



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Friday, December 2, 2022

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

RE: A2J0589 - 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 A2J0589, which was received by the laboratory on 10/19/2022 at 10:19:00AM.

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	0.5 degC	Cooler #2	1.9 degC
Cooler #3	2.4 degC	Cooler #4	3.0 degC
Cooler #5	4.1 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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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.



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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: A2J0589 - 12 02 22 1241
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SI-101922-95	A2J0589-01	Water	10/19/22 03:45	10/19/22 10:19
SE-101922-95	A2J0589-02	Water	10/19/22 03:50	10/19/22 10:19
NWI-101922-95	A2J0589-03	Water	10/19/22 03:20	10/19/22 10:19
NWE-101922-95	A2J0589-04	Water	10/19/22 03:40	10/19/22 10:19
TWIA-101922-95	A2J0589-05	Water	10/19/22 03:55	10/19/22 10:19
TWE-101922-95	A2J0589-06	Water	10/19/22 04:10	10/19/22 10:19
TPI-101922-95	A2J0589-07	Water	10/19/22 01:00	10/19/22 10:19
PGAC-101922-95	A2J0589-08	Water	10/19/22 01:30	10/19/22 10:19
GACM1-101922-95	A2J0589-09	Water	10/19/22 00:15	10/19/22 10:19
GACM2-101922-95	A2J0589-10	Water	10/19/22 01:45	10/19/22 10:19
GACF1-101922-95	A2J0589-11	Water	10/19/22 00:40	10/19/22 10:19
GACF2-101922-95	A2J0589-12	Water	10/19/22 02:00	10/19/22 10:19

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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-101922-95 (A2J0589-01)			Matrix: Water			Batch: 22J0855		
Acetone	ND	25.0	50.0	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Acrylonitrile	ND	2.50	5.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Benzene	142	0.250	0.500	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Bromobenzene	ND	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Bromochloromethane	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Bromodichloromethane	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Bromoform	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Bromomethane	ND	12.5	12.5	ug/L	2.5	10/22/22 04:18	EPA 8260D	
2-Butanone (MEK)	ND	12.5	25.0	ug/L	2.5	10/22/22 04:18	EPA 8260D	
n-Butylbenzene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
sec-Butylbenzene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
tert-Butylbenzene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Carbon disulfide	ND	12.5	25.0	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Carbon tetrachloride	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Chlorobenzene	1.88	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Chloroethane	ND	12.5	12.5	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Chloroform	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Chloromethane	ND	6.25	12.5	ug/L	2.5	10/22/22 04:18	EPA 8260D	
2-Chlorotoluene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
4-Chlorotoluene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Dibromochloromethane	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	6.25	12.5	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Dibromomethane	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,2-Dichlorobenzene	1.18	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	J
1,3-Dichlorobenzene	ND	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,4-Dichlorobenzene	ND	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Dichlorodifluoromethane	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,1-Dichloroethane	ND	0.500	1.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.500	1.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,1-Dichloroethene	ND	0.500	1.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
cis-1,2-Dichloroethene	4.35	0.500	1.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.500	1.00	ug/L	2.5	10/22/22 04:18	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-101922-95 (A2J0589-01)			Matrix: Water			Batch: 22J0855		
1,2-Dichloropropane	ND	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,3-Dichloropropane	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
2,2-Dichloropropane	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,1-Dichloropropene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Ethylbenzene	69.0	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Hexachlorobutadiene	ND	12.5	12.5	ug/L	2.5	10/22/22 04:18	EPA 8260D	
2-Hexanone	ND	12.5	25.0	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Isopropylbenzene	3.60	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
4-Isopropyltoluene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Methylene chloride	ND	12.5	25.0	ug/L	2.5	10/22/22 04:18	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	12.5	25.0	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Methyl tert-butyl ether (MTBE)	3.48	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
n-Propylbenzene	1.48	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Styrene	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.500	1.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Toluene	2.68	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.50	5.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.50	5.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,1,1-Trichloroethane	ND	0.500	1.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,1,2-Trichloroethane	ND	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Trichloroethene (TCE)	ND	0.500	1.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Trichlorofluoromethane	ND	2.50	5.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,2,3-Trichloropropane	ND	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,2,4-Trimethylbenzene	23.7	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
1,3,5-Trimethylbenzene	6.02	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
Vinyl chloride	12.2	0.500	1.00	ug/L	2.5	10/22/22 04:18	EPA 8260D	
m,p-Xylene	38.2	1.25	2.50	ug/L	2.5	10/22/22 04:18	EPA 8260D	
o-Xylene	23.5	0.625	1.25	ug/L	2.5	10/22/22 04:18	EPA 8260D	

Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 112 % Limits: 80-120 % 1 10/22/22 04:18 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-101922-95 (A2J0589-01)			Matrix: Water			Batch: 22J0855		
<i>Surrogate: Toluene-d8 (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/22/22 04:18</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>	<i>1</i>	<i>10/22/22 04:18</i>	<i>EPA 8260D</i>	
SE-101922-95 (A2J0589-02)			Matrix: Water			Batch: 22J0855		
Acetone	ND	10.0	20.0	ug/L	1	10/22/22 03:56	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Benzene	30.1	0.100	0.200	ug/L	1	10/22/22 03:56	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/22/22 03:56	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/22/22 03:56	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/22/22 03:56	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Chlorobenzene	0.920	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/22/22 03:56	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,2-Dichlorobenzene	0.560	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 03:56	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/22/22 03:56	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-101922-95 (A2J0589-02)				Matrix: Water		Batch: 22J0855		
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 03:56	EPA 8260D	
cis-1,2-Dichloroethene	0.840	0.200	0.400	ug/L	1	10/22/22 03:56	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 03:56	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Ethylbenzene	16.6	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	10/22/22 03:56	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/22/22 03:56	EPA 8260D	
Isopropylbenzene	0.620	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	J
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/22/22 03:56	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	10/22/22 03:56	EPA 8260D	
Methyl tert-butyl ether (MTBE)	1.64	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
n-Propylbenzene	0.270	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	J
Styrene	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/22/22 03:56	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/22/22 03:56	EPA 8260D	
Toluene	0.830	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 03:56	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/22/22 03:56	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,2,4-Trimethylbenzene	9.38	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
1,3,5-Trimethylbenzene	2.21	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
Vinyl chloride	0.210	0.200	0.400	ug/L	1	10/22/22 03:56	EPA 8260D	J

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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-101922-95 (A2J0589-02)			Matrix: Water			Batch: 22J0855		
m,p-Xylene	12.0	0.500	1.00	ug/L	1	10/22/22 03:56	EPA 8260D	
o-Xylene	9.82	0.250	0.500	ug/L	1	10/22/22 03:56	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/22/22 03:56</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/22/22 03:56</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/22/22 03:56</i>	<i>EPA 8260D</i>	
NWI-101922-95 (A2J0589-03)			Matrix: Water			Batch: 22J0855		
Acetone	ND	20.0	40.0	ug/L	2	10/22/22 05:00	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Benzene	192	0.200	0.400	ug/L	2	10/22/22 05:00	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	10/22/22 05:00	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	10/22/22 05:00	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	10/22/22 05:00	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	10/22/22 05:00	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	10/22/22 05:00	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	10/22/22 05:00	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	

Apex Laboratories

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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: A2J0589 - 12 02 22 1241
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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
			Matrix: Water			Batch: 22J0855		
NWI-101922-95 (A2J0589-03)								
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
cis-1,2-Dichloroethene	1.20	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Ethylbenzene	10.6	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Hexachlorobutadiene	ND	10.0	10.0	ug/L	2	10/22/22 05:00	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	10/22/22 05:00	EPA 8260D	
Isopropylbenzene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	10/22/22 05:00	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	10.0	20.0	ug/L	2	10/22/22 05:00	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
n-Propylbenzene	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
Toluene	1.02	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	10/22/22 05:00	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	10/22/22 05:00	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-03)			Matrix: Water			Batch: 22J0855		
1,2,4-Trimethylbenzene	1.98	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
Vinyl chloride	0.980	0.400	0.800	ug/L	2	10/22/22 05:00	EPA 8260D	
m,p-Xylene	3.54	1.00	2.00	ug/L	2	10/22/22 05:00	EPA 8260D	
o-Xylene	2.50	0.500	1.00	ug/L	2	10/22/22 05:00	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 113 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 05:00</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 05:00</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 05:00</i>	<i>EPA 8260D</i>
NWE-101922-95 (A2J0589-04)			Matrix: Water			Batch: 22J0855		
Acetone	ND	10.0	20.0	ug/L	1	10/22/22 03:35	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Benzene	53.8	0.100	0.200	ug/L	1	10/22/22 03:35	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/22/22 03:35	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/22/22 03:35	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/22/22 03:35	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/22/22 03:35	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/22/22 03:35	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-04)			Matrix: Water			Batch: 22J0855		
Dibromomethane	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 03:35	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/22/22 03:35	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 03:35	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 03:35	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 03:35	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Ethylbenzene	2.71	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	10/22/22 03:35	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/22/22 03:35	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/22/22 03:35	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	10/22/22 03:35	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/22/22 03:35	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/22/22 03:35	EPA 8260D	
Toluene	0.330	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	J
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 03:35	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-04)			Matrix: Water			Batch: 22J0855		
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/22/22 03:35	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	10/22/22 03:35	EPA 8260D	
m,p-Xylene	0.770	0.500	1.00	ug/L	1	10/22/22 03:35	EPA 8260D	J
o-Xylene	0.870	0.250	0.500	ug/L	1	10/22/22 03:35	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 03:35</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 03:35</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 03:35</i>	<i>EPA 8260D</i>

TWIA-101922-95 (A2J0589-05)			Matrix: Water			Batch: 22J0855		
Acetone	ND	100	200	ug/L	10	10/22/22 05:22	EPA 8260D	
Acrylonitrile	ND	10.0	20.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Bromobenzene	ND	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Bromochloromethane	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Bromodichloromethane	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Bromoform	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Bromomethane	ND	50.0	50.0	ug/L	10	10/22/22 05:22	EPA 8260D	
2-Butanone (MEK)	ND	50.0	100	ug/L	10	10/22/22 05:22	EPA 8260D	
n-Butylbenzene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Carbon disulfide	ND	50.0	100	ug/L	10	10/22/22 05:22	EPA 8260D	
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Chlorobenzene	ND	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Chloroethane	ND	50.0	50.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Chloroform	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Chloromethane	ND	25.0	50.0	ug/L	10	10/22/22 05:22	EPA 8260D	
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Dibromochloromethane	ND	5.00	10.0	ug/L	10	10/22/22 05:22	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-05)			Matrix: Water			Batch: 22J0855		
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	10/22/22 05:22	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Dibromomethane	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
1,1-Dichloroethene	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
cis-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Ethylbenzene	229	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Hexachlorobutadiene	ND	50.0	50.0	ug/L	10	10/22/22 05:22	EPA 8260D	
2-Hexanone	ND	50.0	100	ug/L	10	10/22/22 05:22	EPA 8260D	
Isopropylbenzene	16.0	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Methylene chloride	ND	50.0	100	ug/L	10	10/22/22 05:22	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	50.0	100	ug/L	10	10/22/22 05:22	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
n-Propylbenzene	6.70	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Styrene	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Tetrachloroethene (PCE)	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Toluene	71.3	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	10/22/22 05:22	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-05)			Matrix: Water			Batch: 22J0855		
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	10/22/22 05:22	EPA 8260D	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Trichloroethene (TCE)	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	10/22/22 05:22	EPA 8260D	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
1,2,4-Trimethylbenzene	65.6	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
1,3,5-Trimethylbenzene	10.8	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
Vinyl chloride	ND	2.00	4.00	ug/L	10	10/22/22 05:22	EPA 8260D	
m,p-Xylene	168	5.00	10.0	ug/L	10	10/22/22 05:22	EPA 8260D	
o-Xylene	140	2.50	5.00	ug/L	10	10/22/22 05:22	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 118 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 05:22</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 05:22</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 05:22</i>	<i>EPA 8260D</i>
TWIA-101922-95 (A2J0589-05RE1)			Matrix: Water			Batch: 22J0919		
Benzene	7850	20.0	40.0	ug/L	200	10/24/22 18:04	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/24/22 18:04</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/24/22 18:04</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/24/22 18:04</i>	<i>EPA 8260D</i>
TWE-101922-95 (A2J0589-06)			Matrix: Water			Batch: 22J0855		
Acetone	ND	10.0	20.0	ug/L	1	10/22/22 03:14	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Benzene	87.4	0.100	0.200	ug/L	1	10/22/22 03:14	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/22/22 03:14	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/22/22 03:14	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-06)			Matrix: Water			Batch: 22J0855		
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/22/22 03:14	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/22/22 03:14	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Ethylbenzene	2.80	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	10/22/22 03:14	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/22/22 03:14	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/22/22 03:14	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: A2J0589 - 12 02 22 1241
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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
			Matrix: Water			Batch: 22J0855		
TWE-101922-95 (A2J0589-06)								
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/22/22 03:14	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
Toluene	0.760	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
1,2,4-Trimethylbenzene	0.640	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	10/22/22 03:14	EPA 8260D	
m,p-Xylene	1.70	0.500	1.00	ug/L	1	10/22/22 03:14	EPA 8260D	
o-Xylene	1.66	0.250	0.500	ug/L	1	10/22/22 03:14	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 03:14</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 03:14</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 03:14</i>	<i>EPA 8260D</i>

			Matrix: Water			Batch: 22J0855		
TPI-101922-95 (A2J0589-07)								
Acetone	ND	10.0	20.0	ug/L	1	10/22/22 02:52	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Benzene	45.9	0.100	0.200	ug/L	1	10/22/22 02:52	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/22/22 02:52	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-07)			Matrix: Water			Batch: 22J0855		
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/22/22 02:52	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/22/22 02:52	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/22/22 02:52	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	
cis-1,2-Dichloroethene	0.230	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	J
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Ethylbenzene	3.25	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	10/22/22 02:52	EPA 8260D	

Apex Laboratories

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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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-07)			Matrix: Water			Batch: 22J0855		
2-Hexanone	ND	5.00	10.0	ug/L	1	10/22/22 02:52	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/22/22 02:52	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/22/22 02:52	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	
Toluene	0.450	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	J
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
1,2,4-Trimethylbenzene	0.990	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	10/22/22 02:52	EPA 8260D	
m,p-Xylene	1.63	0.500	1.00	ug/L	1	10/22/22 02:52	EPA 8260D	
o-Xylene	1.50	0.250	0.500	ug/L	1	10/22/22 02:52	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 02:52</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 02:52</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 02:52</i>	<i>EPA 8260D</i>

PGAC-101922-95 (A2J0589-08RE1)			Matrix: Water			Batch: 22J0919		
Acetone	ND	10.0	20.0	ug/L	1	10/24/22 15:36	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Benzene	25.5	0.100	0.200	ug/L	1	10/24/22 15:36	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	

Apex Laboratories

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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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-08RE1)			Matrix: Water			Batch: 22J0919		
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Bromodichloromethane	9.05	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Bromoform	0.730	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	J
Bromomethane	ND	5.00	5.00	ug/L	1	10/24/22 15:36	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/24/22 15:36	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/24/22 15:36	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Chloroform	58.7	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/24/22 15:36	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Dibromochloromethane	1.17	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-08RE1)			Matrix: Water			Batch: 22J0919		
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	10/24/22 15:36	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/24/22 15:36	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/24/22 15:36	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/24/22 15:36	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	10/24/22 15:36	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/24/22 15:36	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	10/24/22 15:36	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/24/22 15:36</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>81 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/24/22 15:36</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/24/22 15:36</i>	<i>EPA 8260D</i>

GACM1-101922-95 (A2J0589-09)			Matrix: Water			Batch: 22J0855		
Acetone	ND	10.0	20.0	ug/L	1	10/22/22 01:27	EPA 8260D	

Apex Laboratories

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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: A2J0589 - 12 02 22 1241
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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
GACM1-101922-95 (A2J0589-09)			Matrix: Water			Batch: 22J0855		
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	10/22/22 01:27	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Bromodichloromethane	17.8	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Bromoform	1.11	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/22/22 01:27	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/22/22 01:27	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/22/22 01:27	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Chloroform	81.4	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/22/22 01:27	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Dibromochloromethane	4.59	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	
cis-1,2-Dichloroethene	0.250	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	J
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/22/22 01:27	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: A2J0589 - 12 02 22 1241
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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
GACM1-101922-95 (A2J0589-09)			Matrix: Water			Batch: 22J0855		
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	10/22/22 01:27	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/22/22 01:27	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/22/22 01:27	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/22/22 01:27	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.530	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	10/22/22 01:27	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/22/22 01:27	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	10/22/22 01:27	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 01:27</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 01:27</i>	<i>EPA 8260D</i>

Apex Laboratories

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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: A2J0589 - 12 02 22 1241
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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
GACM1-101922-95 (A2J0589-09)			Matrix: Water		Batch: 22J0855			
<i>Surrogate: 4-Bromofluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 01:27</i>	<i>EPA 8260D</i>
GACM2-101922-95 (A2J0589-10)			Matrix: Water		Batch: 22J0855			
Acetone	ND	20.0	20.0	ug/L	1	10/22/22 01:49	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Benzene	0.310	0.100	0.200	ug/L	1	10/22/22 01:49	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Bromodichloromethane	1.54	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/22/22 01:49	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/22/22 01:49	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/22/22 01:49	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Chloroform	14.8	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/22/22 01:49	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 01:49	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/22/22 01:49	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 01:49	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: A2J0589 - 12 02 22 1241
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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
GACM2-101922-95 (A2J0589-10)			Matrix: Water			Batch: 22J0855		
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 01:49	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 01:49	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	10/22/22 01:49	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/22/22 01:49	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/22/22 01:49	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/22/22 01:49	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/22/22 01:49	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/22/22 01:49	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 01:49	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/22/22 01:49	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	EPA 8260D	
Vinyl chloride	0.570	0.200	0.400	ug/L	1	10/22/22 01:49	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/22/22 01:49	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: A2J0589 - 12 02 22 1241
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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
GACM2-101922-95 (A2J0589-10)		Matrix: Water			Batch: 22J0855			
o-Xylene	ND	0.250	0.500	ug/L	1	10/22/22 01:49	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 01:49</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 01:49</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 01:49</i>	<i>EPA 8260D</i>
GACF1-101922-95 (A2J0589-11)		Matrix: Water			Batch: 22J0855			
Acetone	ND	20.0	20.0	ug/L	1	10/22/22 02:10	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	10/22/22 02:10	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Bromodichloromethane	20.3	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Bromoform	0.500	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	J
Bromomethane	ND	5.00	5.00	ug/L	1	10/22/22 02:10	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/22/22 02:10	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/22/22 02:10	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Chloroform	106	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/22/22 02:10	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Dibromochloromethane	3.45	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/22/22 02:10	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/22/22 02:10	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: A2J0589 - 12 02 22 1241
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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
GACF1-101922-95 (A2J0589-11)			Matrix: Water			Batch: 22J0855		
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	
cis-1,2-Dichloroethene	0.200	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	J
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	10/22/22 02:10	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/22/22 02:10	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/22/22 02:10	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/22/22 02:10	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.540	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 02:10	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 02:10	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/22/22 02:10	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	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: A2J0589 - 12 02 22 1241
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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
GACF1-101922-95 (A2J0589-11)			Matrix: Water			Batch: 22J0855		
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
Vinyl chloride	0.240	0.200	0.400	ug/L	1	10/22/22 02:10	EPA 8260D	J
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/22/22 02:10	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	10/22/22 02:10	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 02:10</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 02:10</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 02:10</i>	<i>EPA 8260D</i>

GACF2-101922-95 (A2J0589-12)			Matrix: Water			Batch: 22J0855		
Acetone	ND	10.0	20.0	ug/L	1	10/22/22 02:31	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	10/22/22 02:31	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
Bromochloromethane	0.520	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	J
Bromodichloromethane	9.28	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/22/22 02:31	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/22/22 02:31	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/22/22 02:31	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Chloroform	52.9	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/22/22 02:31	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Dibromochloromethane	1.38	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/22/22 02:31	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: A2J0589 - 12 02 22 1241
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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
GACF2-101922-95 (A2J0589-12)			Matrix: Water			Batch: 22J0855		
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	10/22/22 02:31	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/22/22 02:31	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/22/22 02:31	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/22/22 02:31	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/22/22 02:31	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: A2J0589 - 12 02 22 1241
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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
GACF2-101922-95 (A2J0589-12)			Matrix: Water			Batch: 22J0855		
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
Vinyl chloride	0.320	0.200	0.400	ug/L	1	10/22/22 02:31	EPA 8260D	J
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/22/22 02:31	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	10/22/22 02:31	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/22/22 02:31</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 02:31</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/22/22 02:31</i>	<i>EPA 8260D</i>

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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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-01)			Matrix: Water			Batch: 22J0956			
Acenaphthene	300	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Acenaphthylene	ND	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Anthracene	50.5	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Benz(a)anthracene	16.1	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM	J	
Benzo(a)pyrene	ND	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Benzo(b)fluoranthene	ND	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Benzo(k)fluoranthene	ND	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Benzo(g,h,i)perylene	ND	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Chrysene	16.0	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM	J	
Dibenz(a,h)anthracene	ND	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Fluoranthene	51.5	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Fluorene	84.4	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	ND	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
1-Methylnaphthalene	387	21.7	43.5	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
2-Methylnaphthalene	601	21.7	43.5	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Naphthalene	6170	21.7	43.5	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Phenanthrene	244	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Pyrene	59.0	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM		
Dibenzofuran	18.3	10.9	21.7	ug/L	500	10/25/22 14:49	EPA 8270E SIM	J	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 75 %</i>		<i>Limits: 44-120 %</i>		<i>500</i>	<i>10/25/22 14:49</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>10/25/22 14:49</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

SE-101922-95 (A2J0589-02)			Matrix: Water			Batch: 22J0956		
Acenaphthene	141	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Acenaphthylene	ND	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Anthracene	22.5	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Benz(a)anthracene	5.78	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	J
Benzo(a)pyrene	ND	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Chrysene	5.89	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	J
Dibenz(a,h)anthracene	ND	4.17	8.33	ug/L	200	10/25/22 15:14	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-02)			Matrix: Water			Batch: 22J0956		
Fluoranthene	24.5	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Fluorene	53.9	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
1-Methylnaphthalene	146	8.33	16.7	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
2-Methylnaphthalene	156	8.33	16.7	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Naphthalene	1230	8.33	16.7	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Phenanthrene	142	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Pyrene	27.2	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
Dibenzofuran	9.40	4.17	8.33	ug/L	200	10/25/22 15:14	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 68 %</i>		<i>Limits: 44-120 %</i>	<i>200</i>	<i>10/25/22 15:14</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>67 %</i>		<i>50-134 %</i>	<i>200</i>	<i>10/25/22 15:14</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
NWI-101922-95 (A2J0589-03)			Matrix: Water			Batch: 22J0956		
Acenaphthene	7.04	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Acenaphthylene	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Anthracene	1.64	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	J
Benz(a)anthracene	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Benzo(a)pyrene	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Chrysene	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Fluoranthene	1.17	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	J
Fluorene	2.12	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
1-Methylnaphthalene	8.87	2.00	4.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
2-Methylnaphthalene	10.2	2.00	4.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Naphthalene	83.8	2.00	4.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Phenanthrene	8.16	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
Pyrene	1.26	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	J
Dibenzofuran	ND	1.00	2.00	ug/L	50	10/25/22 15:39	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 44-120 %</i>	<i>50</i>	<i>10/25/22 15:39</i>	<i>EPA 8270E SIM</i>	<i>S-05</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: A2J0589 - 12 02 22 1241
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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	
NWI-101922-95 (A2J0589-03)			Matrix: Water		Batch: 22J0956				
<i>Surrogate: p-Terphenyl-d14 (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-134 %</i>		<i>50</i>		<i>10/25/22 15:39 EPA 8270E SIM S-05</i>	
NWE-101922-95 (A2J0589-04)			Matrix: Water		Batch: 22J0956				
Acenaphthene	7.10	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Acenaphthylene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Anthracene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Benz(a)anthracene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Benzo(a)pyrene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Benzo(b)fluoranthene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Benzo(k)fluoranthene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Benzo(g,h,i)perylene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Chrysene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Fluoranthene	1.68	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Fluorene	2.15	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
1-Methylnaphthalene	6.67	1.62	3.23	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
2-Methylnaphthalene	4.49	1.62	3.23	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Naphthalene	43.6	1.62	3.23	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Phenanthrene	7.59	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Pyrene	1.76	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
Dibenzofuran	ND	0.808	1.62	ug/L	40	10/25/22 16:04	EPA 8270E SIM		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 72 %</i>		<i>Limits: 44-120 %</i>		<i>40</i>		<i>10/25/22 16:04 EPA 8270E SIM S-05</i>	
<i>p-Terphenyl-d14 (Surr)</i>		<i>92 %</i>		<i>50-134 %</i>		<i>40</i>		<i>10/25/22 16:04 EPA 8270E SIM S-05</i>	

TWIA-101922-95 (A2J0589-05)			Matrix: Water		Batch: 22J0956			
Acenaphthene	115	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM	
Acenaphthylene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM	
Anthracene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM	
Benz(a)anthracene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM	
Benzo(a)pyrene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	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: A2J0589 - 12 02 22 1241
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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	
TWIA-101922-95 (A2J0589-05)			Matrix: Water			Batch: 22J0956			
Chrysene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM		
Fluoranthene	6.89	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM	J	
Fluorene	13.9	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM		
1-Methylnaphthalene	117	8.00	16.0	ug/L	200	10/25/22 16:30	EPA 8270E SIM		
2-Methylnaphthalene	35.7	8.00	16.0	ug/L	200	10/25/22 16:30	EPA 8270E SIM		
Naphthalene	1880	8.00	16.0	ug/L	200	10/25/22 16:30	EPA 8270E SIM		
Phenanthrene	13.4	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM		
Pyrene	7.40	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM	J	
Dibenzofuran	ND	4.00	8.00	ug/L	200	10/25/22 16:30	EPA 8270E SIM		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 72 %</i>		<i>Limits: 44-120 %</i>		<i>200</i>	<i>10/25/22 16:30</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>85 %</i>		<i>50-134 %</i>		<i>200</i>	<i>10/25/22 16:30</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

TWE-101922-95 (A2J0589-06)			Matrix: Water			Batch: 22J0956		
Acenaphthene	16.7	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Acenaphthylene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Anthracene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Benz(a)anthracene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Benzo(a)pyrene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Chrysene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Fluoranthene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Fluorene	4.09	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	J
Indeno(1,2,3-cd)pyrene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
1-Methylnaphthalene	12.7	4.60	9.20	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
2-Methylnaphthalene	8.46	4.60	9.20	ug/L	100	10/25/22 16:55	EPA 8270E SIM	J
Naphthalene	101	4.60	9.20	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Phenanthrene	11.1	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
Pyrene	ND	2.30	4.60	ug/L	100	10/25/22 16:55	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: A2J0589 - 12 02 22 1241
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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
TWE-101922-95 (A2J0589-06)			Matrix: Water			Batch: 22J0956		
Dibenzofuran	ND	2.30	4.60	ug/L	100	10/25/22 16:55	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 67 %</i>		<i>Limits: 44-120 % 100</i>		<i>10/25/22 16:55</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>93 %</i>		<i>50-134 % 100</i>		<i>10/25/22 16:55</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
TPI-101922-95 (A2J0589-07)			Matrix: Water			Batch: 22J0956		
Acenaphthene	20.3	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Acenaphthylene	2.84	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Anthracene	1.26	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	J
Benz(a)anthracene	ND	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Benzo(a)pyrene	ND	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Chrysene	ND	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Fluoranthene	6.87	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Fluorene	9.99	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
1-Methylnaphthalene	3.47	2.04	4.08	ug/L	50	10/25/22 17:20	EPA 8270E SIM	J
2-Methylnaphthalene	ND	2.04	4.08	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Naphthalene	ND	2.04	4.08	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Phenanthrene	21.1	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Pyrene	6.19	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
Dibenzofuran	ND	1.02	2.04	ug/L	50	10/25/22 17:20	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 74 %</i>		<i>Limits: 44-120 % 50</i>		<i>10/25/22 17:20</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>91 %</i>		<i>50-134 % 50</i>		<i>10/25/22 17:20</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
PGAC-101922-95 (A2J0589-08)			Matrix: Water			Batch: 22J0956		
Acenaphthene	ND	2.08	2.08	ug/L	4	10/25/22 17:45	EPA 8270E SIM	R-02
Acenaphthylene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Anthracene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	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: A2J0589 - 12 02 22 1241
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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-101922-95 (A2J0589-08)			Matrix: Water			Batch: 22J0956		
Benzo(k)fluoranthene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Chrysene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Fluoranthene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Fluorene	ND	6.23	6.23	ug/L	4	10/25/22 17:45	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.151	0.302	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.151	0.302	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Naphthalene	ND	0.151	0.302	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Phenanthrene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Pyrene	ND	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
Dibenzofuran	0.454	0.0755	0.151	ug/L	4	10/25/22 17:45	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 44-120 %</i>		<i>4</i>	<i>10/25/22 17:45</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>72 %</i>		<i>50-134 %</i>		<i>4</i>	<i>10/25/22 17:45</i>	<i>EPA 8270E SIM</i>

GACM1-101922-95 (A2J0589-09)			Matrix: Water			Batch: 22J0956		
Acenaphthene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Acenaphthylene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Anthracene	0.0306	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	J
Benz(a)anthracene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Chrysene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Fluoranthene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Fluorene	ND	0.0762	0.0762	ug/L	1	10/25/22 18:10	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Naphthalene	ND	0.0381	0.0762	ug/L	1	10/25/22 18:10	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: A2J0589 - 12 02 22 1241
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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
GACM1-101922-95 (A2J0589-09)				Matrix: Water		Batch: 22J0956		
Phenanthrene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Pyrene	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
Dibenzofuran	ND	0.0190	0.0381	ug/L	1	10/25/22 18:10	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 82 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>10/25/22 18:10</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>89 %</i>		<i>50-134 %</i>		<i>1</i>	<i>10/25/22 18:10</i>	<i>EPA 8270E SIM</i>
GACM2-101922-95 (A2J0589-10)				Matrix: Water		Batch: 22J0956		
Acenaphthene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Acenaphthylene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Anthracene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Chrysene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Fluoranthene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Fluorene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Naphthalene	ND	0.0377	0.0755	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Phenanthrene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Pyrene	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
Dibenzofuran	ND	0.0189	0.0377	ug/L	1	10/25/22 18:36	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>10/25/22 18:36</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>91 %</i>		<i>50-134 %</i>		<i>1</i>	<i>10/25/22 18:36</i>	<i>EPA 8270E SIM</i>
GACF1-101922-95 (A2J0589-11)				Matrix: Water		Batch: 22J0956		
Acenaphthene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Acenaphthylene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Anthracene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	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: A2J0589 - 12 02 22 1241
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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
GACF1-101922-95 (A2J0589-11)			Matrix: Water			Batch: 22J0956		
Benzo(a)pyrene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Chrysene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Fluoranthene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Fluorene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Naphthalene	ND	0.0381	0.0762	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Phenanthrene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Pyrene	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
Dibenzofuran	ND	0.0190	0.0381	ug/L	1	10/25/22 19:01	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>10/25/22 19:01</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>87 %</i>		<i>50-134 %</i>		<i>1</i>	<i>10/25/22 19:01</i>	<i>EPA 8270E SIM</i>

GACF2-101922-95 (A2J0589-12)			Matrix: Water			Batch: 22J0956		
Acenaphthene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Acenaphthylene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Anthracene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Chrysene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Fluoranthene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Fluorene	ND	0.0660	0.0660	ug/L	1	10/25/22 19:26	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	10/25/22 19:26	EPA 8270E SIM	

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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
GACF2-101922-95 (A2J0589-12)			Matrix: Water			Batch: 22J0956		
2-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Naphthalene	ND	0.0377	0.0755	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Phenanthrene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Pyrene	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
Dibenzofuran	ND	0.0189	0.0377	ug/L	1	10/25/22 19:26	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 63 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>10/25/22 19:26</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>85 %</i>		<i>50-134 %</i>		<i>1</i>	<i>10/25/22 19:26</i>	<i>EPA 8270E SIM</i>

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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-101922-95 (A2J0589-01)				Matrix: Water		Batch: 22J0939		
Mercury	ND	0.000500	0.00100	ug/L	1	10/27/22 14:13	EPA 1631E-LL	Q-42
NWI-101922-95 (A2J0589-03)				Matrix: Water		Batch: 22J0939		
Mercury	ND	0.000500	0.00100	ug/L	1	10/27/22 14:28	EPA 1631E-LL	
TWIA-101922-95 (A2J0589-05)				Matrix: Water		Batch: 22J0939		
Mercury	ND	0.000500	0.00100	ug/L	1	10/27/22 14:33	EPA 1631E-LL	
TPI-101922-95 (A2J0589-07)				Matrix: Water		Batch: 22J0939		
Mercury	ND	0.000500	0.00100	ug/L	1	10/27/22 14:38	EPA 1631E-LL	
PGAC-101922-95 (A2J0589-08)				Matrix: Water		Batch: 22J0939		
Mercury	0.00133	0.000500	0.00100	ug/L	1	10/27/22 14:43	EPA 1631E-LL	
GACM1-101922-95 (A2J0589-09)				Matrix: Water		Batch: 22J0939		
Mercury	0.00148	0.000500	0.00100	ug/L	1	10/27/22 14:48	EPA 1631E-LL	
GACM2-101922-95 (A2J0589-10)				Matrix: Water		Batch: 22J0939		
Mercury	0.0199	0.000500	0.00100	ug/L	1	10/27/22 14:53	EPA 1631E-LL	RR-2
GACM2-101922-95 (A2J0589-10RE1)				Matrix: Water		Batch: 22J1121		
Mercury	0.0198	0.00100	0.00200	ug/L	1	10/28/22 13:39	EPA 1631E-LL	
GACF1-101922-95 (A2J0589-11)				Matrix: Water		Batch: 22J0939		
Mercury	0.00193	0.000500	0.00100	ug/L	1	10/27/22 15:08	EPA 1631E-LL	
GACF2-101922-95 (A2J0589-12)				Matrix: Water		Batch: 22J0939		
Mercury	0.00503	0.000500	0.00100	ug/L	1	10/27/22 15:13	EPA 1631E-LL	

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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-101922-95 (A2J0589-01) Matrix: Water								
Batch: 22J1032								
Copper	ND	5.00	10.0	ug/L	5	10/27/22 19:33	EPA 6020B	R-04
SI-101922-95 (A2J0589-01RE2) Matrix: Water								
Batch: 22J1032								
Iron	34700	250	500	ug/L	10	11/02/22 18:18	EPA 6020B	
SE-101922-95 (A2J0589-02) Matrix: Water								
Batch: 22J1032								
Copper	ND	10.0	20.0	ug/L	10	11/01/22 01:48	EPA 6020B	R-04
SE-101922-95 (A2J0589-02RE1) Matrix: Water								
Batch: 22J1032								
Iron	39800	500	1000	ug/L	20	11/02/22 18:34	EPA 6020B	
NWI-101922-95 (A2J0589-03) Matrix: Water								
Batch: 22J1032								
Copper	ND	5.00	10.0	ug/L	5	11/01/22 01:53	EPA 6020B	R-04
NWI-101922-95 (A2J0589-03RE1) Matrix: Water								
Batch: 22J1032								
Iron	68900	250	500	ug/L	10	11/02/22 18:40	EPA 6020B	
NWE-101922-95 (A2J0589-04) Matrix: Water								
Batch: 22J1032								
Copper	ND	5.00	10.0	ug/L	5	11/01/22 01:58	EPA 6020B	R-04
NWE-101922-95 (A2J0589-04RE1) Matrix: Water								
Batch: 22J1032								
Iron	64600	250	500	ug/L	10	11/02/22 18:45	EPA 6020B	
TWIA-101922-95 (A2J0589-05) Matrix: Water								
Batch: 22J1032								
Copper	ND	1.00	2.00	ug/L	1	11/01/22 02:04	EPA 6020B	
TWIA-101922-95 (A2J0589-05RE1) Matrix: Water								
Batch: 22J1032								

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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
TWIA-101922-95 (A2J0589-05RE1)				Matrix: Water				
Iron	32200	250	500	ug/L	10	11/02/22 18:51	EPA 6020B	
TWE-101922-95 (A2J0589-06)				Matrix: Water				
Batch: 22J1032								
Copper	ND	5.00	10.0	ug/L	5	11/01/22 02:19	EPA 6020B	R-04
TWE-101922-95 (A2J0589-06RE1)				Matrix: Water				
Batch: 22J1032								
Iron	63400	250	500	ug/L	10	11/02/22 18:57	EPA 6020B	
TPI-101922-95 (A2J0589-07)				Matrix: Water				
Batch: 22J1032								
Copper	ND	5.00	10.0	ug/L	5	11/01/22 02:25	EPA 6020B	R-04
TPI-101922-95 (A2J0589-07RE1)				Matrix: Water				
Batch: 22J1032								
Iron	54300	250	500	ug/L	10	11/02/22 19:19	EPA 6020B	
PGAC-101922-95 (A2J0589-08)				Matrix: Water				
Batch: 22J1032								
Copper	ND	5.00	10.0	ug/L	5	11/01/22 02:30	EPA 6020B	R-04
Iron	166	125	250	ug/L	5	11/01/22 02:30	EPA 6020B	J, R-04
GACM1-101922-95 (A2J0589-09)				Matrix: Water				
Batch: 22J1032								
Copper	ND	5.00	10.0	ug/L	5	11/01/22 02:35	EPA 6020B	R-04
Iron	ND	125	250	ug/L	5	11/01/22 02:35	EPA 6020B	R-04
GACM2-101922-95 (A2J0589-10)				Matrix: Water				
Batch: 22J1032								
Copper	ND	5.00	10.0	ug/L	5	11/01/22 02:40	EPA 6020B	R-04
Iron	ND	125	250	ug/L	5	11/01/22 02:40	EPA 6020B	R-04
GACF1-101922-95 (A2J0589-11)				Matrix: Water				
Batch: 22J1032								
Arsenic	1.57	0.500	1.00	ug/L	1	11/01/22 02:46	EPA 6020B	

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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	
GACF1-101922-95 (A2J0589-11)					Matrix: Water				
Barium	7.65	1.00	2.00	ug/L	1	11/01/22 02:46	EPA 6020B		
Cadmium	ND	0.100	0.200	ug/L	1	11/01/22 02:46	EPA 6020B		
Chromium	ND	1.00	2.00	ug/L	1	11/01/22 02:46	EPA 6020B		
Copper	ND	1.00	2.00	ug/L	1	11/01/22 02:46	EPA 6020B		
Lead	ND	0.110	0.200	ug/L	1	11/01/22 02:46	EPA 6020B		
Mercury	ND	0.0400	0.0800	ug/L	1	11/01/22 02:46	EPA 6020B		
Selenium	ND	0.500	1.00	ug/L	1	11/01/22 02:46	EPA 6020B		
Silver	ND	0.100	0.200	ug/L	1	11/01/22 02:46	EPA 6020B		
GACF1-101922-95 (A2J0589-11RE1)					Matrix: Water				
Batch: 22J1032									
Iron	245	50.0	100	ug/L	2	11/02/22 19:25	EPA 6020B		
GACF2-101922-95 (A2J0589-12)					Matrix: Water				
Batch: 22J1032									
Arsenic	1.23	0.500	1.00	ug/L	1	11/01/22 02:51	EPA 6020B		
Barium	21.6	1.00	2.00	ug/L	1	11/01/22 02:51	EPA 6020B		
Cadmium	ND	0.100	0.200	ug/L	1	11/01/22 02:51	EPA 6020B		
Chromium	ND	1.00	2.00	ug/L	1	11/01/22 02:51	EPA 6020B		
Copper	ND	1.00	2.00	ug/L	1	11/01/22 02:51	EPA 6020B		
Lead	ND	0.110	0.200	ug/L	1	11/01/22 02:51	EPA 6020B		
Mercury	ND	0.0400	0.0800	ug/L	1	11/01/22 02:51	EPA 6020B		
Selenium	ND	0.500	1.00	ug/L	1	11/01/22 02:51	EPA 6020B		
Silver	ND	0.100	0.200	ug/L	1	11/01/22 02:51	EPA 6020B		
GACF2-101922-95 (A2J0589-12RE1)					Matrix: Water				
Batch: 22J1032									
Iron	410	50.0	100	ug/L	2	11/02/22 19:30	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-101922-95 (A2J0589-01)				Matrix: Water		Batch: 22J1137		
HEM (Oil and Grease)	6.30	5.00	5.00	mg/L	1	11/07/22 09:17	EPA 1664B	Q-30
SE-101922-95 (A2J0589-02)				Matrix: Water		Batch: 22J1137		
HEM (Oil and Grease)	ND	5.15	5.15	mg/L	1	11/07/22 09:17	EPA 1664B	PRES, Q-30
NWI-101922-95 (A2J0589-03)				Matrix: Water		Batch: 22K0009		
HEM (Oil and Grease)	ND	4.76	4.76	mg/L	1	11/07/22 09:25	EPA 1664B	
NWE-101922-95 (A2J0589-04)				Matrix: Water		Batch: 22K0009		
HEM (Oil and Grease)	ND	4.72	4.72	mg/L	1	11/07/22 09:25	EPA 1664B	PRES
TWIA-101922-95 (A2J0589-05)				Matrix: Water		Batch: 22K0009		
HEM (Oil and Grease)	ND	4.72	4.72	mg/L	1	11/07/22 09:25	EPA 1664B	
TWE-101922-95 (A2J0589-06)				Matrix: Water		Batch: 22K0009		
HEM (Oil and Grease)	ND	4.90	4.90	mg/L	1	11/07/22 09:25	EPA 1664B	PRES
TPI-101922-95 (A2J0589-07)				Matrix: Water		Batch: 22K0009		
HEM (Oil and Grease)	ND	4.81	4.81	mg/L	1	11/07/22 09:25	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
				Matrix: Water		Batch: 22J0902		
SI-101922-95 (A2J0589-01RE1)								
Total Cyanide	158	12.5	25.0	ug/L	5	10/24/22 12:07	D7511-12	
				Matrix: Water		Batch: 22J0902		
SE-101922-95 (A2J0589-02RE1)								
Total Cyanide	184	12.5	25.0	ug/L	5	10/24/22 12:15	D7511-12	
				Matrix: Water		Batch: 22J0902		
NWI-101922-95 (A2J0589-03RE1)								
Total Cyanide	126	12.5	25.0	ug/L	5	10/24/22 12:17	D7511-12	
				Matrix: Water		Batch: 22J0902		
NWE-101922-95 (A2J0589-04RE1)								
Total Cyanide	128	12.5	25.0	ug/L	5	10/24/22 12:21	D7511-12	
				Matrix: Water		Batch: 22J0902		
TWIA-101922-95 (A2J0589-05RE1)								
Total Cyanide	192	12.5	25.0	ug/L	5	10/24/22 12:23	D7511-12	
				Matrix: Water		Batch: 22J0902		
TWE-101922-95 (A2J0589-06RE1)								
Total Cyanide	132	12.5	25.0	ug/L	5	10/24/22 12:33	D7511-12	
				Matrix: Water		Batch: 22J0902		
TPI-101922-95 (A2J0589-07RE1)								
Total Cyanide	146	12.5	25.0	ug/L	5	10/24/22 12:35	D7511-12	
				Matrix: Water		Batch: 22J0902		
PGAC-101922-95 (A2J0589-08RE1)								
Total Cyanide	123	12.5	25.0	ug/L	5	10/24/22 12:39	D7511-12	
				Matrix: Water		Batch: 22J0902		
GACM1-101922-95 (A2J0589-09RE1)								
Total Cyanide	143	12.5	25.0	ug/L	5	10/24/22 12:41	D7511-12	
				Matrix: Water		Batch: 22J0902		
GACM2-101922-95 (A2J0589-10RE1)								
Total Cyanide	139	12.5	25.0	ug/L	5	10/24/22 12:45	D7511-12	
				Matrix: Water		Batch: 22J0902		
GACF1-101922-95 (A2J0589-11RE1)								
Total Cyanide	135	12.5	25.0	ug/L	5	10/24/22 12:47	D7511-12	
				Matrix: Water		Batch: 22J0902		
GACF2-101922-95 (A2J0589-12RE1)								
Total Cyanide	138	12.5	25.0	ug/L	5	10/24/22 12:49	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
GACF1-101922-95 (A2J0589-11)				Matrix: Water		Batch: 22J0903		
Available Cyanide	21.7	1.00	2.00	ug/L	1	10/24/22 16:50	D6888-09	
GACF2-101922-95 (A2J0589-12)				Matrix: Water		Batch: 22J0903		
Available Cyanide	1.44	1.00	2.00	ug/L	1	10/24/22 16:58	D6888-09	J

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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
GACF1-101922-95 (A2J0589-11)				Matrix: Water		Batch: 22J0818		
Free Cyanide	19.4	2.50	5.00	ug/L	1	10/20/22 17:05	D7237-15A	
GACF2-101922-95 (A2J0589-12)				Matrix: Water		Batch: 22J0818		
Free Cyanide	2.86	2.50	5.00	ug/L	1	10/20/22 17:06	D7237-15A	J

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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: A2J0589 - 12 02 22 1241
---	---	---

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
TPI-101922-95 (A2J0589-07)				Matrix: Water					
Batch: 22J0881									
Total Suspended Solids	447	16.7	16.7	mg/L	1	10/21/22 16:28	SM 2540 D		
GACF1-101922-95 (A2J0589-11)				Matrix: Water					
Batch: 22J0881									
Total Suspended Solids	ND	5.00	5.00	mg/L	1	10/21/22 16:28	SM 2540 D	SL-1	
GACF2-101922-95 (A2J0589-12)				Matrix: Water					
Batch: 22J0881									
Total Suspended Solids	7.00	5.00	5.00	mg/L	1	10/21/22 16:28	SM 2540 D	SL-1	

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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.	Project: Gasco -- Monthly (2022)	
2749 Lockport Road	Project Number: 000029-02-20-2	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2J0589 - 12 02 22 1241

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 22J0855 - EPA 5030C						Water						
Blank (22J0855-BLK1)			Prepared: 10/21/22 08:23 Analyzed: 10/21/22 21:33									
<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	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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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0855 - EPA 5030C						Water						
Blank (22J0855-BLK1)			Prepared: 10/21/22 08:23 Analyzed: 10/21/22 21:33									
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	5.00	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: 108 % Limits: 80-120 % Dilution: 1x

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0855 - EPA 5030C						Water						
Blank (22J0855-BLK1)			Prepared: 10/21/22 08:23 Analyzed: 10/21/22 21:33									
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (22J0855-BS1)			Prepared: 10/21/22 08:23 Analyzed: 10/21/22 20:50									
EPA 8260D												
Acetone	41.2	10.0	20.0	ug/L	1	40.0	---	103	80-120%	---	---	
Acrylonitrile	21.5	1.00	2.00	ug/L	1	20.0	---	108	80-120%	---	---	
Benzene	23.2	0.100	0.200	ug/L	1	20.0	---	116	80-120%	---	---	
Bromobenzene	18.9	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Bromochloromethane	21.7	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Bromodichloromethane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Bromoform	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Bromomethane	19.5	5.00	5.00	ug/L	1	20.0	---	97	80-120%	---	---	
2-Butanone (MEK)	45.4	5.00	10.0	ug/L	1	40.0	---	114	80-120%	---	---	
n-Butylbenzene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
sec-Butylbenzene	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
tert-Butylbenzene	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Carbon disulfide	19.6	5.00	10.0	ug/L	1	20.0	---	98	80-120%	---	---	
Carbon tetrachloride	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Chlorobenzene	19.1	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Chloroethane	20.3	5.00	5.00	ug/L	1	20.0	---	101	80-120%	---	---	
Chloroform	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Chloromethane	19.5	2.50	5.00	ug/L	1	20.0	---	98	80-120%	---	---	
2-Chlorotoluene	19.9	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
4-Chlorotoluene	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Dibromochloromethane	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,2-Dibromo-3-chloropropane	19.0	2.50	5.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.9	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Dibromomethane	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,2-Dichlorobenzene	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,3-Dichlorobenzene	19.9	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,4-Dichlorobenzene	19.1	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Dichlorodifluoromethane	17.7	0.500	1.00	ug/L	1	20.0	---	88	80-120%	---	---	
1,1-Dichloroethane	20.9	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	

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ANALYTICAL REPORT

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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	A2J0589 - 12 02 22 1241

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 22J0855 - EPA 5030C						Water						
LCS (22J0855-BS1)			Prepared: 10/21/22 08:23 Analyzed: 10/21/22 20:50									
1,2-Dichloroethane (EDC)	19.4	0.200	0.400	ug/L	1	20.0	---	97	80-120%	---	---	
1,1-Dichloroethene	21.0	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
cis-1,2-Dichloroethene	20.3	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
trans-1,2-Dichloroethene	20.1	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dichloropropane	20.7	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichloropropane	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
2,2-Dichloropropane	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,1-Dichloropropene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
cis-1,3-Dichloropropene	20.5	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
trans-1,3-Dichloropropene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Ethylbenzene	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Hexachlorobutadiene	15.4	5.00	5.00	ug/L	1	20.0	---	77	80-120%	---	---	Q-55
2-Hexanone	43.7	5.00	10.0	ug/L	1	40.0	---	109	80-120%	---	---	
Isopropylbenzene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
4-Isopropyltoluene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Methylene chloride	20.1	5.00	10.0	ug/L	1	20.0	---	100	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	45.6	5.00	10.0	ug/L	1	40.0	---	114	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.7	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Naphthalene	18.4	1.00	2.00	ug/L	1	20.0	---	92	80-120%	---	---	
n-Propylbenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Styrene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,1,1,2-Tetrachloroethane	19.9	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,1,2,2-Tetrachloroethane	21.3	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Tetrachloroethene (PCE)	18.1	0.200	0.400	ug/L	1	20.0	---	91	80-120%	---	---	
Toluene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	20.0	1.00	2.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2,4-Trichlorobenzene	18.0	1.00	2.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,1,1-Trichloroethane	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,1,2-Trichloroethane	20.3	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Trichloroethene (TCE)	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
Trichlorofluoromethane	19.9	1.00	2.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2,3-Trichloropropane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2,4-Trimethylbenzene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,3,5-Trimethylbenzene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	

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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	A2J0589 - 12 02 22 1241

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 22J0855 - EPA 5030C						Water						
LCS (22J0855-BS1)			Prepared: 10/21/22 08:23 Analyzed: 10/21/22 20:50									
Vinyl chloride	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
m,p-Xylene	43.0	0.500	1.00	ug/L	1	40.0	---	108	80-120%	---	---	
o-Xylene	20.3	0.250	0.500	ug/L	1	20.0	---	101	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>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22J0855-DUP1) Prepared: 10/21/22 08:23 Analyzed: 10/22/22 04:39

QC Source Sample: SI-101922-95 (A2J0589-01)

EPA 8260D

Acetone	ND	25.0	50.0	ug/L	2.5	---	ND	---	---	---	30%
Acrylonitrile	ND	2.50	5.00	ug/L	2.5	---	ND	---	---	---	30%
Benzene	139	0.250	0.500	ug/L	2.5	---	142	---	---	2	30%
Bromobenzene	ND	0.625	1.25	ug/L	2.5	---	ND	---	---	---	30%
Bromochloromethane	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
Bromodichloromethane	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
Bromoform	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
Bromomethane	ND	12.5	12.5	ug/L	2.5	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	12.5	25.0	ug/L	2.5	---	ND	---	---	---	30%
n-Butylbenzene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
sec-Butylbenzene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
tert-Butylbenzene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
Carbon disulfide	ND	12.5	25.0	ug/L	2.5	---	ND	---	---	---	30%
Carbon tetrachloride	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
Chlorobenzene	1.90	0.625	1.25	ug/L	2.5	---	1.88	---	---	1	30%
Chloroethane	ND	12.5	12.5	ug/L	2.5	---	ND	---	---	---	30%
Chloroform	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
Chloromethane	ND	6.25	12.5	ug/L	2.5	---	ND	---	---	---	30%
2-Chlorotoluene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
4-Chlorotoluene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
Dibromochloromethane	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	6.25	12.5	ug/L	2.5	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	0.625	1.25	ug/L	2.5	---	ND	---	---	---	30%
Dibromomethane	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0855 - EPA 5030C						Water						
Duplicate (22J0855-DUP1)			Prepared: 10/21/22 08:23 Analyzed: 10/22/22 04:39									
QC Source Sample: SI-101922-95 (A2J0589-01)												
1,2-Dichlorobenzene	1.20	0.625	1.25	ug/L	2.5	---	1.18	---	---	2	30%	J
1,3-Dichlorobenzene	ND	0.625	1.25	ug/L	2.5	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.625	1.25	ug/L	2.5	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.500	1.00	ug/L	2.5	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.500	1.00	ug/L	2.5	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.500	1.00	ug/L	2.5	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	4.18	0.500	1.00	ug/L	2.5	---	4.35	---	---	4	30%	
trans-1,2-Dichloroethene	ND	0.500	1.00	ug/L	2.5	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.625	1.25	ug/L	2.5	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%	
Ethylbenzene	68.3	0.625	1.25	ug/L	2.5	---	69.0	---	---	1	30%	
Hexachlorobutadiene	ND	12.5	12.5	ug/L	2.5	---	ND	---	---	---	30%	
2-Hexanone	ND	12.5	25.0	ug/L	2.5	---	ND	---	---	---	30%	
Isopropylbenzene	3.70	1.25	2.50	ug/L	2.5	---	3.60	---	---	3	30%	
4-Isopropyltoluene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%	
Methylene chloride	ND	12.5	25.0	ug/L	2.5	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	12.5	25.0	ug/L	2.5	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	3.48	1.25	2.50	ug/L	2.5	---	3.48	---	---	0	30%	
Naphthalene	782	2.50	5.00	ug/L	2.5	---	810	---	---	4	30%	E
n-Propylbenzene	1.48	0.625	1.25	ug/L	2.5	---	1.48	---	---	0	30%	
Styrene	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2.5	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.625	1.25	ug/L	2.5	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.500	1.00	ug/L	2.5	---	ND	---	---	---	30%	
Toluene	2.70	0.625	1.25	ug/L	2.5	---	2.68	---	---	0.9	30%	
1,2,3-Trichlorobenzene	ND	2.50	5.00	ug/L	2.5	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	2.50	5.00	ug/L	2.5	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.500	1.00	ug/L	2.5	---	ND	---	---	---	30%	

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0855 - EPA 5030C						Water						
Duplicate (22J0855-DUP1)			Prepared: 10/21/22 08:23 Analyzed: 10/22/22 04:39									
QC Source Sample: SI-101922-95 (A2J0589-01)												
1,1,2-Trichloroethane	ND	0.625	1.25	ug/L	2.5	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.500	1.00	ug/L	2.5	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	2.50	5.00	ug/L	2.5	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	1.25	2.50	ug/L	2.5	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	24.1	1.25	2.50	ug/L	2.5	---	23.7	---	---	2	30%	
1,3,5-Trimethylbenzene	6.12	1.25	2.50	ug/L	2.5	---	6.02	---	---	2	30%	
Vinyl chloride	11.4	0.500	1.00	ug/L	2.5	---	12.2	---	---	6	30%	
m,p-Xylene	38.1	1.25	2.50	ug/L	2.5	---	38.2	---	---	0.3	30%	
o-Xylene	23.7	0.625	1.25	ug/L	2.5	---	23.5	---	---	0.7	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 112 %</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>99 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (22J0855-MS1)						Prepared: 10/21/22 08:23 Analyzed: 10/22/22 00:23						V-13
QC Source Sample: Non-SDG (A2J0541-02)												
EPA 8260D												
Acetone	2290	100	200	ug/L	10	400	2010	68	39-160%	---	---	
Acrylonitrile	214	10.0	20.0	ug/L	10	200	ND	107	63-135%	---	---	
Benzene	230	1.00	2.00	ug/L	10	200	ND	115	79-120%	---	---	
Bromobenzene	198	2.50	5.00	ug/L	10	200	ND	99	80-120%	---	---	
Bromochloromethane	232	5.00	10.0	ug/L	10	200	ND	116	78-123%	---	---	
Bromodichloromethane	212	5.00	10.0	ug/L	10	200	ND	106	79-125%	---	---	
Bromoform	214	5.00	10.0	ug/L	10	200	ND	107	66-130%	---	---	
Bromomethane	210	50.0	50.0	ug/L	10	200	ND	105	53-141%	---	---	
2-Butanone (MEK)	453	50.0	100	ug/L	10	400	ND	113	56-143%	---	---	
n-Butylbenzene	239	5.00	10.0	ug/L	10	200	ND	119	75-128%	---	---	
sec-Butylbenzene	247	5.00	10.0	ug/L	10	200	ND	124	77-126%	---	---	
tert-Butylbenzene	228	5.00	10.0	ug/L	10	200	ND	114	78-124%	---	---	
Carbon disulfide	229	50.0	100	ug/L	10	200	ND	115	64-133%	---	---	
Carbon tetrachloride	240	5.00	10.0	ug/L	10	200	ND	120	72-136%	---	---	
Chlorobenzene	203	2.50	5.00	ug/L	10	200	ND	102	80-120%	---	---	
Chloroethane	227	50.0	50.0	ug/L	10	200	ND	114	60-138%	---	---	
Chloroform	223	5.00	10.0	ug/L	10	200	ND	111	79-124%	---	---	

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0855 - EPA 5030C						Water						
Matrix Spike (22J0855-MS1)						Prepared: 10/21/22 08:23 Analyzed: 10/22/22 00:23						V-13
QC Source Sample: Non-SDG (A2J0541-02)												
Chloromethane	212	25.0	50.0	ug/L	10	200	ND	106	50-139%	---	---	
2-Chlorotoluene	217	5.00	10.0	ug/L	10	200	ND	108	79-122%	---	---	
4-Chlorotoluene	226	5.00	10.0	ug/L	10	200	ND	113	78-122%	---	---	
Dibromochloromethane	200	5.00	10.0	ug/L	10	200	ND	100	74-126%	---	---	
1,2-Dibromo-3-chloropropane	190	25.0	50.0	ug/L	10	200	ND	95	62-128%	---	---	
1,2-Dibromoethane (EDB)	209	2.50	5.00	ug/L	10	200	ND	105	77-121%	---	---	
Dibromomethane	221	5.00	10.0	ug/L	10	200	ND	110	79-123%	---	---	
1,2-Dichlorobenzene	211	2.50	5.00	ug/L	10	200	ND	105	80-120%	---	---	
1,3-Dichlorobenzene	210	2.50	5.00	ug/L	10	200	ND	105	80-120%	---	---	
1,4-Dichlorobenzene	201	2.50	5.00	ug/L	10	200	ND	101	79-120%	---	---	
Dichlorodifluoromethane	224	5.00	10.0	ug/L	10	200	ND	112	32-152%	---	---	
1,1-Dichloroethane	224	2.00	4.00	ug/L	10	200	ND	112	77-125%	---	---	
1,2-Dichloroethane (EDC)	201	2.00	4.00	ug/L	10	200	ND	101	73-128%	---	---	
1,1-Dichloroethene	243	2.00	4.00	ug/L	10	200	ND	121	71-131%	---	---	
cis-1,2-Dichloroethene	218	2.00	4.00	ug/L	10	200	ND	109	78-123%	---	---	
trans-1,2-Dichloroethene	236	2.00	4.00	ug/L	10	200	ND	118	75-124%	---	---	
1,2-Dichloropropane	219	2.50	5.00	ug/L	10	200	ND	110	78-122%	---	---	
1,3-Dichloropropane	212	5.00	10.0	ug/L	10	200	ND	106	80-120%	---	---	
2,2-Dichloropropane	196	5.00	10.0	ug/L	10	200	ND	98	60-139%	---	---	
1,1-Dichloropropene	238	5.00	10.0	ug/L	10	200	ND	119	79-125%	---	---	
cis-1,3-Dichloropropene	189	5.00	10.0	ug/L	10	200	ND	95	75-124%	---	---	
trans-1,3-Dichloropropene	217	5.00	10.0	ug/L	10	200	ND	108	73-127%	---	---	
Ethylbenzene	222	2.50	5.00	ug/L	10	200	ND	111	79-121%	---	---	
Hexachlorobutadiene	195	50.0	50.0	ug/L	10	200	ND	97	66-134%	---	---	Q-54
2-Hexanone	448	50.0	100	ug/L	10	400	ND	112	57-139%	---	---	
Isopropylbenzene	237	5.00	10.0	ug/L	10	200	ND	119	72-131%	---	---	
4-Isopropyltoluene	235	5.00	10.0	ug/L	10	200	ND	117	77-127%	---	---	
Methylene chloride	212	50.0	100	ug/L	10	200	ND	106	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	460	50.0	100	ug/L	10	400	ND	115	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	217	5.00	10.0	ug/L	10	200	ND	109	71-124%	---	---	
Naphthalene	189	10.0	20.0	ug/L	10	200	ND	94	61-128%	---	---	
n-Propylbenzene	230	2.50	5.00	ug/L	10	200	ND	115	76-126%	---	---	
Styrene	227	5.00	10.0	ug/L	10	200	ND	113	78-123%	---	---	

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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: A2J0589 - 12 02 22 1241
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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 22J0855 - EPA 5030C						Water						
Matrix Spike (22J0855-MS1)						Prepared: 10/21/22 08:23 Analyzed: 10/22/22 00:23						V-13
QC Source Sample: Non-SDG (A2J0541-02)												
1,1,1,2-Tetrachloroethane	207	2.00	4.00	ug/L	10	200	ND	104	78-124%	---	---	
1,1,2,2-Tetrachloroethane	215	2.50	5.00	ug/L	10	200	ND	108	71-121%	---	---	
Tetrachloroethene (PCE)	204	2.00	4.00	ug/L	10	200	ND	102	74-129%	---	---	
Toluene	200	2.50	5.00	ug/L	10	200	ND	100	80-121%	---	---	
1,2,3-Trichlorobenzene	211	10.0	20.0	ug/L	10	200	ND	105	69-129%	---	---	
1,2,4-Trichlorobenzene	192	10.0	20.0	ug/L	10	200	ND	96	69-130%	---	---	
1,1,1-Trichloroethane	228	2.00	4.00	ug/L	10	200	ND	114	74-131%	---	---	
1,1,2-Trichloroethane	211	2.50	5.00	ug/L	10	200	ND	105	80-120%	---	---	
Trichloroethene (TCE)	206	2.00	4.00	ug/L	10	200	ND	103	79-123%	---	---	
Trichlorofluoromethane	256	10.0	20.0	ug/L	10	200	ND	128	65-141%	---	---	
1,2,3-Trichloropropane	204	5.00	10.0	ug/L	10	200	ND	102	73-122%	---	---	
1,2,4-Trimethylbenzene	236	5.00	10.0	ug/L	10	200	ND	118	76-124%	---	---	
1,3,5-Trimethylbenzene	240	5.00	10.0	ug/L	10	200	ND	120	75-124%	---	---	
Vinyl chloride	234	2.00	4.00	ug/L	10	200	ND	117	58-137%	---	---	
m,p-Xylene	467	5.00	10.0	ug/L	10	400	ND	117	80-121%	---	---	
o-Xylene	217	2.50	5.00	ug/L	10	200	ND	109	78-122%	---	---	
<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>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						

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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 22J0919 - EPA 5030C						Water						
Blank (22J0919-BLK1)			Prepared: 10/24/22 10:21 Analyzed: 10/24/22 12:03									
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	---	---	---	---	---	---	

Apex Laboratories

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0919 - EPA 5030C						Water						
Blank (22J0919-BLK1)			Prepared: 10/24/22 10:21			Analyzed: 10/24/22 12:03						
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: 106 % Limits: 80-120 % Dilution: 1x

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0919 - EPA 5030C						Water						
Blank (22J0919-BLK1)						Prepared: 10/24/22 10:21 Analyzed: 10/24/22 12:03						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (22J0919-BS1)						Prepared: 10/24/22 10:21 Analyzed: 10/24/22 11:16						
EPA 8260D												
Acetone	38.8	10.0	20.0	ug/L	1	40.0	---	97	80-120%	---	---	
Acrylonitrile	21.5	1.00	2.00	ug/L	1	20.0	---	107	80-120%	---	---	
Benzene	21.3	0.100	0.200	ug/L	1	20.0	---	106	80-120%	---	---	
Bromobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Bromochloromethane	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Bromodichloromethane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Bromoform	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Bromomethane	19.2	5.00	5.00	ug/L	1	20.0	---	96	80-120%	---	---	
2-Butanone (MEK)	42.5	5.00	10.0	ug/L	1	40.0	---	106	80-120%	---	---	
n-Butylbenzene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
sec-Butylbenzene	22.7	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
tert-Butylbenzene	21.3	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Carbon disulfide	21.1	5.00	10.0	ug/L	1	20.0	---	106	80-120%	---	---	
Carbon tetrachloride	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Chlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Chloroethane	21.8	5.00	5.00	ug/L	1	20.0	---	109	80-120%	---	---	
Chloroform	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Chloromethane	18.3	2.50	5.00	ug/L	1	20.0	---	91	80-120%	---	---	
2-Chlorotoluene	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
4-Chlorotoluene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Dibromochloromethane	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.5	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Dibromomethane	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dichlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,3-Dichlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
1,4-Dichlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Dichlorodifluoromethane	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,1-Dichloroethane	20.7	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0919 - EPA 5030C						Water						
LCS (22J0919-BS1)			Prepared: 10/24/22 10:21 Analyzed: 10/24/22 11:16									
1,2-Dichloroethane (EDC)	19.0	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
1,1-Dichloroethene	22.3	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
cis-1,2-Dichloroethene	20.5	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
trans-1,2-Dichloroethene	21.2	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
1,2-Dichloropropane	20.5	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,3-Dichloropropane	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
2,2-Dichloropropane	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
1,1-Dichloropropene	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
cis-1,3-Dichloropropene	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
trans-1,3-Dichloropropene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Ethylbenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Hexachlorobutadiene	18.4	2.50	5.00	ug/L	1	20.0	---	92	80-120%	---	---	
2-Hexanone	41.0	5.00	10.0	ug/L	1	40.0	---	102	80-120%	---	---	
Isopropylbenzene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
4-Isopropyltoluene	22.1	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Methylene chloride	20.4	5.00	10.0	ug/L	1	20.0	---	102	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	43.3	5.00	10.0	ug/L	1	40.0	---	108	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Naphthalene	18.4	1.00	2.00	ug/L	1	20.0	---	92	80-120%	---	---	
n-Propylbenzene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Styrene	22.1	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
1,1,1,2-Tetrachloroethane	19.5	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Tetrachloroethene (PCE)	18.9	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
Toluene	19.3	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,3-Trichlorobenzene	20.2	1.00	2.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2,4-Trichlorobenzene	19.0	1.00	2.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,1-Trichloroethane	20.4	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
1,1,2-Trichloroethane	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Trichloroethene (TCE)	19.8	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
Trichlorofluoromethane	22.2	1.00	2.00	ug/L	1	20.0	---	111	80-120%	---	---	
1,2,3-Trichloropropane	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,4-Trimethylbenzene	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
1,3,5-Trimethylbenzene	22.6	0.500	1.00	ug/L	1	20.0	---	113	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	A2J0589 - 12 02 22 1241

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 22J0919 - EPA 5030C						Water						
LCS (22J0919-BS1)			Prepared: 10/24/22 10:21			Analyzed: 10/24/22 11:16						
Vinyl chloride	20.5	0.200	0.400	ug/L	1	20.0	---	102	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: 100 %</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>96 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22J0919-DUP1)						Prepared: 10/24/22 10:21 Analyzed: 10/24/22 20:33						
QC Source Sample: Non-SDG (A2J0641-02)												
Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	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	5.00	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

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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: A2J0589 - 12 02 22 1241
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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 22J0919 - EPA 5030C						Water						
Duplicate (22J0919-DUP1)			Prepared: 10/24/22 10:21 Analyzed: 10/24/22 20:33									
QC Source Sample: Non-SDG (A2J0641-02)												
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	---	0.220	---	---	***	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	0.500	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)	1.32	0.200	0.400	ug/L	1	---	1.23	---	---	7	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

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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0919 - EPA 5030C												
Water												
Duplicate (22J0919-DUP1)			Prepared: 10/24/22 10:21 Analyzed: 10/24/22 20:33									
QC Source Sample: Non-SDG (A2J0641-02)												
Trichloroethene (TCE)	0.200	0.200	0.400	ug/L	1	---	0.210	---	---	5	30%	J
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: 108 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (22J0919-MS1)			Prepared: 10/24/22 10:21 Analyzed: 10/24/22 19:08									
QC Source Sample: Non-SDG (A2J0630-02)												
EPA 8260D												
Acetone	2960	50.0	100	ug/L	5	200	3170	-107	39-160%	---	---	E, Q-03
Acrylonitrile	107	5.00	10.0	ug/L	5	100	ND	107	63-135%	---	---	
Benzene	113	0.500	1.00	ug/L	5	100	ND	113	79-120%	---	---	
Bromobenzene	95.8	1.25	2.50	ug/L	5	100	ND	96	80-120%	---	---	
Bromochloromethane	113	2.50	5.00	ug/L	5	100	ND	113	78-123%	---	---	
Bromodichloromethane	103	2.50	5.00	ug/L	5	100	ND	103	79-125%	---	---	
Bromoform	106	2.50	5.00	ug/L	5	100	ND	106	66-130%	---	---	
Bromomethane	102	25.0	25.0	ug/L	5	100	ND	102	53-141%	---	---	
2-Butanone (MEK)	217	25.0	50.0	ug/L	5	200	ND	108	56-143%	---	---	
n-Butylbenzene	114	2.50	5.00	ug/L	5	100	ND	114	75-128%	---	---	
sec-Butylbenzene	119	2.50	5.00	ug/L	5	100	ND	119	77-126%	---	---	
tert-Butylbenzene	111	2.50	5.00	ug/L	5	100	ND	111	78-124%	---	---	
Carbon disulfide	114	25.0	50.0	ug/L	5	100	ND	114	64-133%	---	---	
Carbon tetrachloride	114	2.50	5.00	ug/L	5	100	ND	114	72-136%	---	---	
Chlorobenzene	99.3	1.25	2.50	ug/L	5	100	ND	99	80-120%	---	---	
Chloroethane	119	25.0	25.0	ug/L	5	100	ND	119	60-138%	---	---	
Chloroform	108	2.50	5.00	ug/L	5	100	3.30	105	79-124%	---	---	
Chloromethane	104	12.5	25.0	ug/L	5	100	ND	104	50-139%	---	---	

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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: A2J0589 - 12 02 22 1241
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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 22J0919 - EPA 5030C						Water						
Matrix Spike (22J0919-MS1)			Prepared: 10/24/22 10:21 Analyzed: 10/24/22 19:08									
QC Source Sample: Non-SDG (A2J0630-02)												
2-Chlorotoluene	104	2.50	5.00	ug/L	5	100	ND	104	79-122%	---	---	
4-Chlorotoluene	110	2.50	5.00	ug/L	5	100	ND	110	78-122%	---	---	
Dibromochloromethane	99.6	2.50	5.00	ug/L	5	100	ND	100	74-126%	---	---	
1,2-Dibromo-3-chloropropane	90.0	12.5	25.0	ug/L	5	100	ND	90	62-128%	---	---	
1,2-Dibromoethane (EDB)	101	1.25	2.50	ug/L	5	100	ND	101	77-121%	---	---	
Dibromomethane	107	2.50	5.00	ug/L	5	100	ND	107	79-123%	---	---	
1,2-Dichlorobenzene	102	1.25	2.50	ug/L	5	100	ND	102	80-120%	---	---	
1,3-Dichlorobenzene	104	1.25	2.50	ug/L	5	100	ND	104	80-120%	---	---	
1,4-Dichlorobenzene	98.2	1.25	2.50	ug/L	5	100	ND	98	79-120%	---	---	
Dichlorodifluoromethane	105	2.50	5.00	ug/L	5	100	ND	105	32-152%	---	---	
1,1-Dichloroethane	109	1.00	2.00	ug/L	5	100	ND	109	77-125%	---	---	
1,2-Dichloroethane (EDC)	96.6	1.00	2.00	ug/L	5	100	ND	97	73-128%	---	---	
1,1-Dichloroethene	119	1.00	2.00	ug/L	5	100	ND	119	71-131%	---	---	
cis-1,2-Dichloroethene	107	1.00	2.00	ug/L	5	100	ND	107	78-123%	---	---	
trans-1,2-Dichloroethene	116	1.00	2.00	ug/L	5	100	ND	116	75-124%	---	---	
1,2-Dichloropropane	107	1.25	2.50	ug/L	5	100	ND	107	78-122%	---	---	
1,3-Dichloropropane	103	2.50	5.00	ug/L	5	100	ND	103	80-120%	---	---	
2,2-Dichloropropane	103	2.50	5.00	ug/L	5	100	ND	103	60-139%	---	---	
1,1-Dichloropropene	117	2.50	5.00	ug/L	5	100	ND	117	79-125%	---	---	
cis-1,3-Dichloropropene	91.2	2.50	5.00	ug/L	5	100	ND	91	75-124%	---	---	
trans-1,3-Dichloropropene	106	2.50	5.00	ug/L	5	100	ND	106	73-127%	---	---	
Ethylbenzene	108	1.25	2.50	ug/L	5	100	ND	108	79-121%	---	---	
Hexachlorobutadiene	97.5	12.5	25.0	ug/L	5	100	ND	98	66-134%	---	---	
2-Hexanone	208	25.0	50.0	ug/L	5	200	ND	104	57-139%	---	---	
Isopropylbenzene	117	2.50	5.00	ug/L	5	100	ND	117	72-131%	---	---	
4-Isopropyltoluene	113	2.50	5.00	ug/L	5	100	ND	113	77-127%	---	---	
Methylene chloride	104	25.0	50.0	ug/L	5	100	ND	104	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	215	25.0	50.0	ug/L	5	200	ND	107	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	107	2.50	5.00	ug/L	5	100	ND	107	71-124%	---	---	
Naphthalene	91.5	5.00	10.0	ug/L	5	100	ND	92	61-128%	---	---	
n-Propylbenzene	111	1.25	2.50	ug/L	5	100	ND	111	76-126%	---	---	
Styrene	108	2.50	5.00	ug/L	5	100	ND	108	78-123%	---	---	
1,1,1,2-Tetrachloroethane	99.6	1.00	2.00	ug/L	5	100	ND	100	78-124%	---	---	

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0919 - EPA 5030C						Water						
Matrix Spike (22J0919-MS1)						Prepared: 10/24/22 10:21 Analyzed: 10/24/22 19:08						
QC Source Sample: Non-SDG (A2J0630-02)												
1,1,2,2-Tetrachloroethane	103	1.25	2.50	ug/L	5	100	ND	103	71-121%	---	---	
Tetrachloroethene (PCE)	102	1.00	2.00	ug/L	5	100	ND	102	74-129%	---	---	
Toluene	98.0	2.50	5.00	ug/L	5	100	ND	98	80-121%	---	---	
1,2,3-Trichlorobenzene	103	5.00	10.0	ug/L	5	100	ND	103	69-129%	---	---	
1,2,4-Trichlorobenzene	94.7	5.00	10.0	ug/L	5	100	ND	95	69-130%	---	---	
1,1,1-Trichloroethane	110	1.00	2.00	ug/L	5	100	ND	110	74-131%	---	---	
1,1,2-Trichloroethane	101	1.25	2.50	ug/L	5	100	ND	101	80-120%	---	---	
Trichloroethene (TCE)	102	1.00	2.00	ug/L	5	100	ND	102	79-123%	---	---	
Trichlorofluoromethane	123	5.00	10.0	ug/L	5	100	ND	123	65-141%	---	---	
1,2,3-Trichloropropane	93.3	2.50	5.00	ug/L	5	100	ND	93	73-122%	---	---	
1,2,4-Trimethylbenzene	112	2.50	5.00	ug/L	5	100	ND	112	76-124%	---	---	
1,3,5-Trimethylbenzene	115	2.50	5.00	ug/L	5	100	ND	115	75-124%	---	---	
Vinyl chloride	115	1.00	2.00	ug/L	5	100	ND	115	58-137%	---	---	
m,p-Xylene	227	2.50	5.00	ug/L	5	200	ND	113	80-121%	---	---	
o-Xylene	105	1.25	2.50	ug/L	5	100	ND	105	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>95 %</i>		<i>80-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



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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	A2J0589 - 12 02 22 1241

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 22J0956 - EPA 3510C (Acid Extraction)						Water						
Blank (22J0956-BLK1)						Prepared: 10/25/22 06:40 Analyzed: 10/25/22 13:33						
<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: 93 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>102 %</i>		<i>50-134 %</i>		<i>"</i>						

LCS (22J0956-BS1)						Prepared: 10/25/22 06:40 Analyzed: 10/25/22 13:58						
<u>EPA 8270E SIM</u>												
Acenaphthene	7.39	0.0200	0.0400	ug/L	1	8.00	---	92	47-122%	---	---	
Acenaphthylene	7.40	0.0200	0.0400	ug/L	1	8.00	---	93	41-130%	---	---	
Anthracene	7.91	0.0200	0.0400	ug/L	1	8.00	---	99	57-123%	---	---	
Benz(a)anthracene	7.67	0.0200	0.0400	ug/L	1	8.00	---	96	58-125%	---	---	
Benzo(a)pyrene	8.09	0.0200	0.0400	ug/L	1	8.00	---	101	54-128%	---	---	
Benzo(b)fluoranthene	8.18	0.0200	0.0400	ug/L	1	8.00	---	102	53-131%	---	---	
Benzo(k)fluoranthene	8.30	0.0200	0.0400	ug/L	1	8.00	---	104	57-129%	---	---	
Benzo(g,h,i)perylene	7.90	0.0200	0.0400	ug/L	1	8.00	---	99	50-134%	---	---	
Chrysene	8.00	0.0200	0.0400	ug/L	1	8.00	---	100	59-123%	---	---	

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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 22J0956 - EPA 3510C (Acid Extraction)						Water						
LCS (22J0956-BS1)				Prepared: 10/25/22 06:40 Analyzed: 10/25/22 13:58								
Dibenz(a,h)anthracene	8.66	0.0200	0.0400	ug/L	1	8.00	---	108	51-134%	---	---	
Fluoranthene	8.01	0.0200	0.0400	ug/L	1	8.00	---	100	57-128%	---	---	
Fluorene	7.38	0.0200	0.0400	ug/L	1	8.00	---	92	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	7.94	0.0200	0.0400	ug/L	1	8.00	---	99	52-134%	---	---	
1-Methylnaphthalene	6.90	0.0400	0.0800	ug/L	1	8.00	---	86	41-120%	---	---	
2-Methylnaphthalene	6.77	0.0400	0.0800	ug/L	1	8.00	---	85	40-121%	---	---	
Naphthalene	6.81	0.0400	0.0800	ug/L	1	8.00	---	85	40-121%	---	---	
Phenanthrene	7.74	0.0200	0.0400	ug/L	1	8.00	---	97	59-120%	---	---	
Pyrene	8.10	0.0200	0.0400	ug/L	1	8.00	---	101	57-126%	---	---	
Dibenzofuran	7.33	0.0200	0.0400	ug/L	1	8.00	---	92	53-120%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>91 %</i>		<i>50-134 %</i>		<i>"</i>						

LCS Dup (22J0956-BSD1)				Prepared: 10/25/22 06:40 Analyzed: 10/25/22 14:24							Q-19	
EPA 8270E SIM												
Acenaphthene	7.15	0.0200	0.0400	ug/L	1	8.00	---	89	47-122%	3	30%	
Acenaphthylene	7.19	0.0200	0.0400	ug/L	1	8.00	---	90	41-130%	3	30%	
Anthracene	7.47	0.0200	0.0400	ug/L	1	8.00	---	93	57-123%	6	30%	
Benz(a)anthracene	7.56	0.0200	0.0400	ug/L	1	8.00	---	95	58-125%	1	30%	
Benzo(a)pyrene	7.88	0.0200	0.0400	ug/L	1	8.00	---	98	54-128%	3	30%	
Benzo(b)fluoranthene	8.01	0.0200	0.0400	ug/L	1	8.00	---	100	53-131%	2	30%	
Benzo(k)fluoranthene	8.15	0.0200	0.0400	ug/L	1	8.00	---	102	57-129%	2	30%	
Benzo(g,h,i)perylene	7.71	0.0200	0.0400	ug/L	1	8.00	---	96	50-134%	2	30%	
Chrysene	7.79	0.0200	0.0400	ug/L	1	8.00	---	97	59-123%	3	30%	
Dibenz(a,h)anthracene	8.47	0.0200	0.0400	ug/L	1	8.00	---	106	51-134%	2	30%	
Fluoranthene	7.17	0.0200	0.0400	ug/L	1	8.00	---	90	57-128%	11	30%	
Fluorene	7.06	0.0200	0.0400	ug/L	1	8.00	---	88	52-124%	4	30%	
Indeno(1,2,3-cd)pyrene	7.77	0.0200	0.0400	ug/L	1	8.00	---	97	52-134%	2	30%	
1-Methylnaphthalene	6.48	0.0400	0.0800	ug/L	1	8.00	---	81	41-120%	6	30%	
2-Methylnaphthalene	6.34	0.0400	0.0800	ug/L	1	8.00	---	79	40-121%	6	30%	
Naphthalene	6.55	0.0400	0.0800	ug/L	1	8.00	---	82	40-121%	4	30%	
Phenanthrene	7.33	0.0200	0.0400	ug/L	1	8.00	---	92	59-120%	5	30%	
Pyrene	7.09	0.0200	0.0400	ug/L	1	8.00	---	89	57-126%	13	30%	
Dibenzofuran	7.07	0.0200	0.0400	ug/L	1	8.00	---	88	53-120%	4	30%	

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0956 - EPA 3510C (Acid Extraction)						Water						
LCS Dup (22J0956-BSD1)		Prepared: 10/25/22 06:40						Analyzed: 10/25/22 14:24				Q-19
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 88 %</i>	<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>							
<i>p-Terphenyl-d14 (Surr)</i>		<i>90 %</i>	<i>50-134 %</i>									

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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 22J0939 - 1631E Mercury (H2O)						Water						
Blank (22J0939-BLK1)			Prepared: 10/24/22 13:15 Analyzed: 10/27/22 13:43									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22J0939-BLK2)			Prepared: 10/24/22 13:15 Analyzed: 10/27/22 13:48									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22J0939-BLK3)			Prepared: 10/24/22 13:15 Analyzed: 10/27/22 13:53									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
LCS (22J0939-BS1)			Prepared: 10/24/22 13:15 Analyzed: 10/27/22 14:08									
<u>EPA 1631E-LL</u>												
Mercury	0.00809	0.000500	0.00100	ug/L	1	0.00800	---	101	80-120%	---	---	
Matrix Spike (22J0939-MS1)			Prepared: 10/24/22 13:15 Analyzed: 10/27/22 14:18									
<u>QC Source Sample: SI-101922-95 (A2J0589-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00527	0.000500	0.00100	ug/L	1	0.00800	ND	66	75-125%	---	---	Q-02
Matrix Spike Dup (22J0939-MSD1)			Prepared: 10/24/22 13:15 Analyzed: 10/27/22 14:23									
<u>QC Source Sample: SI-101922-95 (A2J0589-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00578	0.000500	0.00100	ug/L	1	0.00800	ND	72	75-125%	9	24%	Q-02

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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 22J1121 - 1631E Mercury (H2O)						Water						
Blank (22J1121-BLK1)			Prepared: 10/27/22 17:34 Analyzed: 10/28/22 13:19									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22J1121-BLK2)			Prepared: 10/27/22 17:34 Analyzed: 10/28/22 13:24									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22J1121-BLK3)			Prepared: 10/27/22 17:34 Analyzed: 10/28/22 13:29									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
LCS (22J1121-BS1)			Prepared: 10/27/22 17:34 Analyzed: 10/28/22 13:34									
<u>EPA 1631E-LL</u>												
Mercury	0.00785	0.000500	0.00100	ug/L	1	0.00800	---	98	80-120%	---	---	
Matrix Spike (22J1121-MS1)			Prepared: 10/27/22 17:34 Analyzed: 10/28/22 13:44									
<u>QC Source Sample: GACM2-101922-95 (A2J0589-10RE1)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.0360	0.00100	0.00200	ug/L	1	0.0160	0.0198	101	75-125%	---	---	
Matrix Spike Dup (22J1121-MSD1)			Prepared: 10/27/22 17:34 Analyzed: 10/28/22 13:49									
<u>QC Source Sample: GACM2-101922-95 (A2J0589-10RE1)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.0374	0.00100	0.00200	ug/L	1	0.0160	0.0198	110	75-125%	4	24%	

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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 22J1032 - EPA 3015A						Water						
Blank (22J1032-BLK1)						Prepared: 10/26/22 10:56 Analyzed: 10/27/22 19:07						
<u>EPA 6020B</u>												
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.110	0.200	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Blank (22J1032-BLK2)						Prepared: 10/26/22 10:56 Analyzed: 11/01/22 01:22						
<u>EPA 6020B</u>												
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	Q-16
LCS (22J1032-BS1)						Prepared: 10/26/22 10:56 Analyzed: 10/27/22 19:13						
<u>EPA 6020B</u>												
Arsenic	56.7	0.500	1.00	ug/L	1	55.6	---	102	80-120%	---	---	
Barium	59.0	1.00	2.00	ug/L	1	55.6	---	106	80-120%	---	---	
Cadmium	57.2	0.100	0.200	ug/L	1	55.6	---	103	80-120%	---	---	
Chromium	57.1	1.00	2.00	ug/L	1	55.6	---	103	80-120%	---	---	
Copper	58.2	1.00	2.00	ug/L	1	55.6	---	105	80-120%	---	---	
Lead	56.4	0.110	0.200	ug/L	1	55.6	---	102	80-120%	---	---	
Mercury	1.07	0.0400	0.0800	ug/L	1	1.11	---	96	80-120%	---	---	
Selenium	27.2	0.500	1.00	ug/L	1	27.8	---	98	80-120%	---	---	
Silver	29.8	0.100	0.200	ug/L	1	27.8	---	107	80-120%	---	---	
LCS (22J1032-BS3)						Prepared: 10/26/22 10:56 Analyzed: 11/02/22 18:12						
<u>EPA 6020B</u>												
Iron	2750	25.0	50.0	ug/L	1	2780	---	99	80-120%	---	---	Q-16
Duplicate (22J1032-DUP1)						Prepared: 10/26/22 10:56 Analyzed: 10/27/22 19:38						
<u>QC Source Sample: SI-101922-95 (A2J0589-01)</u>												

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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 22J1032 - EPA 3015A						Water						
Duplicate (22J1032-DUP1)						Prepared: 10/26/22 10:56 Analyzed: 10/27/22 19:38						
<u>QC Source Sample: SI-101922-95 (A2J0589-01)</u>												
<u>EPA 6020B</u>												
Arsenic	5.95	2.50	5.00	ug/L	5	---	5.95	---	---	0.1	20%	
Barium	89.3	5.00	10.0	ug/L	5	---	87.9	---	---	2	20%	
Cadmium	ND	0.500	1.00	ug/L	5	---	ND	---	---	---	20%	
Chromium	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	20%	
Copper	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	20%	
Lead	ND	0.550	1.00	ug/L	5	---	ND	---	---	---	20%	
Mercury	ND	0.200	0.400	ug/L	5	---	ND	---	---	---	20%	
Selenium	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	20%	
Silver	ND	0.500	1.00	ug/L	5	---	ND	---	---	---	20%	
Duplicate (22J1032-DUP3)						Prepared: 10/26/22 10:56 Analyzed: 11/02/22 18:23						
<u>QC Source Sample: SI-101922-95 (A2J0589-01RE2)</u>												
<u>EPA 6020B</u>												
Iron	34600	250	500	ug/L	10	---	34700	---	---	0.3	20%	Q-16
Matrix Spike (22J1032-MS1)						Prepared: 10/26/22 10:56 Analyzed: 10/27/22 19:44						
<u>QC Source Sample: SI-101922-95 (A2J0589-01)</u>												
<u>EPA 6020B</u>												
Arsenic	60.9	2.50	5.00	ug/L	5	55.6	5.95	99	75-125%	---	---	
Barium	143	5.00	10.0	ug/L	5	55.6	87.9	99	75-125%	---	---	
Cadmium	56.1	0.500	1.00	ug/L	5	55.6	ND	101	75-125%	---	---	
Chromium	54.6	5.00	10.0	ug/L	5	55.6	ND	98	75-125%	---	---	
Copper	56.2	5.00	10.0	ug/L	5	55.6	ND	101	75-125%	---	---	
Lead	55.2	0.550	1.00	ug/L	5	55.6	ND	99	75-125%	---	---	
Mercury	1.10	0.200	0.400	ug/L	5	1.11	ND	99	75-125%	---	---	
Selenium	28.4	2.50	5.00	ug/L	5	27.8	ND	102	75-125%	---	---	
Silver	30.3	0.500	1.00	ug/L	5	27.8	ND	109	75-125%	---	---	
Matrix Spike (22J1032-MS3)						Prepared: 10/26/22 10:56 Analyzed: 11/02/22 18:29						
<u>QC Source Sample: SI-101922-95 (A2J0589-01RE2)</u>												
<u>EPA 6020B</u>												

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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 22J1032 - EPA 3015A						Water						
Matrix Spike (22J1032-MS3)						Prepared: 10/26/22 10:56 Analyzed: 11/02/22 18:29						
QC Source Sample: SI-101922-95 (A2J0589-01RE2)												
Iron	37300	250	500	ug/L	10	2780	34700	92	75-125%	---	---	Q-16

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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 22J1137 - EPA 1664B						Water						
Blank (22J1137-BLK1)			Prepared: 10/28/22 08:08 Analyzed: 11/07/22 09:17									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	ND	4.55	4.55	mg/L	1	---	---	---	---	---	---	Q-30
LCS (22J1137-BS1)			Prepared: 10/28/22 08:08 Analyzed: 11/07/22 09:17									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	25.6			mg/L	1	40.0	---	64	78-114%	---	---	Q-30
Matrix Spike (22J1137-MS1)			Prepared: 10/28/22 08:08 Analyzed: 11/07/22 09:17									
<u>QC Source Sample: Non-SDG (A2J0584-01)</u>												
<u>EPA 1664B</u>												
HEM (Oil and Grease)	89.3			mg/L	1	38.5	53.0	94	78-114%	---	---	

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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 22K0009 - EPA 1664B						Water						
Blank (22K0009-BLK1)			Prepared: 11/01/22 08:38 Analyzed: 11/07/22 09:25									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	ND	4.55	4.55	mg/L	1	---	---	---	---	---	---	
LCS (22K0009-BS1)			Prepared: 11/01/22 08:38 Analyzed: 11/07/22 09:25									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	34.7			mg/L	1	40.0	---	87	78-114%	---	---	
Matrix Spike (22K0009-MS1)			Prepared: 11/01/22 08:38 Analyzed: 11/07/22 09:25									
<u>QC Source Sample: Non-SDG (A2J0625-01)</u>												
<u>EPA 1664B</u>												
HEM (Oil and Grease)	26.6			mg/L	1	40.0	ND	66	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 22J0902 - ASTM D7511-12 (W)						Water						
Blank (22J0902-BLK1)			Prepared: 10/24/22 08:52 Analyzed: 10/24/22 12:01									
<u>D7511-12</u>												
Total Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
LCS (22J0902-BS1)			Prepared: 10/24/22 08:52 Analyzed: 10/24/22 12:03									
<u>D7511-12</u>												
Total Cyanide	26.6	2.50	5.00	ug/L	1	25.0	---	107	84-116%	---	---	
Matrix Spike (22J0902-MS1)			Prepared: 10/24/22 08:52 Analyzed: 10/24/22 12:09									
<u>QC Source Sample: SI-101922-95 (A2J0589-01RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	290	12.5	25.0	ug/L	5	125	158	106	64-136%	---	---	E
Matrix Spike (22J0902-MS4)			Prepared: 10/24/22 08:52 Analyzed: 10/24/22 15:29									
<u>QC Source Sample: Non-SDG (A2J0666-01RE3)</u>												
<u>D7511-12</u>												
Total Cyanide	331	25.0	50.0	ug/L	10	250	75.2	103	64-136%	---	---	Q-16
Matrix Spike Dup (22J0902-MSD1)			Prepared: 10/24/22 08:52 Analyzed: 10/24/22 12:11									
<u>QC Source Sample: SI-101922-95 (A2J0589-01RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	282	12.5	25.0	ug/L	5	125	158	100	64-136%	3	47%	E
Matrix Spike Dup (22J0902-MSD4)			Prepared: 10/24/22 08:52 Analyzed: 10/24/22 15:31									
<u>QC Source Sample: Non-SDG (A2J0666-01RE3)</u>												
<u>D7511-12</u>												
Total Cyanide	339	25.0	50.0	ug/L	10	250	75.2	105	64-136%	2	47%	Q-16

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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 22J0903 - Method Prep: Aq						Water						
Blank (22J0903-BLK1)						Prepared: 10/24/22 08:54 Analyzed: 10/24/22 16:35						
<u>D6888-09</u>												
Available Cyanide	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
LCS (22J0903-BS1)						Prepared: 10/24/22 08:54 Analyzed: 10/24/22 16:37						
<u>D6888-09</u>												
Available Cyanide	25.1	1.00	2.00	ug/L	1	25.0	---	101	90-117%	---	---	
Matrix Spike (22J0903-MS1)						Prepared: 10/24/22 08:54 Analyzed: 10/24/22 16:59						
<u>QC Source Sample: GACF2-101922-95 (A2J0589-12)</u>												
<u>D6888-09</u>												
Available Cyanide	25.9	1.01	2.01	ug/L	1	25.1	1.44	97	82-130%	---	---	
Matrix Spike Dup (22J0903-MSD1)						Prepared: 10/24/22 08:54 Analyzed: 10/24/22 17:01						
<u>QC Source Sample: GACF2-101922-95 (A2J0589-12)</u>												
<u>D6888-09</u>												
Available Cyanide	27.0	1.01	2.01	ug/L	1	25.1	1.44	102	82-130%	4	11%	

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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: A2J0589 - 12 02 22 1241
---	---	---

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 22J0818 - Method Prep: Aq						Water						
Blank (22J0818-BLK1)			Prepared: 10/20/22 10:26 Analyzed: 10/20/22 17:00									
<u>D7237-15A</u>												
Free Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
LCS (22J0818-BS1)			Prepared: 10/20/22 10:26 Analyzed: 10/20/22 17:02									
<u>D7237-15A</u>												
Free Cyanide	25.5	2.50	5.00	ug/L	1	25.0	---	102	90-118%	---	---	
Matrix Spike (22J0818-MS1)			Prepared: 10/20/22 10:26 Analyzed: 10/20/22 17:14									
<u>QC Source Sample: Non-SDG (A2J0531-04)</u>												
<u>D7237-15A</u>												
Free Cyanide	26.7	2.51	5.03	ug/L	1	25.1	ND	106	79-121%	---	---	
Matrix Spike (22J0818-MS2)			Prepared: 10/20/22 10:26 Analyzed: 10/20/22 17:32									
<u>QC Source Sample: Non-SDG (A2J0605-06)</u>												
<u>D7237-15A</u>												
Free Cyanide	41.3	2.51	5.03	ug/L	1	25.1	14.9	105	79-121%	---	---	
Matrix Spike Dup (22J0818-MSD1)			Prepared: 10/20/22 10:26 Analyzed: 10/20/22 17:15									
<u>QC Source Sample: Non-SDG (A2J0531-04)</u>												
Free Cyanide	27.1	2.51	5.03	ug/L	1	25.1	ND	108	79-121%	2	13%	
Matrix Spike Dup (22J0818-MSD2)			Prepared: 10/20/22 10:26 Analyzed: 10/20/22 17:33									
<u>QC Source Sample: Non-SDG (A2J0605-06)</u>												
Free Cyanide	42.2	2.51	5.03	ug/L	1	25.1	14.9	108	79-121%	2	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 22J0881 - Total Suspended Solids						Water						
Blank (22J0881-BLK1)						Prepared: 10/21/22 16:28 Analyzed: 10/21/22 16:28						
<u>SM 2540 D</u>												
Total Suspended Solids	ND	5.00	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (22J0881-DUP1)						Prepared: 10/21/22 16:28 Analyzed: 10/21/22 16:28						
<u>QC Source Sample: Non-SDG (A2J0546-01)</u>												
Total Suspended Solids	232	10.0	10.0	mg/L	1	---	252	---	---	8.26	10%	
Duplicate (22J0881-DUP2)						Prepared: 10/21/22 16:28 Analyzed: 10/21/22 16:28						
<u>QC Source Sample: Non-SDG (A2J0655-01)</u>												
Total Suspended Solids	423	16.7	16.7	mg/L	1	---	410	---	---	3.20	10%	
Reference (22J0881-SRM1)						Prepared: 10/21/22 16:28 Analyzed: 10/21/22 16:28						
<u>SM 2540 D</u>												
Total Suspended Solids	856			mg/L	1	828	103	85-115%		---	---	

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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: 22J0855</u>							
A2J0589-01	Water	EPA 8260D	10/19/22 03:45	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-02	Water	EPA 8260D	10/19/22 03:50	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-03	Water	EPA 8260D	10/19/22 03:20	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-04	Water	EPA 8260D	10/19/22 03:40	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-05	Water	EPA 8260D	10/19/22 03:55	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-06	Water	EPA 8260D	10/19/22 04:10	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-07	Water	EPA 8260D	10/19/22 01:00	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-09	Water	EPA 8260D	10/19/22 00:15	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-10	Water	EPA 8260D	10/19/22 01:45	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-11	Water	EPA 8260D	10/19/22 00:40	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
A2J0589-12	Water	EPA 8260D	10/19/22 02:00	10/21/22 08:58	5mL/5mL	5mL/5mL	1.00
<u>Batch: 22J0919</u>							
A2J0589-05RE1	Water	EPA 8260D	10/19/22 03:55	10/24/22 10:21	5mL/5mL	5mL/5mL	1.00
A2J0589-08RE1	Water	EPA 8260D	10/19/22 01:30	10/24/22 10:21	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: 22J0956</u>							
A2J0589-01	Water	EPA 8270E SIM	10/19/22 03:45	10/25/22 06:40	920mL/2mL	1000mL/2mL	1.09
A2J0589-02	Water	EPA 8270E SIM	10/19/22 03:50	10/25/22 06:40	960mL/2mL	1000mL/2mL	1.04
A2J0589-03	Water	EPA 8270E SIM	10/19/22 03:20	10/25/22 06:40	1000mL/2mL	1000mL/2mL	1.00
A2J0589-04	Water	EPA 8270E SIM	10/19/22 03:40	10/25/22 06:40	990mL/2mL	1000mL/2mL	1.01
A2J0589-05	Water	EPA 8270E SIM	10/19/22 03:55	10/25/22 06:40	1000mL/2mL	1000mL/2mL	1.00
A2J0589-06	Water	EPA 8270E SIM	10/19/22 04:10	10/25/22 06:40	870mL/2mL	1000mL/2mL	1.15
A2J0589-07	Water	EPA 8270E SIM	10/19/22 01:00	10/25/22 06:40	980mL/2mL	1000mL/2mL	1.02
A2J0589-08	Water	EPA 8270E SIM	10/19/22 01:30	10/25/22 06:40	1060mL/2mL	1000mL/2mL	0.94
A2J0589-09	Water	EPA 8270E SIM	10/19/22 00:15	10/25/22 06:40	1050mL/2mL	1000mL/2mL	0.95
A2J0589-10	Water	EPA 8270E SIM	10/19/22 01:45	10/25/22 06:40	1060mL/2mL	1000mL/2mL	0.94
A2J0589-11	Water	EPA 8270E SIM	10/19/22 00:40	10/25/22 06:40	1050mL/2mL	1000mL/2mL	0.95
A2J0589-12	Water	EPA 8270E SIM	10/19/22 02:00	10/25/22 06:40	1060mL/2mL	1000mL/2mL	0.94

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

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SAMPLE PREPARATION INFORMATION

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

Prep: 1631E Mercury (H2O)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J0939</u>							
A2J0589-01	Water	EPA 1631E-LL	10/19/22 03:45	10/24/22 13:15	20mL/20mL	20mL/20mL	1.00
A2J0589-03	Water	EPA 1631E-LL	10/19/22 03:20	10/24/22 13:15	20mL/20mL	20mL/20mL	1.00
A2J0589-05	Water	EPA 1631E-LL	10/19/22 03:55	10/24/22 13:15	20mL/20mL	20mL/20mL	1.00
A2J0589-07	Water	EPA 1631E-LL	10/19/22 01:00	10/24/22 13:15	20mL/20mL	20mL/20mL	1.00
A2J0589-08	Water	EPA 1631E-LL	10/19/22 01:30	10/24/22 13:15	20mL/20mL	20mL/20mL	1.00
A2J0589-09	Water	EPA 1631E-LL	10/19/22 00:15	10/24/22 13:15	20mL/20mL	20mL/20mL	1.00
A2J0589-10	Water	EPA 1631E-LL	10/19/22 01:45	10/24/22 13:15	20mL/20mL	20mL/20mL	1.00
A2J0589-11	Water	EPA 1631E-LL	10/19/22 00:40	10/24/22 13:15	20mL/20mL	20mL/20mL	1.00
A2J0589-12	Water	EPA 1631E-LL	10/19/22 02:00	10/24/22 13:15	20mL/20mL	20mL/20mL	1.00
<u>Batch: 22J1121</u>							
A2J0589-10RE1	Water	EPA 1631E-LL	10/19/22 01:45	10/24/22 13:15	10mL/20mL	20mL/20mL	2.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J1032</u>							
A2J0589-01	Water	EPA 6020B	10/19/22 03:45	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-01RE2	Water	EPA 6020B	10/19/22 03:45	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-02	Water	EPA 6020B	10/19/22 03:50	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-02RE1	Water	EPA 6020B	10/19/22 03:50	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-03	Water	EPA 6020B	10/19/22 03:20	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-03RE1	Water	EPA 6020B	10/19/22 03:20	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-04	Water	EPA 6020B	10/19/22 03:40	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-04RE1	Water	EPA 6020B	10/19/22 03:40	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-05	Water	EPA 6020B	10/19/22 03:55	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-05RE1	Water	EPA 6020B	10/19/22 03:55	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-06	Water	EPA 6020B	10/19/22 04:10	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-06RE1	Water	EPA 6020B	10/19/22 04:10	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-07	Water	EPA 6020B	10/19/22 01:00	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-07RE1	Water	EPA 6020B	10/19/22 01:00	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-08	Water	EPA 6020B	10/19/22 01:30	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-09	Water	EPA 6020B	10/19/22 00:15	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-10	Water	EPA 6020B	10/19/22 01:45	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-11	Water	EPA 6020B	10/19/22 00:40	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-11RE1	Water	EPA 6020B	10/19/22 00:40	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00

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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
A2J0589-12	Water	EPA 6020B	10/19/22 02:00	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00
A2J0589-12RE1	Water	EPA 6020B	10/19/22 02:00	10/26/22 10:56	45mL/50mL	45mL/50mL	1.00

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

Prep: EPA 1664B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J1137</u>							
A2J0589-01	Water	EPA 1664B	10/19/22 03:45	10/28/22 08:08			NA
A2J0589-02	Water	EPA 1664B	10/19/22 03:50	10/28/22 08:08			NA
<u>Batch: 22K0009</u>							
A2J0589-03	Water	EPA 1664B	10/19/22 03:20	11/01/22 08:38			NA
A2J0589-04	Water	EPA 1664B	10/19/22 03:40	11/01/22 08:38			NA
A2J0589-05	Water	EPA 1664B	10/19/22 03:55	11/01/22 08:38			NA
A2J0589-06	Water	EPA 1664B	10/19/22 04:10	11/01/22 08:38			NA
A2J0589-07	Water	EPA 1664B	10/19/22 01:00	11/01/22 08:38			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
<u>Batch: 22J0902</u>							
A2J0589-01RE1	Water	D7511-12	10/19/22 03:45	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-02RE1	Water	D7511-12	10/19/22 03:50	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-03RE1	Water	D7511-12	10/19/22 03:20	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-04RE1	Water	D7511-12	10/19/22 03:40	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-05RE1	Water	D7511-12	10/19/22 03:55	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-06RE1	Water	D7511-12	10/19/22 04:10	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-07RE1	Water	D7511-12	10/19/22 01:00	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-08RE1	Water	D7511-12	10/19/22 01:30	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-09RE1	Water	D7511-12	10/19/22 00:15	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-10RE1	Water	D7511-12	10/19/22 01:45	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-11RE1	Water	D7511-12	10/19/22 00:40	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00
A2J0589-12RE1	Water	D7511-12	10/19/22 02:00	10/24/22 08:52	10mL/10mL	5mL/5mL	1.00

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

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SAMPLE PREPARATION INFORMATION

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

<u>Prep: Method Prep: Ag</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J0903</u>							
A2J0589-11	Water	D6888-09	10/19/22 00:40	10/24/22 08:54	5mL/5mL	5mL/5mL	1.00
A2J0589-12	Water	D6888-09	10/19/22 02:00	10/24/22 08:54	5mL/5mL	5mL/5mL	1.00

Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection

<u>Prep: Method Prep: Ag</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J0818</u>							
A2J0589-11	Water	D7237-15A	10/19/22 00:40	10/20/22 10:26	5mL/5mL	5mL/5mL	1.00
A2J0589-12	Water	D7237-15A	10/19/22 02:00	10/20/22 10:26	5mL/5mL	5mL/5mL	1.00

Solid and Moisture Determinations

<u>Prep: Total Suspended Solids</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J0881</u>							
A2J0589-07	Water	SM 2540 D	10/19/22 01:00	10/21/22 16:28			NA
A2J0589-11	Water	SM 2540 D	10/19/22 00:40	10/21/22 16:28			NA
A2J0589-12	Water	SM 2540 D	10/19/22 02:00	10/21/22 16:28			NA

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Project Number: 000029-02-20-2
Project Manager: Chip Byrd

Report ID:
A2J0589 - 12 02 22 1241

QUALIFIER DEFINITIONS

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

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- E Estimated Value. The result is above the calibration range of the instrument.
- 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-02 Spike recovery is outside of established control limits due to matrix interference.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- 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-30 Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- 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-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.
- 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.
- RR-2 Not Reported - Needs Dilution. Sample will be Rerun.
- S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- 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.
- V-13 Reporting levels raised due to dilution necessary for analysis due to sample foaming in sparge vessel.

Apex Laboratories

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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: A2J0589 - 12 02 22 1241
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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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ORELAP ID: OR100062

Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Monthly (2022)), and Report ID (A2J0589 - 12 02 22 1241)

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

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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 (A2J0589 - 12 02 22 1241).

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

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

Project: Gasco -- Monthly (2022)
 Project Number: 000029-02-20
 Project Manager: Chip Byrd

Report ID:
A2J0589 - 12 02 22 1241

CHAIN OF CUSTODY

APEX LABS

Lab # A250589 of _____

2232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333
 Company: Sevenson Environmental Services, Inc.
 Address: 2749 Lockport Road, Niagara Falls, NY 14305
 Sampled by: Nathaniel Savage, Pete Snyper

Project Mgr. Chip Byrd Project Name: Gasco -- Monthly Project # _____
 Phone: (716) 883-2754 E-mail: wbyrd@sevenson.com Fax: _____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	CF	CON-TAINER	ANALYSIS REQUEST											
							2920 SIM	2920 SIM MVA's	2920 SIM FUEL	2920 SIM MVA's	2920 SIM FUEL	2920 SIM MVA's	2920 SIM FUEL	2920 SIM MVA's	2920 SIM FUEL	2920 SIM MVA's	2920 SIM FUEL	2920 SIM MVA's
SI-101922-95		10/19/22	0745	W	10	X	X	X	X	X	X	X	X	X	X	X	X	
SE-101922-95		10/19/22	0750	W	12	X	X	X	X	X	X	X	X	X	X	X	X	
KOP-101922-95		10/19/22	0810	W	10	X	X	X	X	X	X	X	X	X	X	X	X	
NWL-101922-95		10/19/22	0820	W	10	X	X	X	X	X	X	X	X	X	X	X	X	
NWE-101922-95		10/19/22	0840	W	9	X	X	X	X	X	X	X	X	X	X	X	X	
TWIA-101922-95		10/19/22	0855	W	10	X	X	X	X	X	X	X	X	X	X	X	X	
TWHB-101922-95		10/19/22	0910	W	10	X	X	X	X	X	X	X	X	X	X	X	X	
TWE-101922-95		10/19/22	0416	W	9	X	X	X	X	X	X	X	X	X	X	X	X	
TPI-101922-95		10/19/22	0100	W	11	X	X	X	X	X	X	X	X	X	X	X	X	
PGAC-101922-95		10/19/22	0130	W	9	X	X	X	X	X	X	X	X	X	X	X	X	
GACM1-101922-95		10/19/22	0015	W	9	X	X	X	X	X	X	X	X	X	X	X	X	
GACM2-101922-95		10/19/22	0145	W	9	X	X	X	X	X	X	X	X	X	X	X	X	
GACF1-101922-95		10/19/22	0048	W	10	X	X	X	X	X	X	X	X	X	X	X	X	
GACF2-101922-95		10/19/22	0200	W	10	X	X	X	X	X	X	X	X	X	X	X	X	
APEX Trip Blank (EPA1631E Mercury)		10/19/22		W	4	X	X	X	X	X	X	X	X	X	X	X	X	

SPECIAL INSTRUCTIONS:
 Normal Turn Around Time (TAT) = 6-10 Business Days

TAT Requested (circle): **1 DAY** 2 DAY 3 DAY 4 DAY
 5 DAY **STD** Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: <u>Nathaniel Savage</u> Printed Name: <u>Nathaniel Savage</u> Company: <u>SES</u>	RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>[Name]</u> Company: <u>APEX LABS</u>
Date: <u>10/19/22</u>	Date: <u>10/10/22</u>
Time: <u>1019</u>	Time: <u>1019</u>

Apex Laboratories



Darwin Thomas, Business Development Director

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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: A2J0589 - 12 02 22 1241
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APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, Inc. Element WO#: A2J0589

Project/Project #: Gasco - Monthly

Delivery Info:
 Date/time received: 10/19/22 @ 1019 By: ESTJ
 Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 10/19/22 @ 1106 By: ESTJ

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>0.5</u>	<u>1.9</u>	<u>2.4</u>	<u>3.0</u>	<u>4.1</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>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</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: 10/19/22 @ 1145 By: W

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

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: 4/6 have HS on SE, 1/3 have HS on TWE

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

Comments: pH 9 on TWIA, SE, NWI on 125ml brown NaOH poly

Additional information: _____

Labeled by: DSS Witness: W Cooler Inspected by: W

Form Y-003 R-00

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