	---	
1,1-Dichloropropene	2440	50.0	100	ug/L	100	2000	ND	122	79-125%	---	---	
cis-1,3-Dichloropropene	1970	50.0	100	ug/L	100	2000	ND	98	75-124%	---	---	
trans-1,3-Dichloropropene	2100	50.0	100	ug/L	100	2000	ND	105	73-127%	---	---	
Ethylbenzene	2690	25.0	50.0	ug/L	100	2000	356	117	79-121%	---	---	
Hexachlorobutadiene	2080	250	500	ug/L	100	2000	ND	104	66-134%	---	---	
2-Hexanone	4510	500	1000	ug/L	100	4000	ND	113	57-139%	---	---	
Isopropylbenzene	2360	50.0	100	ug/L	100	2000	ND	118	72-131%	---	---	
4-Isopropyltoluene	2360	50.0	100	ug/L	100	2000	ND	118	77-127%	---	---	
Methylene chloride	2360	500	1000	ug/L	100	2000	ND	118	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	4600	500	1000	ug/L	100	4000	ND	115	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	2040	50.0	100	ug/L	100	2000	ND	102	71-124%	---	---	
Naphthalene	5560	100	200	ug/L	100	2000	2390	158	61-128%	---	---	Q-03
n-Propylbenzene	2330	25.0	50.0	ug/L	100	2000	ND	117	76-126%	---	---	
Styrene	2360	50.0	100	ug/L	100	2000	ND	118	78-123%	---	---	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0927 - EPA 5030C						Water						
Matrix Spike (22L0927-MS1)			Prepared: 12/29/22 08:09 Analyzed: 12/30/22 05:02									
QC Source Sample: TWIB-122122-97 (A2L0842-06)												
1,1,1,2-Tetrachloroethane	1990	20.0	40.0	ug/L	100	2000	ND	99	78-124%	---	---	
1,1,2,2-Tetrachloroethane	2270	25.0	50.0	ug/L	100	2000	ND	114	71-121%	---	---	
Tetrachloroethene (PCE)	2140	20.0	40.0	ug/L	100	2000	ND	107	74-129%	---	---	
Toluene	2420	25.0	50.0	ug/L	100	2000	275	108	80-121%	---	---	
1,2,3-Trichlorobenzene	2110	100	200	ug/L	100	2000	ND	105	69-129%	---	---	
1,2,4-Trichlorobenzene	2070	100	200	ug/L	100	2000	ND	104	69-130%	---	---	
1,1,1-Trichloroethane	2290	20.0	40.0	ug/L	100	2000	ND	115	74-131%	---	---	
1,1,2-Trichloroethane	2040	25.0	50.0	ug/L	100	2000	ND	102	80-120%	---	---	
Trichloroethene (TCE)	2100	20.0	40.0	ug/L	100	2000	ND	105	79-123%	---	---	
Trichlorofluoromethane	2550	100	200	ug/L	100	2000	ND	127	65-141%	---	---	
1,2,3-Trichloropropane	2140	50.0	100	ug/L	100	2000	ND	107	73-122%	---	---	
1,2,4-Trimethylbenzene	2430	50.0	100	ug/L	100	2000	65.0	118	76-124%	---	---	
1,3,5-Trimethylbenzene	2400	50.0	100	ug/L	100	2000	ND	120	75-124%	---	---	
Vinyl chloride	2500	20.0	40.0	ug/L	100	2000	ND	125	58-137%	---	---	
m,p-Xylene	4780	50.0	100	ug/L	100	4000	155	116	80-121%	---	---	
o-Xylene	2350	25.0	50.0	ug/L	100	2000	125	111	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1002 - EPA 5030C						Water						
Blank (22L1002-BLK1)			Prepared: 12/30/22 12:25 Analyzed: 12/31/22 01:48									
<u>EPA 8260D</u>												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	10.0	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1002 - EPA 5030C						Water						
Blank (22L1002-BLK1)			Prepared: 12/30/22 12:25 Analyzed: 12/31/22 01:48									
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	1.00	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 103 % Limits: 80-120 % Dilution: 1x

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1002 - EPA 5030C						Water						
Blank (22L1002-BLK1)						Prepared: 12/30/22 12:25 Analyzed: 12/31/22 01:48						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>105 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (22L1002-BS1)						Prepared: 12/30/22 12:25 Analyzed: 12/31/22 00:53						
EPA 8260D												
Acetone	38.7	10.0	20.0	ug/L	1	40.0	---	97	80-120%	---	---	ICV-01
Acrylonitrile	19.7	1.00	2.00	ug/L	1	20.0	---	99	80-120%	---	---	
Benzene	19.3	0.100	0.200	ug/L	1	20.0	---	96	80-120%	---	---	
Bromobenzene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Bromochloromethane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Bromodichloromethane	19.5	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Bromoform	16.4	0.500	1.00	ug/L	1	20.0	---	82	80-120%	---	---	
Bromomethane	21.7	5.00	5.00	ug/L	1	20.0	---	108	80-120%	---	---	
2-Butanone (MEK)	39.8	5.00	10.0	ug/L	1	40.0	---	100	80-120%	---	---	ICV-01
n-Butylbenzene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
sec-Butylbenzene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
tert-Butylbenzene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Carbon disulfide	14.7	10.0	10.0	ug/L	1	20.0	---	74	80-120%	---	---	Q-55
Carbon tetrachloride	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Chlorobenzene	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Chloroethane	17.9	5.00	5.00	ug/L	1	20.0	---	89	80-120%	---	---	ICV-01
Chloroform	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Chloromethane	20.0	2.50	5.00	ug/L	1	20.0	---	100	80-120%	---	---	
2-Chlorotoluene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
4-Chlorotoluene	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
Dibromochloromethane	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2-Dibromo-3-chloropropane	16.5	2.50	5.00	ug/L	1	20.0	---	83	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Dibromomethane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichlorobenzene	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
1,3-Dichlorobenzene	19.3	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,4-Dichlorobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Dichlorodifluoromethane	19.7	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,1-Dichloroethane	19.7	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1002 - EPA 5030C						Water						
LCS (22L1002-BS1)			Prepared: 12/30/22 12:25 Analyzed: 12/31/22 00:53									
1,2-Dichloroethane (EDC)	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,1-Dichloroethene	18.1	0.200	0.400	ug/L	1	20.0	---	91	80-120%	---	---	
cis-1,2-Dichloroethene	19.5	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
trans-1,2-Dichloroethene	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichloropropane	19.3	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,3-Dichloropropane	19.9	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
2,2-Dichloropropane	13.7	1.00	1.00	ug/L	1	20.0	---	69	80-120%	---	---	Q-55
1,1-Dichloropropene	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
cis-1,3-Dichloropropene	18.2	0.500	1.00	ug/L	1	20.0	---	91	80-120%	---	---	
trans-1,3-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
Ethylbenzene	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Hexachlorobutadiene	20.3	2.50	5.00	ug/L	1	20.0	---	102	80-120%	---	---	
2-Hexanone	39.6	5.00	10.0	ug/L	1	40.0	---	99	80-120%	---	---	
Isopropylbenzene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
4-Isopropyltoluene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Methylene chloride	20.2	5.00	10.0	ug/L	1	20.0	---	101	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	40.8	5.00	10.0	ug/L	1	40.0	---	102	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	17.0	0.500	1.00	ug/L	1	20.0	---	85	80-120%	---	---	
Naphthalene	17.5	1.00	2.00	ug/L	1	20.0	---	87	80-120%	---	---	
n-Propylbenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Styrene	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,1,1,2-Tetrachloroethane	19.2	0.200	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,2,2-Tetrachloroethane	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Tetrachloroethene (PCE)	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
Toluene	18.1	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,2,3-Trichlorobenzene	16.9	1.00	2.00	ug/L	1	20.0	---	85	80-120%	---	---	
1,2,4-Trichlorobenzene	17.4	1.00	2.00	ug/L	1	20.0	---	87	80-120%	---	---	
1,1,1-Trichloroethane	19.2	0.200	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,2-Trichloroethane	19.3	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Trichloroethene (TCE)	19.0	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
Trichlorofluoromethane	20.5	1.00	2.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2,3-Trichloropropane	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,4-Trimethylbenzene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,3,5-Trimethylbenzene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1002 - EPA 5030C						Water						
LCS (22L1002-BS1)			Prepared: 12/30/22 12:25 Analyzed: 12/31/22 00:53									
Vinyl chloride	20.7	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
m,p-Xylene	39.3	0.500	1.00	ug/L	1	40.0	---	98	80-120%	---	---	
o-Xylene	19.1	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22L1002-DUP1)		Prepared: 12/30/22 12:25 Analyzed: 12/31/22 09:09										
QC Source Sample: Non-SDG (A2L0989-05)												
Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	0.160	0.100	0.200	ug/L	1	---	0.160	---	---	0	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	10.0	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1002 - EPA 5030C						Water						
Duplicate (22L1002-DUP1)			Prepared: 12/30/22 12:25 Analyzed: 12/31/22 09:09									
QC Source Sample: Non-SDG (A2L0989-05)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	1.00	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.400	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1002 - EPA 5030C												
Water												
Duplicate (22L1002-DUP1)												
						Prepared: 12/30/22 12:25 Analyzed: 12/31/22 09:09						
QC Source Sample: Non-SDG (A2L0989-05)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>						
Matrix Spike (22L1002-MS1)												
						Prepared: 12/30/22 12:25 Analyzed: 12/31/22 13:17						
QC Source Sample: Non-SDG (A2L0978-08)												
EPA 8260D												
Acetone	42.4	10.0	20.0	ug/L	1	40.0	ND	106	39-160%	---	---	ICV-01
Acrylonitrile	20.0	1.00	2.00	ug/L	1	20.0	ND	100	63-135%	---	---	
Benzene	20.9	0.100	0.200	ug/L	1	20.0	ND	104	79-120%	---	---	
Bromobenzene	19.4	0.250	0.500	ug/L	1	20.0	ND	97	80-120%	---	---	
Bromochloromethane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	78-123%	---	---	
Bromodichloromethane	20.4	0.500	1.00	ug/L	1	20.0	ND	102	79-125%	---	---	
Bromoform	16.5	0.500	1.00	ug/L	1	20.0	ND	83	66-130%	---	---	
Bromomethane	15.6	5.00	5.00	ug/L	1	20.0	ND	78	53-141%	---	---	
2-Butanone (MEK)	41.2	5.00	10.0	ug/L	1	40.0	ND	103	56-143%	---	---	ICV-01
n-Butylbenzene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	75-128%	---	---	
sec-Butylbenzene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	77-126%	---	---	
tert-Butylbenzene	20.2	0.500	1.00	ug/L	1	20.0	ND	101	78-124%	---	---	
Carbon disulfide	19.0	10.0	10.0	ug/L	1	20.0	ND	95	64-133%	---	---	Q-54b
Carbon tetrachloride	21.7	0.500	1.00	ug/L	1	20.0	ND	109	72-136%	---	---	
Chlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	ND	104	80-120%	---	---	
Chloroethane	18.6	5.00	5.00	ug/L	1	20.0	ND	93	60-138%	---	---	ICV-01
Chloroform	21.0	0.500	1.00	ug/L	1	20.0	ND	105	79-124%	---	---	
Chloromethane	21.4	2.50	5.00	ug/L	1	20.0	ND	107	50-139%	---	---	

Apex Laboratories

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1002 - EPA 5030C						Water						
Matrix Spike (22L1002-MS1)						Prepared: 12/30/22 12:25 Analyzed: 12/31/22 13:17						T-02
QC Source Sample: Non-SDG (A2L0978-08)												
2-Chlorotoluene	19.9	0.500	1.00	ug/L	1	20.0	ND	100	79-122%	---	---	
4-Chlorotoluene	20.0	0.500	1.00	ug/L	1	20.0	ND	100	78-122%	---	---	
Dibromochloromethane	21.5	0.500	1.00	ug/L	1	20.0	ND	107	74-126%	---	---	
1,2-Dibromo-3-chloropropane	16.9	2.50	5.00	ug/L	1	20.0	ND	85	62-128%	---	---	
1,2-Dibromoethane (EDB)	20.4	0.250	0.500	ug/L	1	20.0	ND	102	77-121%	---	---	
Dibromomethane	20.7	0.500	1.00	ug/L	1	20.0	ND	104	79-123%	---	---	
1,2-Dichlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
1,3-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
1,4-Dichlorobenzene	19.7	0.250	0.500	ug/L	1	20.0	ND	99	79-120%	---	---	
Dichlorodifluoromethane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	32-152%	---	---	
1,1-Dichloroethane	21.6	0.200	0.400	ug/L	1	20.0	ND	108	77-125%	---	---	
1,2-Dichloroethane (EDC)	21.0	0.200	0.400	ug/L	1	20.0	ND	105	73-128%	---	---	
1,1-Dichloroethene	23.1	0.200	0.400	ug/L	1	20.0	ND	116	71-131%	---	---	
cis-1,2-Dichloroethene	23.4	0.200	0.400	ug/L	1	20.0	2.26	106	78-123%	---	---	
trans-1,2-Dichloroethene	21.8	0.200	0.400	ug/L	1	20.0	0.320	107	75-124%	---	---	
1,2-Dichloropropane	20.8	0.250	0.500	ug/L	1	20.0	ND	104	78-122%	---	---	
1,3-Dichloropropane	20.9	0.500	1.00	ug/L	1	20.0	ND	104	80-120%	---	---	
2,2-Dichloropropane	10.8	1.00	1.00	ug/L	1	20.0	ND	54	60-139%	---	---	Q-54a
1,1-Dichloropropene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	79-125%	---	---	
cis-1,3-Dichloropropene	17.0	0.500	1.00	ug/L	1	20.0	ND	85	75-124%	---	---	
trans-1,3-Dichloropropene	18.2	0.500	1.00	ug/L	1	20.0	ND	91	73-127%	---	---	
Ethylbenzene	21.3	0.250	0.500	ug/L	1	20.0	ND	106	79-121%	---	---	
Hexachlorobutadiene	21.6	2.50	5.00	ug/L	1	20.0	ND	108	66-134%	---	---	
2-Hexanone	41.2	5.00	10.0	ug/L	1	40.0	ND	103	57-139%	---	---	
Isopropylbenzene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	72-131%	---	---	
4-Isopropyltoluene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	77-127%	---	---	
Methylene chloride	21.2	5.00	10.0	ug/L	1	20.0	ND	106	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	41.8	5.00	10.0	ug/L	1	40.0	ND	105	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	17.0	0.500	1.00	ug/L	1	20.0	ND	85	71-124%	---	---	
Naphthalene	17.4	1.00	2.00	ug/L	1	20.0	ND	87	61-128%	---	---	
n-Propylbenzene	20.7	0.250	0.500	ug/L	1	20.0	ND	104	76-126%	---	---	
Styrene	21.3	0.500	1.00	ug/L	1	20.0	ND	107	78-123%	---	---	
1,1,1,2-Tetrachloroethane	20.3	0.200	0.400	ug/L	1	20.0	ND	102	78-124%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1002 - EPA 5030C						Water						
Matrix Spike (22L1002-MS1)						Prepared: 12/30/22 12:25 Analyzed: 12/31/22 13:17						T-02
QC Source Sample: Non-SDG (A2L0978-08)												
1,1,2,2-Tetrachloroethane	21.4	0.250	0.500	ug/L	1	20.0	ND	107	71-121%	---	---	
Tetrachloroethene (PCE)	21.3	0.200	0.400	ug/L	1	20.0	2.67	93	74-129%	---	---	
Toluene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	80-121%	---	---	
1,2,3-Trichlorobenzene	17.0	1.00	2.00	ug/L	1	20.0	ND	85	69-129%	---	---	
1,2,4-Trichlorobenzene	17.5	1.00	2.00	ug/L	1	20.0	ND	87	69-130%	---	---	
1,1,1-Trichloroethane	21.0	0.200	0.400	ug/L	1	20.0	ND	105	74-131%	---	---	
1,1,2-Trichloroethane	20.2	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
Trichloroethene (TCE)	26.6	0.200	0.400	ug/L	1	20.0	6.76	99	79-123%	---	---	
Trichlorofluoromethane	24.0	1.00	2.00	ug/L	1	20.0	ND	120	65-141%	---	---	
1,2,3-Trichloropropane	19.8	0.500	1.00	ug/L	1	20.0	ND	99	73-122%	---	---	
1,2,4-Trimethylbenzene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	76-124%	---	---	
1,3,5-Trimethylbenzene	21.9	0.500	1.00	ug/L	1	20.0	ND	110	75-124%	---	---	
Vinyl chloride	24.1	0.200	0.400	ug/L	1	20.0	0.540	118	58-137%	---	---	
m,p-Xylene	42.7	0.500	1.00	ug/L	1	40.0	ND	107	80-121%	---	---	
o-Xylene	20.2	0.250	0.500	ug/L	1	20.0	ND	101	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>92 %</i>		<i>80-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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QUALITY CONTROL (QC) SAMPLE RESULTS

Vinyl Chloride by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L1006 - EPA 5030C						Water						
Blank (22L1006-BLK1)			Prepared: 01/04/23 10:00 Analyzed: 01/04/23 13:18									
<u>EPA 8260D SIM</u>												
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (22L1006-BS1)						Prepared: 01/04/23 10:00 Analyzed: 01/04/23 12:21						
<u>EPA 8260D SIM</u>												
Vinyl chloride	0.227	0.0100	0.0200	ug/L	1	0.200	---	113	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						
Duplicate (22L1006-DUP1)						Prepared: 01/04/23 10:00 Analyzed: 01/04/23 16:26						
<u>QC Source Sample: SE-122122-97 (A2L0842-02)</u>												
<u>EPA 8260D SIM</u>												
Vinyl chloride	0.176	0.0500	0.100	ug/L	5	---	0.134	---	---	27	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 121 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
Matrix Spike (22L1006-MS1)						Prepared: 01/04/23 10:00 Analyzed: 01/04/23 14:11						
<u>QC Source Sample: Non-SDG (A2L1013-02)</u>												
<u>EPA 8260D SIM</u>												
Vinyl chloride	0.263	0.0100	0.0200	ug/L	1	0.200	ND	132	58-137%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0834 - EPA 3510C (Acid Extraction)						Water						
Blank (22L0834-BLK1)			Prepared: 12/27/22 06:55 Analyzed: 12/27/22 13:27									
<u>EPA 8270E SIM</u>												
Acenaphthene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0364	0.0727	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0364	0.0727	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0364	0.0727	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 76 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>99 %</i>		<i>50-134 %</i>		<i>"</i>						

LCS (22L0834-BS1)			Prepared: 12/27/22 06:55 Analyzed: 12/27/22 13:53									
<u>EPA 8270E SIM</u>												
Acenaphthene	6.88	0.0200	0.0400	ug/L	1	8.00	---	86	47-122%	---	---	
Acenaphthylene	6.70	0.0200	0.0400	ug/L	1	8.00	---	84	41-130%	---	---	
Anthracene	7.57	0.0200	0.0400	ug/L	1	8.00	---	95	57-123%	---	---	
Benz(a)anthracene	7.61	0.0200	0.0400	ug/L	1	8.00	---	95	58-125%	---	---	
Benzo(a)pyrene	7.70	0.0200	0.0400	ug/L	1	8.00	---	96	54-128%	---	---	
Benzo(b)fluoranthene	7.56	0.0200	0.0400	ug/L	1	8.00	---	95	53-131%	---	---	
Benzo(k)fluoranthene	7.73	0.0200	0.0400	ug/L	1	8.00	---	97	57-129%	---	---	
Benzo(g,h,i)perylene	7.72	0.0200	0.0400	ug/L	1	8.00	---	97	50-134%	---	---	
Chrysene	7.85	0.0200	0.0400	ug/L	1	8.00	---	98	59-123%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Monthly (2022)	
2749 Lockport Road	Project Number: 000029-02-20-2	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2L0842 - 01 17 23 0559

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0834 - EPA 3510C (Acid Extraction)						Water						
LCS (22L0834-BS1)				Prepared: 12/27/22 06:55 Analyzed: 12/27/22 13:53								
Dibenz(a,h)anthracene	8.26	0.0200	0.0400	ug/L	1	8.00	---	103	51-134%	---	---	
Fluoranthene	7.73	0.0200	0.0400	ug/L	1	8.00	---	97	57-128%	---	---	
Fluorene	7.23	0.0200	0.0400	ug/L	1	8.00	---	90	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	7.89	0.0200	0.0400	ug/L	1	8.00	---	99	52-134%	---	---	
1-Methylnaphthalene	5.99	0.0400	0.0800	ug/L	1	8.00	---	75	41-120%	---	---	
2-Methylnaphthalene	5.93	0.0400	0.0800	ug/L	1	8.00	---	74	40-121%	---	---	
Naphthalene	6.07	0.0400	0.0800	ug/L	1	8.00	---	76	40-121%	---	---	
Phenanthrene	7.48	0.0200	0.0400	ug/L	1	8.00	---	94	59-120%	---	---	
Pyrene	7.79	0.0200	0.0400	ug/L	1	8.00	---	97	57-126%	---	---	
Dibenzofuran	6.93	0.0200	0.0400	ug/L	1	8.00	---	87	53-120%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>87 %</i>		<i>50-134 %</i>		<i>"</i>						

LCS Dup (22L0834-BSD1)				Prepared: 12/27/22 06:55 Analyzed: 12/27/22 14:18							Q-19	
EPA 8270E SIM												
Acenaphthene	6.37	0.0200	0.0400	ug/L	1	8.00	---	80	47-122%	8	30%	
Acenaphthylene	6.17	0.0200	0.0400	ug/L	1	8.00	---	77	41-130%	8	30%	
Anthracene	7.06	0.0200	0.0400	ug/L	1	8.00	---	88	57-123%	7	30%	
Benz(a)anthracene	7.17	0.0200	0.0400	ug/L	1	8.00	---	90	58-125%	6	30%	
Benzo(a)pyrene	7.35	0.0200	0.0400	ug/L	1	8.00	---	92	54-128%	5	30%	
Benzo(b)fluoranthene	7.19	0.0200	0.0400	ug/L	1	8.00	---	90	53-131%	5	30%	
Benzo(k)fluoranthene	7.40	0.0200	0.0400	ug/L	1	8.00	---	92	57-129%	4	30%	
Benzo(g,h,i)perylene	7.25	0.0200	0.0400	ug/L	1	8.00	---	91	50-134%	6	30%	
Chrysene	7.62	0.0200	0.0400	ug/L	1	8.00	---	95	59-123%	3	30%	
Dibenz(a,h)anthracene	7.82	0.0200	0.0400	ug/L	1	8.00	---	98	51-134%	5	30%	
Fluoranthene	7.17	0.0200	0.0400	ug/L	1	8.00	---	90	57-128%	8	30%	
Fluorene	6.73	0.0200	0.0400	ug/L	1	8.00	---	84	52-124%	7	30%	
Indeno(1,2,3-cd)pyrene	7.52	0.0200	0.0400	ug/L	1	8.00	---	94	52-134%	5	30%	
1-Methylnaphthalene	5.54	0.0400	0.0800	ug/L	1	8.00	---	69	41-120%	8	30%	
2-Methylnaphthalene	5.48	0.0400	0.0800	ug/L	1	8.00	---	68	40-121%	8	30%	
Naphthalene	5.53	0.0400	0.0800	ug/L	1	8.00	---	69	40-121%	9	30%	
Phenanthrene	6.95	0.0200	0.0400	ug/L	1	8.00	---	87	59-120%	7	30%	
Pyrene	7.12	0.0200	0.0400	ug/L	1	8.00	---	89	57-126%	9	30%	
Dibenzofuran	6.48	0.0200	0.0400	ug/L	1	8.00	---	81	53-120%	7	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0834 - EPA 3510C (Acid Extraction)						Water						
LCS Dup (22L0834-BSD1)						Prepared: 12/27/22 06:55 Analyzed: 12/27/22 14:18						Q-19
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 76 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>87 %</i>		<i>50-134 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



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QUALITY CONTROL (QC) SAMPLE RESULTS

Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAF) by EPA 1631E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0967 - 1631E Mercury (H2O)						Water						
Blank (22L0967-BLK1)			Prepared: 12/29/22 14:06 Analyzed: 12/30/22 15:27									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22L0967-BLK2)			Prepared: 12/29/22 14:06 Analyzed: 12/30/22 15:32									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22L0967-BLK3)			Prepared: 12/29/22 14:06 Analyzed: 12/30/22 15:37									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
LCS (22L0967-BS1)			Prepared: 12/29/22 14:06 Analyzed: 12/30/22 15:42									
<u>EPA 1631E-LL</u>												
Mercury	0.00854	0.000500	0.00100	ug/L	1	0.00800	---	107	80-120%	---	---	
Matrix Spike (22L0967-MS1)			Prepared: 12/29/22 14:06 Analyzed: 12/30/22 15:52									
<u>QC Source Sample: Non-SDG (A2L0804-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00898	0.000500	0.00100	ug/L	1	0.00800	0.000823	102	75-125%	---	---	
Matrix Spike (22L0967-MS2)			Prepared: 12/29/22 14:06 Analyzed: 12/30/22 17:12									
<u>QC Source Sample: Non-SDG (A2L0894-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00976	0.000500	0.00100	ug/L	1	0.00800	0.00183	99	75-125%	---	---	
Matrix Spike Dup (22L0967-MSD1)			Prepared: 12/29/22 14:06 Analyzed: 12/30/22 15:57									
<u>QC Source Sample: Non-SDG (A2L0804-01)</u>												
Mercury	0.00881	0.000500	0.00100	ug/L	1	0.00800	0.000823	100	75-125%	2	24%	
Matrix Spike Dup (22L0967-MSD2)			Prepared: 12/29/22 14:06 Analyzed: 12/30/22 17:27									
<u>QC Source Sample: Non-SDG (A2L0894-01)</u>												
Mercury	0.00864	0.000500	0.00100	ug/L	1	0.00800	0.00183	85	75-125%	12	24%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAF) by EPA 1631E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0967 - 1631E Mercury (H2O)							Water					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAF) by EPA 1631E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0034 - 1631E Mercury (H2O)						Water						
Blank (23A0034-BLK1)			Prepared: 01/03/23 13:13 Analyzed: 01/04/23 14:34									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (23A0034-BLK2)			Prepared: 01/03/23 13:13 Analyzed: 01/04/23 14:39									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (23A0034-BLK3)			Prepared: 01/03/23 13:13 Analyzed: 01/04/23 14:44									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
LCS (23A0034-BS1)			Prepared: 01/03/23 13:13 Analyzed: 01/04/23 14:49									
<u>EPA 1631E-LL</u>												
Mercury	0.00903	0.000500	0.00100	ug/L	1	0.00800	---	113	80-120%	---	---	
Matrix Spike (23A0034-MS1)			Prepared: 01/03/23 13:13 Analyzed: 01/04/23 14:59									
<u>QC Source Sample: Non-SDG (A2L0709-15)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00889	0.000500	0.00100	ug/L	1	0.00800	ND	111	75-125%	---	---	
Matrix Spike (23A0034-MS2)			Prepared: 01/03/23 13:13 Analyzed: 01/04/23 16:39									
<u>QC Source Sample: Non-SDG (A3A0117-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00841	0.000500	0.00100	ug/L	1	0.00800	0.00132	89	75-125%	---	---	
Matrix Spike Dup (23A0034-MSD1)			Prepared: 01/03/23 13:13 Analyzed: 01/04/23 15:04									
<u>QC Source Sample: Non-SDG (A2L0709-15)</u>												
Mercury	0.00811	0.000500	0.00100	ug/L	1	0.00800	ND	101	75-125%	9	24%	
Matrix Spike Dup (23A0034-MSD2)			Prepared: 01/03/23 13:13 Analyzed: 01/04/23 16:44									
<u>QC Source Sample: Non-SDG (A3A0117-01)</u>												
Mercury	0.00862	0.000500	0.00100	ug/L	1	0.00800	0.00132	91	75-125%	3	24%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAF) by EPA 1631E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0034 - 1631E Mercury (H2O)							Water					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0970 - EPA 3015A						Water						
Blank (22L0970-BLK1)			Prepared: 12/29/22 14:32 Analyzed: 12/31/22 03:32									
<u>EPA 6020B</u>												
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.110	0.200	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Blank (22L0970-BLK2)			Prepared: 12/29/22 14:32 Analyzed: 01/03/23 18:16									
<u>EPA 6020B</u>												
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	Q-16
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-16
LCS (22L0970-BS1)			Prepared: 12/29/22 14:32 Analyzed: 12/31/22 03:37									
<u>EPA 6020B</u>												
Arsenic	56.0	0.500	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Barium	60.0	1.00	2.00	ug/L	1	55.6	---	108	80-120%	---	---	
Cadmium	54.5	0.500	1.00	ug/L	1	55.6	---	98	80-120%	---	---	
Chromium	55.0	1.00	2.00	ug/L	1	55.6	---	99	80-120%	---	---	
Copper	56.7	1.00	2.00	ug/L	1	55.6	---	102	80-120%	---	---	
Iron	2860	25.0	50.0	ug/L	1	2780	---	103	80-120%	---	---	
Lead	55.4	0.110	0.200	ug/L	1	55.6	---	100	80-120%	---	---	
Mercury	1.11	0.0400	0.0800	ug/L	1	1.11	---	100	80-120%	---	---	
Selenium	26.7	1.00	2.00	ug/L	1	27.8	---	96	80-120%	---	---	
Silver	28.9	0.100	0.200	ug/L	1	27.8	---	104	80-120%	---	---	
Duplicate (22L0970-DUP1)			Prepared: 12/29/22 14:32 Analyzed: 12/31/22 03:47									
<u>QC Source Sample: Non-SDG (A2L0751-13)</u>												
Arsenic	23.9	2.50	5.00	ug/L	5	---	26.3	---	---	10	20%	
Barium	932	5.00	10.0	ug/L	5	---	927	---	---	0.5	20%	
Cadmium	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	20%	R-04
Chromium	115	5.00	10.0	ug/L	5	---	110	---	---	5	20%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0970 - EPA 3015A						Water						
Duplicate (22L0970-DUP1)						Prepared: 12/29/22 14:32 Analyzed: 12/31/22 03:47						
<u>QC Source Sample: Non-SDG (A2L0751-13)</u>												
Copper	268	5.00	10.0	ug/L	5	---	261	---	---	3	20%	
Iron	82600	125	250	ug/L	5	---	81300	---	---	1	20%	
Lead	18.7	0.550	1.00	ug/L	5	---	18.9	---	---	1	20%	
Mercury	0.711	0.200	0.400	ug/L	5	---	0.696	---	---	2	20%	
Selenium	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	20%	R-04
Silver	0.584	0.500	1.00	ug/L	5	---	0.564	---	---	3	20%	R-04, J

Matrix Spike (22L0970-MS1)						Prepared: 12/29/22 14:32 Analyzed: 12/31/22 04:06						
<u>QC Source Sample: Non-SDG (A2L0751-14)</u>												
<u>EPA 6020B</u>												
Arsenic	63.8	2.50	5.00	ug/L	5	55.6	17.9	83	75-125%	---	---	
Barium	341	5.00	10.0	ug/L	5	55.6	315	46	75-125%	---	---	Q-04
Cadmium	56.3	2.50	5.00	ug/L	5	55.6	ND	101	75-125%	---	---	
Chromium	131	5.00	10.0	ug/L	5	55.6	93.7	68	75-125%	---	---	Q-04
Copper	133	5.00	10.0	ug/L	5	55.6	92.1	73	75-125%	---	---	Q-04
Iron	55600	125	250	ug/L	5	2780	74100	-664	75-125%	---	---	Q-65
Lead	64.5	0.550	1.00	ug/L	5	55.6	8.74	100	75-125%	---	---	
Mercury	1.31	0.200	0.400	ug/L	5	1.11	0.236	97	75-125%	---	---	
Selenium	25.4	5.00	10.0	ug/L	5	27.8	ND	91	75-125%	---	---	
Silver	29.6	0.500	1.00	ug/L	5	27.8	ND	107	75-125%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

HEM (Oil and Grease) and SGT-HEM by EPA 1664B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0431 - EPA 1664B - 2022						Water						
Blank (23A0431-BLK1)			Prepared: 01/13/23 06:54 Analyzed: 01/13/23 16:25									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	ND	5000	5000	ug/L	1	---	---	---	---	---	---	
LCS (23A0431-BS1)			Prepared: 01/13/23 06:54 Analyzed: 01/13/23 16:25									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	34.8			mg/L	1	40.0	---	87	78-114%	---	---	
Matrix Spike (23A0431-MS1)			Prepared: 01/13/23 06:54 Analyzed: 01/13/23 16:25									
<u>QC Source Sample: Non-SDG (A3A0402-01)</u>												
<u>EPA 1664B</u>												
HEM (Oil and Grease)	23.1			mg/L	1	40.0	ND	55	78-114%	---	---	Q-01

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0884 - ASTM D7511-12 (W)						Water						
Blank (22L0884-BLK1)			Prepared: 12/28/22 09:42 Analyzed: 12/28/22 12:46									
<u>D7511-12</u>												
Total Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
LCS (22L0884-BS1)			Prepared: 12/28/22 09:42 Analyzed: 12/28/22 12:48									
<u>D7511-12</u>												
Total Cyanide	26.3	2.50	5.00	ug/L	1	25.0	---	105	84-116%	---	---	
Matrix Spike (22L0884-MS1)			Prepared: 12/28/22 09:42 Analyzed: 12/28/22 12:54									
<u>QC Source Sample: Non-SDG (A2L0729-08)</u>												
<u>D7511-12</u>												
Total Cyanide	214	12.5	25.0	ug/L	5	125	117	77	64-136%	---	---	
Matrix Spike (22L0884-MS2)			Prepared: 12/28/22 09:42 Analyzed: 12/28/22 13:18									
<u>QC Source Sample: SE-122122-97 (A2L0842-02)</u>												
<u>D7511-12</u>												
Total Cyanide	298	12.5	25.0	ug/L	5	125	181	94	64-136%	---	---	E
Matrix Spike Dup (22L0884-MSD1)			Prepared: 12/28/22 09:42 Analyzed: 12/28/22 12:56									
<u>QC Source Sample: Non-SDG (A2L0729-08)</u>												
Total Cyanide	222	12.5	25.0	ug/L	5	125	117	84	64-136%	4	47%	
Matrix Spike Dup (22L0884-MSD2)			Prepared: 12/28/22 09:42 Analyzed: 12/28/22 13:20									
<u>QC Source Sample: SE-122122-97 (A2L0842-02)</u>												
<u>D7511-12</u>												
Total Cyanide	325	12.5	25.0	ug/L	5	125	181	115	64-136%	9	47%	E

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QUALITY CONTROL (QC) SAMPLE RESULTS

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0024 - Method Prep: Aq						Water						
Blank (23A0024-BLK1)			Prepared: 01/03/23 10:38 Analyzed: 01/03/23 13:05									
<u>D6888-09</u>												
Available Cyanide	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
LCS (23A0024-BS1)			Prepared: 01/03/23 10:38 Analyzed: 01/03/23 13:07									
<u>D6888-09</u>												
Available Cyanide	26.2	1.00	2.00	ug/L	1	25.0	---	105	90-117%	---	---	
Matrix Spike (23A0024-MS1)			Prepared: 01/03/23 10:38 Analyzed: 01/03/23 13:11									
<u>QC Source Sample: GACF1-122122-97 (A2L0842-12)</u>												
<u>D6888-09</u>												
Available Cyanide	41.7	1.01	2.01	ug/L	1	25.1	16.1	102	82-130%	---	---	
Matrix Spike Dup (23A0024-MSD1)			Prepared: 01/03/23 10:38 Analyzed: 01/03/23 13:13									
<u>QC Source Sample: GACF1-122122-97 (A2L0842-12)</u>												
<u>D6888-09</u>												
Available Cyanide	42.6	1.01	2.01	ug/L	1	25.1	16.1	105	82-130%	2	11%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0814 - Method Prep: Aq						Water						
Blank (22L0814-BLK1)			Prepared: 12/22/22 09:01 Analyzed: 12/22/22 10:48									
<u>D7237-15A</u>												
Free Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
LCS (22L0814-BS1)			Prepared: 12/22/22 09:01 Analyzed: 12/22/22 10:49									
<u>D7237-15A</u>												
Free Cyanide	25.7	2.50	5.00	ug/L	1	25.0	---	103	90-118%	---	---	
Matrix Spike (22L0814-MS1)			Prepared: 12/22/22 09:01 Analyzed: 12/22/22 10:55									
<u>QC Source Sample: GACF2-122122-97 (A2L0842-13)</u>												
<u>D7237-15A</u>												
Free Cyanide	33.0	2.51	5.03	ug/L	1	25.1	8.22	99	79-121%	---	---	
Matrix Spike Dup (22L0814-MSD1)			Prepared: 12/22/22 09:01 Analyzed: 12/22/22 10:57									
<u>QC Source Sample: GACF2-122122-97 (A2L0842-13)</u>												
<u>D7237-15A</u>												
Free Cyanide	35.1	2.51	5.03	ug/L	1	25.1	8.22	107	79-121%	6	13%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0811 - Total Suspended Solids - 2022						Water						
Blank (22L0811-BLK1)			Prepared: 12/22/22 08:09 Analyzed: 12/22/22 09:57									
<u>SM 2540 D</u>												
Total Suspended Solids	ND	5000	5000	ug/L	1	---	---	---	---	---	---	
Duplicate (22L0811-DUP1)			Prepared: 12/22/22 08:09 Analyzed: 12/22/22 09:57									
<u>QC Source Sample: Non-SDG (A2L0756-03)</u>												
Total Suspended Solids	ND	5000	5000	ug/L	1	---	ND	---	---	---	10%	SL-1
Duplicate (22L0811-DUP2)			Prepared: 12/22/22 08:09 Analyzed: 12/22/22 09:57									
<u>QC Source Sample: GACF1-122122-97 (A2L0842-12)</u>												
<u>SM 2540 D</u>												
Total Suspended Solids	ND	5000	5000	ug/L	1	---	ND	---	---	---	10%	SL-1
Reference (22L0811-SRM1)			Prepared: 12/22/22 08:09 Analyzed: 12/22/22 09:57									
<u>SM 2540 D</u>												
Total Suspended Solids	999			mg/L	1	987		101	85-115%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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SAMPLE PREPARATION INFORMATION

Volatile Organic Compounds by EPA 8260D

<u>Prep: EPA 5030C</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22L0927</u>							
A2L0842-01	Water	EPA 8260D	12/21/22 03:35	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-02	Water	EPA 8260D	12/21/22 03:35	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-03	Water	EPA 8260D	12/21/22 01:15	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-04	Water	EPA 8260D	12/21/22 01:35	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-05	Water	EPA 8260D	12/21/22 01:20	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-06	Water	EPA 8260D	12/21/22 01:35	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-07	Water	EPA 8260D	12/21/22 01:50	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-08	Water	EPA 8260D	12/21/22 04:10	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-09	Water	EPA 8260D	12/21/22 04:00	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-10	Water	EPA 8260D	12/21/22 04:30	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-11	Water	EPA 8260D	12/21/22 00:20	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-12	Water	EPA 8260D	12/21/22 04:10	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
A2L0842-13	Water	EPA 8260D	12/21/22 00:35	12/29/22 08:09	5mL/5mL	5mL/5mL	1.00
<u>Batch: 22L1002</u>							
A2L0842-05RE1	Water	EPA 8260D	12/21/22 01:20	12/30/22 12:25	5mL/5mL	5mL/5mL	1.00

Vinyl Chloride by EPA 8260D SIM

<u>Prep: EPA 5030C</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22L1006</u>							
A2L0842-02	Water	EPA 8260D SIM	12/21/22 03:35	01/04/23 11:09	5mL/5mL	5mL/5mL	1.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

<u>Prep: EPA 3510C (Acid Extraction)</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22L0834</u>							
A2L0842-01	Water	EPA 8270E SIM	12/21/22 03:35	12/27/22 06:55	970mL/2mL	1000mL/2mL	1.03
A2L0842-02	Water	EPA 8270E SIM	12/21/22 03:35	12/27/22 06:55	930mL/2mL	1000mL/2mL	1.08
A2L0842-03	Water	EPA 8270E SIM	12/21/22 01:15	12/27/22 06:55	940mL/2mL	1000mL/2mL	1.06
A2L0842-04	Water	EPA 8270E SIM	12/21/22 01:35	12/27/22 06:55	910mL/2mL	1000mL/2mL	1.10
A2L0842-05	Water	EPA 8270E SIM	12/21/22 01:20	12/27/22 06:55	930mL/2mL	1000mL/2mL	1.08
A2L0842-06	Water	EPA 8270E SIM	12/21/22 01:35	12/27/22 06:55	920mL/2mL	1000mL/2mL	1.09
A2L0842-07	Water	EPA 8270E SIM	12/21/22 01:50	12/27/22 06:55	940mL/2mL	1000mL/2mL	1.06
A2L0842-08	Water	EPA 8270E SIM	12/21/22 04:10	12/27/22 06:55	1000mL/2mL	1000mL/2mL	1.00

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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SAMPLE PREPARATION INFORMATION

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

<u>Prep: EPA 3510C (Acid Extraction)</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A2L0842-08RE1	Water	EPA 8270E SIM	12/21/22 04:10	12/27/22 06:55	1000mL/2mL	1000mL/2mL	1.00
A2L0842-09	Water	EPA 8270E SIM	12/21/22 04:00	12/27/22 06:55	1060mL/2mL	1000mL/2mL	0.94
A2L0842-10	Water	EPA 8270E SIM	12/21/22 04:30	12/27/22 06:55	1050mL/2mL	1000mL/2mL	0.95
A2L0842-11	Water	EPA 8270E SIM	12/21/22 00:20	12/27/22 06:55	1060mL/2mL	1000mL/2mL	0.94
A2L0842-12	Water	EPA 8270E SIM	12/21/22 04:10	12/27/22 06:55	1020mL/2mL	1000mL/2mL	0.98
A2L0842-13	Water	EPA 8270E SIM	12/21/22 00:35	12/27/22 06:55	1030mL/2mL	1000mL/2mL	0.97

Low Level Mercury by Cold Vapor Atomic Fluorescence (CVAF) by EPA 1631E

<u>Prep: 1631E Mercury (H2O)</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22L0967</u>							
A2L0842-01	Water	EPA 1631E-LL	12/21/22 03:35	12/29/22 14:06	20mL/20mL	20mL/20mL	1.00
A2L0842-03	Water	EPA 1631E-LL	12/21/22 01:15	12/29/22 14:06	20mL/20mL	20mL/20mL	1.00
A2L0842-05	Water	EPA 1631E-LL	12/21/22 01:20	12/29/22 14:06	20mL/20mL	20mL/20mL	1.00
A2L0842-06	Water	EPA 1631E-LL	12/21/22 01:35	12/29/22 14:06	20mL/20mL	20mL/20mL	1.00
A2L0842-08	Water	EPA 1631E-LL	12/21/22 04:10	12/29/22 14:06	20mL/20mL	20mL/20mL	1.00
A2L0842-09	Water	EPA 1631E-LL	12/21/22 04:00	12/29/22 14:06	20mL/20mL	20mL/20mL	1.00
A2L0842-10	Water	EPA 1631E-LL	12/21/22 04:30	12/29/22 14:06	20mL/20mL	20mL/20mL	1.00
A2L0842-12	Water	EPA 1631E-LL	12/21/22 04:10	12/29/22 14:06	20mL/20mL	20mL/20mL	1.00
A2L0842-13	Water	EPA 1631E-LL	12/21/22 00:35	12/29/22 14:06	20mL/20mL	20mL/20mL	1.00
<u>Batch: 23A0034</u>							
A2L0842-11RE1	Water	EPA 1631E-LL	12/21/22 00:20	01/03/23 13:13	5mL/20mL	20mL/20mL	4.00

Total Metals by EPA 6020B (ICPMS)

<u>Prep: EPA 3015A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22L0970</u>							
A2L0842-01	Water	EPA 6020B	12/21/22 03:35	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-02	Water	EPA 6020B	12/21/22 03:35	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-03	Water	EPA 6020B	12/21/22 01:15	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-04	Water	EPA 6020B	12/21/22 01:35	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-05	Water	EPA 6020B	12/21/22 01:20	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-06	Water	EPA 6020B	12/21/22 01:35	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-07	Water	EPA 6020B	12/21/22 01:50	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-08	Water	EPA 6020B	12/21/22 04:10	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A2L0842-09RE1	Water	EPA 6020B	12/21/22 04:00	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-10RE1	Water	EPA 6020B	12/21/22 04:30	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-11RE1	Water	EPA 6020B	12/21/22 00:20	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-12	Water	EPA 6020B	12/21/22 04:10	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-12RE1	Water	EPA 6020B	12/21/22 04:10	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-13	Water	EPA 6020B	12/21/22 00:35	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00
A2L0842-13RE1	Water	EPA 6020B	12/21/22 00:35	12/29/22 14:32	45mL/50mL	45mL/50mL	1.00

HEM (Oil and Grease) and SGT-HEM by EPA 1664B

Prep: EPA 1664B - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23A0431							
A2L0842-01	Water	EPA 1664B	12/21/22 03:35	01/13/23 06:54			NA
A2L0842-02	Water	EPA 1664B	12/21/22 03:35	01/13/23 06:54			NA
A2L0842-03	Water	EPA 1664B	12/21/22 01:15	01/13/23 06:54			NA
A2L0842-04	Water	EPA 1664B	12/21/22 01:35	01/13/23 06:54			NA
A2L0842-05	Water	EPA 1664B	12/21/22 01:20	01/13/23 06:54			NA
A2L0842-06	Water	EPA 1664B	12/21/22 01:35	01/13/23 06:54			NA
A2L0842-07	Water	EPA 1664B	12/21/22 01:50	01/13/23 06:54			NA
A2L0842-08	Water	EPA 1664B	12/21/22 04:10	01/13/23 06:54			NA

Total Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12 (W)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22L0884							
A2L0842-01	Water	D7511-12	12/21/22 03:35	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-02	Water	D7511-12	12/21/22 03:35	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-03	Water	D7511-12	12/21/22 01:15	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-04	Water	D7511-12	12/21/22 01:35	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-05	Water	D7511-12	12/21/22 01:20	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-06	Water	D7511-12	12/21/22 01:35	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-07	Water	D7511-12	12/21/22 01:50	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-08	Water	D7511-12	12/21/22 04:10	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-09	Water	D7511-12	12/21/22 04:00	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-10	Water	D7511-12	12/21/22 04:30	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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SAMPLE PREPARATION INFORMATION

Total Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12 (W)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A2L0842-11	Water	D7511-12	12/21/22 00:20	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-12	Water	D7511-12	12/21/22 04:10	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00
A2L0842-13	Water	D7511-12	12/21/22 00:35	12/28/22 09:42	10mL/10mL	10mL/10mL	1.00

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Prep: Method Prep: Ag					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23A0024							
A2L0842-12	Water	D6888-09	12/21/22 04:10	01/03/23 10:38	5mL/5mL	5mL/5mL	1.00
A2L0842-13	Water	D6888-09	12/21/22 00:35	01/03/23 10:38	5mL/5mL	5mL/5mL	1.00

Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection

Prep: Method Prep: Ag					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22L0814							
A2L0842-12	Water	D7237-15A	12/21/22 04:10	12/22/22 09:01	5mL/5mL	5mL/5mL	1.00
A2L0842-13	Water	D7237-15A	12/21/22 00:35	12/22/22 09:01	5mL/5mL	5mL/5mL	1.00

Cyanide Interference Testing

Prep: Method Prep: Ag					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22L0800							
A2L0842-09	Water	D7365-09a	12/21/22 04:00	12/21/22 17:58	1mL/1mL	1mL/1mL	NA

Solid and Moisture Determinations

Prep: Total Suspended Solids - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22L0811							
A2L0842-08	Water	SM 2540 D	12/21/22 04:10	12/22/22 08:09			NA
A2L0842-12	Water	SM 2540 D	12/21/22 04:10	12/22/22 08:09			NA
A2L0842-13	Water	SM 2540 D	12/21/22 00:35	12/22/22 08:09			NA

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- CN-03** Mitigation of detected interferences performed in the laboratory prior to preservation, and within 24 hours of sampling.
- COMP** Sample is a composite of discrete samples. See prep information for details.
- E** Estimated Value. The result is above the calibration range of the instrument.
- ICV-01** Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- PRES** Incomplete field preservation. Additional preservative was added to adjust the pH within the appropriate range for this analysis.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +3%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -11%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -6%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- Q-65** Spike recovery is estimated due to the high analyte concentration of the source sample.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- S-06** Surrogate recovery is outside of established control limits.
- SL-1** Result is considered an estimated value. Less than 1 liter of sample was used in analysis and the method minimum residue of 2.5 mg was not met. Reporting level adjusted based on sample volume used.

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T-02 This Batch QC sample was analyzed outside of the method specified 12 hour analysis window. Results are estimated.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.
- " dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- " wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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ORELAP ID: OR100062

Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Monthly (2022)), and Report ID (A2L0842 - 01 17 23 0559).

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Handwritten signature of Darwin Thomas

Darwin Thomas, Business Development Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Monthly (2022)), and Report ID (A2L0842 - 01 17 23 0559)

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Table header with columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Handwritten signature of Darwin Thomas

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2L0842 - 01 17 23 0559
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APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services Element WO#: A2L0842

Project/Project #: Gasco -- Monthly

Delivery Info:

Date/time received: 12/21/22 @ 1455 By: AJM

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 12/21/22 @ 1552 By: AJM

Chain of Custody included? Yes No Custody seals? Yes No

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>4.1</u>	<u>3.7</u>	<u>2.9</u>	<u>3.2</u>	<u>4.6</u>		
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Ice type: (Gel/Real/Other)	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>		
Condition (In/Out):	<u>In</u>	<u>In</u>	<u>In</u>	<u>In</u>	<u>In</u>		

Cooler out of temp? (Y/N) Possible reason why: _____

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 12/21/22 @ 1600 By: KS

All samples intact? Yes No Comments: _____

1/3 vials broke on TWIA, GAL, NW, 1/3 vials broke on GAL, GAL, NW
Bottle labels/COCs agree? Yes No Comments: label needs 12/21/22 on
with poly of SE

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: 1/6 vials have HS on SE-122122-97. Seal in 3/3 vials on TWIB

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: PH 9 on 125 ml brown NaOH poly on SE, NW, TWIA, TWIB.

Additional information: * 2/3 vials have HS on NW. 1/6 vials have seal on SE.

Labeled by: AJM

Witness: [Signature]

Cooler Inspected by: KS

Form Y-003 R-00

Apex Laboratories

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[Signature]

Darwin Thomas, Business Development Director