



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, December 27, 2022

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

RE: A2K0622 - 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 A2K0622, which was received by the laboratory on 11/16/2022 at 9:40:00AM.

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	1.6 degC	Cooler #2	2.5 degC
Cooler #3	3.3 degC	Cooler #4	0.6 degC
Cooler #5	1.1 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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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.



Apex Laboratories

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Darwin Thomas, Business Development Director



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<u>Sevenson Environmental Services, Inc.</u> 2749 Lockport Road Niagara Falls, NY 14305	Project: <u>Gasco -- Monthly (2022)</u> Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SI-111622-96	A2K0622-01	Water	11/16/22 01:35	11/16/22 09:40
SE-111622-96	A2K0622-02	Water	11/16/22 02:05	11/16/22 09:40
NWI-111622-96	A2K0622-03	Water	11/16/22 03:20	11/16/22 09:40
NWE-111622-96	A2K0622-04	Water	11/16/22 03:35	11/16/22 09:40
TWIA-111622-96	A2K0622-05	Water	11/16/22 03:25	11/16/22 09:40
TWE-111622-96	A2K0622-06	Water	11/16/22 03:40	11/16/22 09:40
TPI-111622-96	A2K0622-07	Water	11/16/22 00:35	11/16/22 09:40
PGAC-111622-96	A2K0622-08	Water	11/16/22 02:45	11/16/22 09:40
GACM1-111622-96	A2K0622-09	Water	11/16/22 00:15	11/16/22 09:40
GACM2-111622-96	A2K0622-10	Water	11/16/22 03:15	11/16/22 09:40
GACF1-111622-96	A2K0622-11	Water	11/16/22 01:35	11/16/22 09:40
GACF2-111622-96	A2K0622-12	Water	11/16/22 03:30	11/16/22 09:40

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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-111622-96 (A2K0622-01)				Matrix: Water		Batch: 22K0747		
Acetone	ND	50.0	100	ug/L	5	11/19/22 01:51	EPA 8260D	
Acrylonitrile	ND	5.00	10.0	ug/L	5	11/19/22 01:51	EPA 8260D	
Benzene	192	0.500	1.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Bromobenzene	ND	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
Bromochloromethane	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Bromoform	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Bromomethane	ND	25.0	25.0	ug/L	5	11/19/22 01:51	EPA 8260D	
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	11/19/22 01:51	EPA 8260D	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Carbon disulfide	ND	25.0	50.0	ug/L	5	11/19/22 01:51	EPA 8260D	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Chlorobenzene	2.40	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	J
Chloroethane	ND	25.0	25.0	ug/L	5	11/19/22 01:51	EPA 8260D	
Chloroform	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Chloromethane	ND	12.5	25.0	ug/L	5	11/19/22 01:51	EPA 8260D	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	11/19/22 01:51	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
Dibromomethane	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,1-Dichloroethene	ND	1.00	2.00	ug/L	5	11/19/22 01:51	EPA 8260D	
cis-1,2-Dichloroethene	4.30	1.00	2.00	ug/L	5	11/19/22 01:51	EPA 8260D	
trans-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	11/19/22 01:51	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-111622-96 (A2K0622-01)				Matrix: Water		Batch: 22K0747		
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Ethylbenzene	81.9	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	11/19/22 01:51	EPA 8260D	
2-Hexanone	ND	25.0	50.0	ug/L	5	11/19/22 01:51	EPA 8260D	
Isopropylbenzene	4.15	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	J
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Methylene chloride	ND	25.0	50.0	ug/L	5	11/19/22 01:51	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	25.0	50.0	ug/L	5	11/19/22 01:51	EPA 8260D	
Methyl tert-butyl ether (MTBE)	2.95	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	J
n-Propylbenzene	1.65	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	J
Styrene	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Toluene	4.15	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	11/19/22 01:51	EPA 8260D	
1,2,4-Trichlorobenzene	ND	5.00	10.0	ug/L	5	11/19/22 01:51	EPA 8260D	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	
Trichloroethene (TCE)	ND	1.00	2.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	11/19/22 01:51	EPA 8260D	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,2,4-Trimethylbenzene	26.6	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
1,3,5-Trimethylbenzene	7.30	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
Vinyl chloride	11.1	1.00	2.00	ug/L	5	11/19/22 01:51	EPA 8260D	
m,p-Xylene	48.4	2.50	5.00	ug/L	5	11/19/22 01:51	EPA 8260D	
o-Xylene	28.8	1.25	2.50	ug/L	5	11/19/22 01:51	EPA 8260D	

Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 117 % Limits: 80-120 % 1 11/19/22 01:51 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-111622-96 (A2K0622-01)			Matrix: Water			Batch: 22K0747		
<i>Surrogate: Toluene-d8 (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>11/19/22 01:51</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>	<i>1</i>	<i>11/19/22 01:51</i>	<i>EPA 8260D</i>	
SE-111622-96 (A2K0622-02)			Matrix: Water			Batch: 22K0747		
Acetone	ND	20.0	20.0	ug/L	1	11/19/22 01:29	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Benzene	33.2	0.100	0.200	ug/L	1	11/19/22 01:29	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	11/19/22 01:29	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	11/19/22 01:29	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	11/19/22 01:29	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Chlorobenzene	1.02	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	11/19/22 01:29	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,2-Dichlorobenzene	0.610	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	11/19/22 01:29	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	11/19/22 01:29	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-111622-96 (A2K0622-02)				Matrix: Water		Batch: 22K0747		
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	11/19/22 01:29	EPA 8260D	
cis-1,2-Dichloroethene	0.950	0.200	0.400	ug/L	1	11/19/22 01:29	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/19/22 01:29	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Ethylbenzene	18.7	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	11/19/22 01:29	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	11/19/22 01:29	EPA 8260D	
Isopropylbenzene	0.700	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	J
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	11/19/22 01:29	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	11/19/22 01:29	EPA 8260D	
Methyl tert-butyl ether (MTBE)	1.94	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
n-Propylbenzene	0.300	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	J
Styrene	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	11/19/22 01:29	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	11/19/22 01:29	EPA 8260D	
Toluene	0.880	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	11/19/22 01:29	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	11/19/22 01:29	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,2,4-Trimethylbenzene	10.5	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
1,3,5-Trimethylbenzene	2.43	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
Vinyl chloride	0.210	0.200	0.400	ug/L	1	11/19/22 01:29	EPA 8260D	J

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Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SE-111622-96 (A2K0622-02)			Matrix: Water			Batch: 22K0747		
m,p-Xylene	13.4	0.500	1.00	ug/L	1	11/19/22 01:29	EPA 8260D	
o-Xylene	10.6	0.250	0.500	ug/L	1	11/19/22 01:29	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/19/22 01:29</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/19/22 01:29</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/19/22 01:29</i>	<i>EPA 8260D</i>
NWI-111622-96 (A2K0622-03)			Matrix: Water			Batch: 22K0717		
Acetone	ND	20.0	40.0	ug/L	2	11/18/22 19:33	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Benzene	200	0.200	0.400	ug/L	2	11/18/22 19:33	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	11/18/22 19:33	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	11/18/22 19:33	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	11/18/22 19:33	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	11/18/22 19:33	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	11/18/22 19:33	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	10.0	10.0	ug/L	2	11/18/22 19:33	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 19:33	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-03)			Matrix: Water			Batch: 22K0717		
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Ethylbenzene	7.36	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	11/18/22 19:33	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	11/18/22 19:33	EPA 8260D	
Isopropylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	11/18/22 19:33	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	10.0	20.0	ug/L	2	11/18/22 19:33	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
n-Propylbenzene	ND	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
Toluene	0.980	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	J
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	11/18/22 19:33	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	11/18/22 19:33	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-03)			Matrix: Water			Batch: 22K0717		
1,2,4-Trimethylbenzene	1.72	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
Vinyl chloride	ND	0.400	0.800	ug/L	2	11/18/22 19:33	EPA 8260D	
m,p-Xylene	3.06	1.00	2.00	ug/L	2	11/18/22 19:33	EPA 8260D	
o-Xylene	2.00	0.500	1.00	ug/L	2	11/18/22 19:33	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/18/22 19:33</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 19:33</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>90 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 19:33</i>	<i>EPA 8260D</i>
NWE-111622-96 (A2K0622-04)			Matrix: Water			Batch: 22K0717		
Acetone	ND	10.0	20.0	ug/L	1	11/18/22 19:11	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Benzene	72.0	0.100	0.200	ug/L	1	11/18/22 19:11	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	11/18/22 19:11	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	11/18/22 19:11	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	11/18/22 19:11	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	11/18/22 19:11	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	11/18/22 19:11	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-04)			Matrix: Water			Batch: 22K0717		
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Ethylbenzene	2.80	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	11/18/22 19:11	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	11/18/22 19:11	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	11/18/22 19:11	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	11/18/22 19:11	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
Toluene	0.700	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	11/18/22 19:11	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-04)			Matrix: Water			Batch: 22K0717		
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	11/18/22 19:11	EPA 8260D	
m,p-Xylene	0.810	0.500	1.00	ug/L	1	11/18/22 19:11	EPA 8260D	J
o-Xylene	0.970	0.250	0.500	ug/L	1	11/18/22 19:11	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/18/22 19:11</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 19:11</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>90 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 19:11</i>	<i>EPA 8260D</i>

TWIA-111622-96 (A2K0622-05)			Matrix: Water			Batch: 22K0717		
Acetone	ND	200	400	ug/L	20	11/18/22 19:55	EPA 8260D	
Acrylonitrile	ND	20.0	40.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Bromobenzene	ND	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Bromochloromethane	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Bromodichloromethane	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Bromoform	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Bromomethane	ND	100	100	ug/L	20	11/18/22 19:55	EPA 8260D	
2-Butanone (MEK)	ND	100	200	ug/L	20	11/18/22 19:55	EPA 8260D	
n-Butylbenzene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
sec-Butylbenzene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
tert-Butylbenzene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Carbon disulfide	ND	100	200	ug/L	20	11/18/22 19:55	EPA 8260D	
Carbon tetrachloride	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Chlorobenzene	ND	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Chloroethane	ND	100	100	ug/L	20	11/18/22 19:55	EPA 8260D	
Chloroform	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Chloromethane	ND	50.0	100	ug/L	20	11/18/22 19:55	EPA 8260D	
2-Chlorotoluene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
4-Chlorotoluene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Dibromochloromethane	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	100	100	ug/L	20	11/18/22 19:55	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-05)			Matrix: Water			Batch: 22K0717		
1,2-Dibromoethane (EDB)	ND	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Dibromomethane	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,2-Dichlorobenzene	ND	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,3-Dichlorobenzene	ND	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,4-Dichlorobenzene	ND	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Dichlorodifluoromethane	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,1-Dichloroethane	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
1,1-Dichloroethene	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
cis-1,2-Dichloroethene	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
trans-1,2-Dichloroethene	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
1,2-Dichloropropane	ND	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,3-Dichloropropane	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
2,2-Dichloropropane	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,1-Dichloropropene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
cis-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
trans-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Ethylbenzene	208	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Hexachlorobutadiene	ND	50.0	100	ug/L	20	11/18/22 19:55	EPA 8260D	
2-Hexanone	ND	100	200	ug/L	20	11/18/22 19:55	EPA 8260D	
Isopropylbenzene	11.6	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	J
4-Isopropyltoluene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Methylene chloride	ND	100	200	ug/L	20	11/18/22 19:55	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	100	200	ug/L	20	11/18/22 19:55	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
n-Propylbenzene	5.80	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	J
Styrene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Tetrachloroethene (PCE)	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
Toluene	106	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,2,3-Trichlorobenzene	ND	20.0	40.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,2,4-Trichlorobenzene	ND	20.0	40.0	ug/L	20	11/18/22 19:55	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-05)			Matrix: Water			Batch: 22K0717		
1,1,1-Trichloroethane	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
1,1,2-Trichloroethane	ND	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Trichloroethene (TCE)	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
Trichlorofluoromethane	ND	20.0	40.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,2,3-Trichloropropane	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,2,4-Trimethylbenzene	47.4	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
1,3,5-Trimethylbenzene	ND	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
Vinyl chloride	ND	4.00	8.00	ug/L	20	11/18/22 19:55	EPA 8260D	
m,p-Xylene	132	10.0	20.0	ug/L	20	11/18/22 19:55	EPA 8260D	
o-Xylene	116	5.00	10.0	ug/L	20	11/18/22 19:55	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/18/22 19:55</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 19:55</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>89 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 19:55</i>	<i>EPA 8260D</i>

TWIA-111622-96 (A2K0622-05RE2)			Matrix: Water			Batch: 22K0877		
Benzene	11600	20.0	40.0	ug/L	200	11/23/22 12:47	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/23/22 12:47</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/23/22 12:47</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/23/22 12:47</i>	<i>EPA 8260D</i>

TWE-111622-96 (A2K0622-06)			Matrix: Water			Batch: 22K0717		
Acetone	ND	20.0	40.0	ug/L	2	11/18/22 20:17	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Benzene	140	0.200	0.400	ug/L	2	11/18/22 20:17	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	11/18/22 20:17	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	11/18/22 20:17	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	11/18/22 20:17	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-06)			Matrix: Water			Batch: 22K0717		
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	11/18/22 20:17	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	11/18/22 20:17	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	10.0	10.0	ug/L	2	11/18/22 20:17	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Ethylbenzene	2.80	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	11/18/22 20:17	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	11/18/22 20:17	EPA 8260D	
Isopropylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	11/18/22 20:17	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	10.0	20.0	ug/L	2	11/18/22 20:17	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-06)			Matrix: Water			Batch: 22K0717		
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
n-Propylbenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
Toluene	1.66	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,2,4-Trimethylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
1,3,5-Trimethylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	
Vinyl chloride	ND	0.400	0.800	ug/L	2	11/18/22 20:17	EPA 8260D	
m,p-Xylene	1.82	1.00	2.00	ug/L	2	11/18/22 20:17	EPA 8260D	J
o-Xylene	1.78	0.500	1.00	ug/L	2	11/18/22 20:17	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/18/22 20:17</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 20:17</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 20:17</i>	<i>EPA 8260D</i>

TPI-111622-96 (A2K0622-07)			Matrix: Water			Batch: 22K0717		
Acetone	ND	20.0	40.0	ug/L	2	11/18/22 20:39	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Benzene	74.7	0.200	0.400	ug/L	2	11/18/22 20:39	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	11/18/22 20:39	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	11/18/22 20:39	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-07)			Matrix: Water			Batch: 22K0717		
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	11/18/22 20:39	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	11/18/22 20:39	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	11/18/22 20:39	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	10.0	10.0	ug/L	2	11/18/22 20:39	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Ethylbenzene	5.04	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	11/18/22 20:39	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	11/18/22 20:39	EPA 8260D	
Isopropylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-07)			Matrix: Water			Batch: 22K0717		
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	11/18/22 20:39	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	10.0	20.0	ug/L	2	11/18/22 20:39	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
n-Propylbenzene	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
Toluene	2.42	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
1,2,4-Trimethylbenzene	1.86	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
Vinyl chloride	ND	0.400	0.800	ug/L	2	11/18/22 20:39	EPA 8260D	
m,p-Xylene	3.36	1.00	2.00	ug/L	2	11/18/22 20:39	EPA 8260D	
o-Xylene	2.62	0.500	1.00	ug/L	2	11/18/22 20:39	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>11/18/22 20:39</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>11/18/22 20:39</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>89 %</i>		<i>80-120 %</i>	<i>1</i>	<i>11/18/22 20:39</i>	<i>EPA 8260D</i>	

PGAC-111622-96 (A2K0622-08RE2)			Matrix: Water			Batch: 22K0877		
Acetone	ND	10.0	20.0	ug/L	1	11/23/22 11:43	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Benzene	47.1	0.100	0.200	ug/L	1	11/23/22 11:43	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Bromodichloromethane	7.17	0.500	1.00	ug/L	1	11/23/22 11:43	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-08RE2)			Matrix: Water			Batch: 22K0877		
Bromoform	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	11/23/22 11:43	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	11/23/22 11:43	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	11/23/22 11:43	EPA 8260D	
Carbon tetrachloride	1.28	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Chlorobenzene	0.280	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	J
Chloroethane	ND	5.00	5.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Chloroform	42.0	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	11/23/22 11:43	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Dibromochloromethane	0.920	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	J
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-08RE2)				Matrix: Water		Batch: 22K0877		
Ethylbenzene	0.370	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	J
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	11/23/22 11:43	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	11/23/22 11:43	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	11/23/22 11:43	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	11/23/22 11:43	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	11/23/22 11:43	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	11/23/22 11:43	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	11/23/22 11:43	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	11/23/22 11:43	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>11/23/22 11:43</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>78 %</i>		<i>80-120 %</i>	<i>1</i>	<i>11/23/22 11:43</i>	<i>EPA 8260D</i>	<i>S-03</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>82 %</i>		<i>80-120 %</i>	<i>1</i>	<i>11/23/22 11:43</i>	<i>EPA 8260D</i>	

GACM1-111622-96 (A2K0622-09)				Matrix: Water		Batch: 22K0717		
Acetone	ND	10.0	20.0	ug/L	1	11/18/22 17:41	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	11/18/22 17:41	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: A2K0622 - 12 27 22 1313
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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
GACM1-111622-96 (A2K0622-09)			Matrix: Water			Batch: 22K0717		
Benzene	ND	0.100	0.200	ug/L	1	11/18/22 17:41	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Bromodichloromethane	15.3	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Bromoform	0.720	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	J
Bromomethane	ND	5.00	5.00	ug/L	1	11/18/22 17:41	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	11/18/22 17:41	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	11/18/22 17:41	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Chloroform	73.0	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	11/18/22 17:41	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Dibromochloromethane	3.22	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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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
GACM1-111622-96 (A2K0622-09)			Matrix: Water			Batch: 22K0717		
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	11/18/22 17:41	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	11/18/22 17:41	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	11/18/22 17:41	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	11/18/22 17:41	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	11/18/22 17:41	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	11/18/22 17:41	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	11/18/22 17:41	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/18/22 17:41</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 17:41</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 17:41</i>	<i>EPA 8260D</i>

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: A2K0622 - 12 27 22 1313
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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
GACM2-111622-96 (A2K0622-10)			Matrix: Water			Batch: 22K0717		
Acetone	ND	10.0	20.0	ug/L	1	11/18/22 18:04	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Benzene	0.640	0.100	0.200	ug/L	1	11/18/22 18:04	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Bromodichloromethane	3.00	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	11/18/22 18:04	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	11/18/22 18:04	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	11/18/22 18:04	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Chloroform	32.0	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	11/18/22 18:04	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 18:04	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	11/18/22 18:04	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 18:04	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 18:04	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 18:04	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: A2K0622 - 12 27 22 1313
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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
GACM2-111622-96 (A2K0622-10)				Matrix: Water		Batch: 22K0717		
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	11/18/22 18:04	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	11/18/22 18:04	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	11/18/22 18:04	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	11/18/22 18:04	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	11/18/22 18:04	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	11/18/22 18:04	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 18:04	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	11/18/22 18:04	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
Vinyl chloride	0.290	0.200	0.400	ug/L	1	11/18/22 18:04	EPA 8260D	J
m,p-Xylene	ND	0.500	1.00	ug/L	1	11/18/22 18:04	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	11/18/22 18:04	EPA 8260D	

Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 112 % Limits: 80-120 % 1 11/18/22 18:04 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: A2K0622 - 12 27 22 1313
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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
GACM2-111622-96 (A2K0622-10)				Matrix: Water		Batch: 22K0717		
<i>Surrogate: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/18/22 18:04</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 18:04</i>	<i>EPA 8260D</i>
GACF1-111622-96 (A2K0622-11)				Matrix: Water		Batch: 22K0717		
Acetone	ND	10.0	20.0	ug/L	1	11/18/22 18:26	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	11/18/22 18:26	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Bromodichloromethane	18.0	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	11/18/22 18:26	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	11/18/22 18:26	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	11/18/22 18:26	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Chloroform	94.8	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	11/18/22 18:26	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Dibromochloromethane	2.69	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 18:26	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	11/18/22 18:26	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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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
GACF1-111622-96 (A2K0622-11)				Matrix: Water		Batch: 22K0717		
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 18:26	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 18:26	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 18:26	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	11/18/22 18:26	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	11/18/22 18:26	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	11/18/22 18:26	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	11/18/22 18:26	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.540	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	11/18/22 18:26	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	11/18/22 18:26	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 18:26	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	11/18/22 18:26	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	11/18/22 18:26	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: A2K0622 - 12 27 22 1313
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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
GACF1-111622-96 (A2K0622-11)			Matrix: Water			Batch: 22K0717		
m,p-Xylene	ND	0.500	1.00	ug/L	1	11/18/22 18:26	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	11/18/22 18:26	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 113 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/18/22 18:26</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 18:26</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 18:26</i>	<i>EPA 8260D</i>
GACF2-111622-96 (A2K0622-12)			Matrix: Water			Batch: 22K0717		
Acetone	10.6	10.0	20.0	ug/L	1	11/18/22 18:48	EPA 8260D	J
Acrylonitrile	ND	1.00	2.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	11/18/22 18:48	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Bromodichloromethane	6.21	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	11/18/22 18:48	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	11/18/22 18:48	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	11/18/22 18:48	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Chloroform	39.6	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	11/18/22 18:48	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Dibromochloromethane	0.740	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	J
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	11/18/22 18:48	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:48	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: A2K0622 - 12 27 22 1313
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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
GACF2-111622-96 (A2K0622-12)			Matrix: Water			Batch: 22K0717		
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	11/18/22 18:48	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	11/18/22 18:48	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	11/18/22 18:48	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	11/18/22 18:48	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 18:48	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	11/18/22 18:48	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	11/18/22 18:48	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	11/18/22 18:48	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: A2K0622 - 12 27 22 1313
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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
GACF2-111622-96 (A2K0622-12)			Matrix: Water			Batch: 22K0717		
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
Vinyl chloride	0.230	0.200	0.400	ug/L	1	11/18/22 18:48	EPA 8260D	J
m,p-Xylene	ND	0.500	1.00	ug/L	1	11/18/22 18:48	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	11/18/22 18:48	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 113 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>11/18/22 18:48</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 18:48</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>80-120 %</i>		<i>1</i>	<i>11/18/22 18:48</i>	<i>EPA 8260D</i>

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-01)			Matrix: Water			Batch: 22K0824			
Acenaphthene	202	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Acenaphthylene	ND	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Anthracene	27.1	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Benz(a)anthracene	ND	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Benzo(a)pyrene	ND	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Benzo(b)fluoranthene	ND	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Benzo(k)fluoranthene	ND	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Benzo(g,h,i)perylene	ND	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Chrysene	ND	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Fluoranthene	29.6	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Fluorene	63.4	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	ND	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
1-Methylnaphthalene	309	20.4	40.8	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
2-Methylnaphthalene	473	20.4	40.8	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Naphthalene	5170	20.4	40.8	ug/L	500	11/22/22 18:59	EPA 8270E SIM	B	
Phenanthrene	162	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Pyrene	31.9	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM		
Dibenzofuran	14.0	10.2	20.4	ug/L	500	11/22/22 18:59	EPA 8270E SIM	J	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 44-120 %</i>		<i>500</i>	<i>11/22/22 18:59</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>111 %</i>		<i>50-134 %</i>		<i>500</i>	<i>11/22/22 18:59</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

SE-111622-96 (A2K0622-02)			Matrix: Water			Batch: 22K0824		
Acenaphthene	149	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Acenaphthylene	ND	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Anthracene	20.9	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Benz(a)anthracene	ND	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Benzo(a)pyrene	ND	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Chrysene	ND	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	4.35	8.70	ug/L	200	11/22/22 19:24	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-02)			Matrix: Water			Batch: 22K0824		
Fluoranthene	13.7	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Fluorene	53.9	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
1-Methylnaphthalene	167	8.70	17.4	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
2-Methylnaphthalene	194	8.70	17.4	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Naphthalene	1440	8.70	17.4	ug/L	200	11/22/22 19:24	EPA 8270E SIM	B
Phenanthrene	127	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Pyrene	14.2	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
Dibenzofuran	10.3	4.35	8.70	ug/L	200	11/22/22 19:24	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 71 %</i>		<i>Limits: 44-120 %</i>	<i>200</i>	<i>11/22/22 19:24</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>80 %</i>		<i>50-134 %</i>	<i>200</i>	<i>11/22/22 19:24</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
NWI-111622-96 (A2K0622-03)			Matrix: Water			Batch: 22K0824		
Acenaphthene	7.67	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Acenaphthylene	ND	0.860	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Anthracene	2.22	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Benz(a)anthracene	0.489	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	J
Benzo(a)pyrene	ND	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Chrysene	ND	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Fluoranthene	2.96	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Fluorene	4.07	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
1-Methylnaphthalene	9.81	0.860	1.72	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
2-Methylnaphthalene	7.69	0.860	1.72	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Naphthalene	10.2	0.860	1.72	ug/L	20	11/22/22 19:49	EPA 8270E SIM	B
Phenanthrene	14.6	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Pyrene	3.26	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
Dibenzofuran	1.06	0.430	0.860	ug/L	20	11/22/22 19:49	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 66 %</i>		<i>Limits: 44-120 %</i>	<i>20</i>	<i>11/22/22 19:49</i>	<i>EPA 8270E SIM</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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-03)			Matrix: Water			Batch: 22K0824			
<i>Surrogate: p-Terphenyl-d14 (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 50-134 %</i>		<i>20</i>		<i>11/22/22 19:49</i>	<i>EPA 8270E SIM</i>
NWE-111622-96 (A2K0622-04)			Matrix: Water			Batch: 22K0824			
Acenaphthene	7.31	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Acenaphthylene	ND	0.842	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Anthracene	0.489	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM	J	
Benz(a)anthracene	ND	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Benzo(a)pyrene	ND	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Benzo(b)fluoranthene	ND	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Benzo(k)fluoranthene	ND	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Benzo(g,h,i)perylene	ND	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Chrysene	ND	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Fluoranthene	1.80	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Fluorene	2.82	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	ND	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
1-Methylnaphthalene	9.93	0.842	1.68	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
2-Methylnaphthalene	8.50	0.842	1.68	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Naphthalene	76.8	0.842	1.68	ug/L	20	11/22/22 21:30	EPA 8270E SIM	B	
Phenanthrene	7.10	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Pyrene	1.84	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
Dibenzofuran	0.851	0.421	0.842	ug/L	20	11/22/22 21:30	EPA 8270E SIM		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 76 %</i>		<i>Limits: 44-120 %</i>		<i>20</i>		<i>11/22/22 21:30</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>95 %</i>		<i>50-134 %</i>		<i>20</i>		<i>11/22/22 21:30</i>	<i>EPA 8270E SIM</i>

TWIA-111622-96 (A2K0622-05)			Matrix: Water			Batch: 22K0824		
Acenaphthene	92.9	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Acenaphthylene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Anthracene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Benz(a)anthracene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Benzo(a)pyrene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-05)			Matrix: Water			Batch: 22K0824		
Chrysene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Fluoranthene	7.26	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	J
Fluorene	15.3	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
1-Methylnaphthalene	112	8.33	16.7	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
2-Methylnaphthalene	33.2	8.33	16.7	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Naphthalene	1810	8.33	16.7	ug/L	200	11/22/22 21:55	EPA 8270E SIM	B
Phenanthrene	13.0	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
Pyrene	7.45	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	J
Dibenzofuran	ND	4.17	8.33	ug/L	200	11/22/22 21:55	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 76 %</i>		<i>Limits: 44-120 %</i>	<i>200</i>	<i>11/22/22 21:55</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>84 %</i>		<i>50-134 %</i>	<i>200</i>	<i>11/22/22 21:55</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

TWE-111622-96 (A2K0622-06)			Matrix: Water			Batch: 22K0824		
Acenaphthene	15.4	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Acenaphthylene	ND	0.825	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Anthracene	ND	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Benz(a)anthracene	0.430	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	J
Benzo(a)pyrene	ND	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Chrysene	ND	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Fluoranthene	3.42	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Fluorene	4.89	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
1-Methylnaphthalene	14.0	0.825	1.65	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
2-Methylnaphthalene	8.75	0.825	1.65	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Naphthalene	101	0.825	1.65	ug/L	20	11/22/22 22:20	EPA 8270E SIM	B
Phenanthrene	11.4	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
Pyrene	3.46	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	

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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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-06)			Matrix: Water			Batch: 22K0824		
Dibenzofuran	1.04	0.412	0.825	ug/L	20	11/22/22 22:20	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 69 %</i>		<i>Limits: 44-120 %</i>		<i>20</i>	<i>11/22/22 22:20</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>82 %</i>		<i>50-134 %</i>		<i>20</i>	<i>11/22/22 22:20</i>	<i>EPA 8270E SIM</i>
TPI-111622-96 (A2K0622-07)			Matrix: Water			Batch: 22K0824		
Acenaphthene	43.7	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Acenaphthylene	ND	1.35	1.35	ug/L	5	11/22/22 22:45	EPA 8270E SIM	R-02
Anthracene	6.78	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Benz(a)anthracene	0.597	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Benzo(a)pyrene	0.312	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Benzo(b)fluoranthene	0.339	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	M-05
Benzo(k)fluoranthene	ND	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Benzo(g,h,i)perylene	0.210	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Chrysene	0.772	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Fluoranthene	7.93	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Fluorene	18.6	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	0.239	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
1-Methylnaphthalene	33.3	0.208	0.417	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
2-Methylnaphthalene	19.6	0.208	0.417	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Phenanthrene	45.5	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Pyrene	7.83	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
Dibenzofuran	2.56	0.104	0.208	ug/L	5	11/22/22 22:45	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 76 %</i>		<i>Limits: 44-120 %</i>		<i>5</i>	<i>11/22/22 22:45</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>96 %</i>		<i>50-134 %</i>		<i>5</i>	<i>11/22/22 22:45</i>	<i>EPA 8270E SIM</i>
TPI-111622-96 (A2K0622-07RE1)			Matrix: Water			Batch: 22K0824		
Naphthalene	91.7	2.08	4.17	ug/L	50	11/23/22 15:24	EPA 8270E SIM	B
PGAC-111622-96 (A2K0622-08)			Matrix: Water			Batch: 22K0824		
Acenaphthene	ND	0.152	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Acenaphthylene	ND	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Anthracene	ND	0.152	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	

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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: A2K0622 - 12 27 22 1313
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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-111622-96 (A2K0622-08)				Matrix: Water		Batch: 22K0824		
Benzo(g,h,i)perylene	ND	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Chrysene	ND	0.152	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Fluoranthene	1.39	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Fluorene	10.5	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
1-Methylnaphthalene	4.00	0.152	0.305	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
2-Methylnaphthalene	2.84	0.152	0.305	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Phenanthrene	9.22	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Pyrene	ND	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
Dibenzofuran	1.89	0.0762	0.152	ug/L	4	11/22/22 23:10	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 68 %</i>		<i>Limits: 44-120 %</i>		<i>4</i>	<i>11/22/22 23:10</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>54 %</i>		<i>50-134 %</i>		<i>4</i>	<i>11/22/22 23:10</i>	<i>EPA 8270E SIM</i>
PGAC-111622-96 (A2K0622-08RE1)				Matrix: Water		Batch: 22K0824		
Benzo(a)pyrene	ND	0.190	0.381	ug/L	10	11/23/22 15:49	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.190	0.381	ug/L	10	11/23/22 15:49	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.190	0.381	ug/L	10	11/23/22 15:49	EPA 8270E SIM	
Naphthalene	108	0.381	0.762	ug/L	10	11/23/22 15:49	EPA 8270E SIM	B
GACM1-111622-96 (A2K0622-09)				Matrix: Water		Batch: 22K0824		
Acenaphthene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Acenaphthylene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Anthracene	0.0285	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	J
Benz(a)anthracene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Chrysene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Fluoranthene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Fluorene	ND	0.0667	0.0667	ug/L	1	11/23/22 13:43	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	

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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: A2K0622 - 12 27 22 1313
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ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
			Matrix: Water			Batch: 22K0824		
GACM1-111622-96 (A2K0622-09)								
1-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Naphthalene	ND	0.0381	0.0762	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Phenanthrene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Pyrene	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
Dibenzofuran	ND	0.0190	0.0381	ug/L	1	11/23/22 13:43	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 63 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>11/23/22 13:43</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>67 %</i>		<i>50-134 %</i>		<i>1</i>	<i>11/23/22 13:43</i>	<i>EPA 8270E SIM</i>

			Matrix: Water			Batch: 22K0824		
GACM2-111622-96 (A2K0622-10)								
Acenaphthene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Acenaphthylene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Anthracene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Chrysene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Fluoranthene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Fluorene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0494	0.0988	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0494	0.0988	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Naphthalene	ND	0.0494	0.0988	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Phenanthrene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Pyrene	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
Dibenzofuran	ND	0.0247	0.0494	ug/L	1	11/23/22 14:08	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 65 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>11/23/22 14:08</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>66 %</i>		<i>50-134 %</i>		<i>1</i>	<i>11/23/22 14:08</i>	<i>EPA 8270E SIM</i>

			Matrix: Water			Batch: 22K0824		
GACF1-111622-96 (A2K0622-11RE1)								
Acenaphthene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	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
GACF1-111622-96 (A2K0622-11RE1)			Matrix: Water			Batch: 22K0824		
Acenaphthylene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Anthracene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Chrysene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Fluoranthene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Fluorene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0385	0.0769	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0385	0.0769	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Naphthalene	ND	0.0385	0.0769	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Phenanthrene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Pyrene	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
Dibenzofuran	ND	0.0192	0.0385	ug/L	1	11/23/22 14:33	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 67 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>11/23/22 14:33</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>70 %</i>		<i>50-134 %</i>		<i>1</i>	<i>11/23/22 14:33</i>	<i>EPA 8270E SIM</i>

GACF2-111622-96 (A2K0622-12)			Matrix: Water			Batch: 22K0824		
Acenaphthene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Acenaphthylene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Anthracene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Benz(a)anthracene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Chrysene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Fluoranthene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	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
			Matrix: Water			Batch: 22K0824		
GACF2-111622-96 (A2K0622-12)								
Fluorene	ND	0.0440	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0440	0.0879	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0440	0.0879	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Naphthalene	ND	0.0440	0.0879	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Phenanthrene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Pyrene	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
Dibenzofuran	ND	0.0220	0.0440	ug/L	1	11/23/22 14:58	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 68 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>11/23/22 14:58</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>72 %</i>		<i>50-134 %</i>		<i>1</i>	<i>11/23/22 14:58</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-111622-96 (A2K0622-01)				Matrix: Water		Batch: 22K0887		
Mercury	ND	0.000500	0.00100	ug/L	1	11/28/22 13:54	EPA 1631E-LL	
NWI-111622-96 (A2K0622-03)				Matrix: Water		Batch: 22K0887		
Mercury	ND	0.000500	0.00100	ug/L	1	11/28/22 14:09	EPA 1631E-LL	
TWIA-111622-96 (A2K0622-05)				Matrix: Water		Batch: 22K0887		
Mercury	ND	0.000500	0.00100	ug/L	1	11/28/22 14:14	EPA 1631E-LL	
TPI-111622-96 (A2K0622-07)				Matrix: Water		Batch: 22K0887		
Mercury	ND	0.000500	0.00100	ug/L	1	11/28/22 14:29	EPA 1631E-LL	
PGAC-111622-96 (A2K0622-08)				Matrix: Water		Batch: 22K0887		
Mercury	0.00139	0.000500	0.00100	ug/L	1	11/28/22 14:34	EPA 1631E-LL	
GACM1-111622-96 (A2K0622-09)				Matrix: Water		Batch: 22K0887		
Mercury	0.00170	0.000500	0.00100	ug/L	1	11/28/22 14:39	EPA 1631E-LL	
GACM2-111622-96 (A2K0622-10RE1)				Matrix: Water		Batch: 22L0079		
Mercury	0.0295	0.00200	0.00400	ug/L	1	12/03/22 16:43	EPA 1631E-LL	
GACF1-111622-96 (A2K0622-11)				Matrix: Water		Batch: 22K0887		
Mercury	0.00144	0.000500	0.00100	ug/L	1	11/28/22 14:49	EPA 1631E-LL	
GACF2-111622-96 (A2K0622-12)				Matrix: Water		Batch: 22K0887		
Mercury	0.00745	0.000500	0.00100	ug/L	1	11/28/22 14:54	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-111622-96 (A2K0622-01) Matrix: Water								
Batch: 22K0723								
Iron	34900	125	250	ug/L	5	11/19/22 01:50	EPA 6020B	
SI-111622-96 (A2K0622-01RE1) Matrix: Water								
Batch: 22K0723								
Copper	ND	1.00	2.00	ug/L	1	11/22/22 05:08	EPA 6020B	
SE-111622-96 (A2K0622-02) Matrix: Water								
Batch: 22K0723								
Copper	ND	5.00	10.0	ug/L	5	11/19/22 02:16	EPA 6020B	R-04
Iron	34600	125	250	ug/L	5	11/19/22 02:16	EPA 6020B	
NWI-111622-96 (A2K0622-03) Matrix: Water								
Batch: 22K0723								
Iron	66200	125	250	ug/L	5	11/19/22 02:21	EPA 6020B	
NWI-111622-96 (A2K0622-03RE1) Matrix: Water								
Batch: 22K0723								
Copper	ND	1.00	2.00	ug/L	1	11/22/22 05:24	EPA 6020B	
NWE-111622-96 (A2K0622-04) Matrix: Water								
Batch: 22K0723								
Copper	ND	5.00	10.0	ug/L	5	11/19/22 02:27	EPA 6020B	R-04
Iron	62500	125	250	ug/L	5	11/19/22 02:27	EPA 6020B	
TWIA-111622-96 (A2K0622-05) Matrix: Water								
Batch: 22K0723								
Iron	23700	125	250	ug/L	5	11/19/22 02:32	EPA 6020B	
TWIA-111622-96 (A2K0622-05RE1) Matrix: Water								
Batch: 22K0723								
Copper	ND	1.00	2.00	ug/L	1	11/22/22 05:29	EPA 6020B	
TWE-111622-96 (A2K0622-06) Matrix: Water								
Batch: 22K0723								
Copper	ND	5.00	10.0	ug/L	5	11/19/22 02:37	EPA 6020B	R-04

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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
TWE-111622-96 (A2K0622-06) Matrix: Water								
Iron	56500	125	250	ug/L	5	11/19/22 02:37	EPA 6020B	
TPI-111622-96 (A2K0622-07) Matrix: Water								
Batch: 22K0723								
Copper	ND	5.00	10.0	ug/L	5	11/19/22 02:42	EPA 6020B	R-04
Iron	49200	125	250	ug/L	5	11/19/22 02:42	EPA 6020B	
PGAC-111622-96 (A2K0622-08) Matrix: Water								
Batch: 22K0723								
Copper	ND	5.00	10.0	ug/L	5	11/19/22 02:48	EPA 6020B	R-04
Iron	186	125	250	ug/L	5	11/19/22 02:48	EPA 6020B	J, R-04
GACM1-111622-96 (A2K0622-09) Matrix: Water								
Batch: 22K0723								
Copper	ND	5.00	10.0	ug/L	5	11/19/22 02:53	EPA 6020B	R-04
Iron	ND	125	250	ug/L	5	11/19/22 02:53	EPA 6020B	R-04
GACM2-111622-96 (A2K0622-10) Matrix: Water								
Batch: 22K0723								
Copper	ND	5.00	10.0	ug/L	5	11/19/22 02:58	EPA 6020B	R-04
Iron	ND	125	250	ug/L	5	11/19/22 02:58	EPA 6020B	R-04
GACF1-111622-96 (A2K0622-11) Matrix: Water								
Batch: 22K0723								
Arsenic	1.29	0.500	1.00	ug/L	1	11/19/22 03:14	EPA 6020B	
Barium	9.12	1.00	2.00	ug/L	1	11/19/22 03:14	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	11/19/22 03:14	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	11/19/22 03:14	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	11/19/22 03:14	EPA 6020B	
Iron	183	25.0	50.0	ug/L	1	11/19/22 03:14	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	11/19/22 03:14	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	11/19/22 03:14	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	11/19/22 03:14	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	11/19/22 03:14	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
GACF2-111622-96 (A2K0622-12)				Matrix: Water				
Batch: 22K0723								
Arsenic	0.946	0.500	1.00	ug/L	1	11/19/22 03:19	EPA 6020B	J
Barium	11.0	1.00	2.00	ug/L	1	11/19/22 03:19	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	11/19/22 03:19	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	11/19/22 03:19	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	11/19/22 03:19	EPA 6020B	
Iron	295	25.0	50.0	ug/L	1	11/19/22 03:19	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	11/19/22 03:19	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	11/19/22 03:19	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	11/19/22 03:19	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	11/19/22 03:19	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-111622-96 (A2K0622-01)				Matrix: Water		Batch: 22L0404		
HEM (Oil and Grease)	4120	980	980	ug/L	1	12/13/22 13:40	EPA 1664B	Q-30
SE-111622-96 (A2K0622-02)				Matrix: Water		Batch: 22L0404		
HEM (Oil and Grease)	4570	952	952	ug/L	1	12/13/22 13:40	EPA 1664B	PRES, Q-30
NWI-111622-96 (A2K0622-03)				Matrix: Water		Batch: 22L0092		
HEM (Oil and Grease)	ND	5050	5050	ug/L	1	12/05/22 08:17	EPA 1664B	
NWE-111622-96 (A2K0622-04)				Matrix: Water		Batch: 22L0092		
HEM (Oil and Grease)	ND	4900	4900	ug/L	1	12/05/22 08:17	EPA 1664B	
TWIA-111622-96 (A2K0622-05)				Matrix: Water		Batch: 22L0092		
HEM (Oil and Grease)	ND	4810	4810	ug/L	1	12/05/22 08:17	EPA 1664B	
TWE-111622-96 (A2K0622-06)				Matrix: Water		Batch: 22L0092		
HEM (Oil and Grease)	ND	4900	4900	ug/L	1	12/05/22 08:17	EPA 1664B	PRES
TPI-111622-96 (A2K0622-07)				Matrix: Water		Batch: 22L0092		
HEM (Oil and Grease)	ND	4810	4810	ug/L	1	12/05/22 08:17	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: 22K0767		
SI-111622-96 (A2K0622-01)								
Total Cyanide	143	12.5	25.0	ug/L	5	11/21/22 12:50	D7511-12	
				Matrix: Water		Batch: 22K0767		
SE-111622-96 (A2K0622-02)								
Total Cyanide	177	12.5	25.0	ug/L	5	11/21/22 12:52	D7511-12	
				Matrix: Water		Batch: 22K0767		
NWI-111622-96 (A2K0622-03)								
Total Cyanide	120	12.5	25.0	ug/L	5	11/21/22 12:54	D7511-12	
				Matrix: Water		Batch: 22K0767		
NWE-111622-96 (A2K0622-04)								
Total Cyanide	124	12.5	25.0	ug/L	5	11/21/22 12:58	D7511-12	
				Matrix: Water		Batch: 22K0767		
TWIA-111622-96 (A2K0622-05)								
Total Cyanide	150	12.5	25.0	ug/L	5	11/21/22 13:00	D7511-12	
				Matrix: Water		Batch: 22K0767		
TWE-111622-96 (A2K0622-06)								
Total Cyanide	127	12.5	25.0	ug/L	5	11/21/22 13:02	D7511-12	
				Matrix: Water		Batch: 22K0767		
TPI-111622-96 (A2K0622-07)								
Total Cyanide	141	12.5	25.0	ug/L	5	11/21/22 13:06	D7511-12	
				Matrix: Water		Batch: 22K0767		
PGAC-111622-96 (A2K0622-08)								
Total Cyanide	150	12.5	25.0	ug/L	5	11/21/22 13:08	D7511-12	
				Matrix: Water		Batch: 22K0767		
GACM1-111622-96 (A2K0622-09)								
Total Cyanide	142	12.5	25.0	ug/L	5	11/21/22 13:10	D7511-12	
				Matrix: Water		Batch: 22K0767		
GACM2-111622-96 (A2K0622-10)								
Total Cyanide	173	12.5	25.0	ug/L	5	11/21/22 13:12	D7511-12	
				Matrix: Water		Batch: 22K0767		
GACF1-111622-96 (A2K0622-11)								
Total Cyanide	135	12.5	25.0	ug/L	5	11/21/22 13:22	D7511-12	
				Matrix: Water		Batch: 22K0767		
GACF2-111622-96 (A2K0622-12)								
Total Cyanide	161	12.5	25.0	ug/L	5	11/21/22 13:24	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
GACF1-111622-96 (A2K0622-11)				Matrix: Water		Batch: 22K0686		
Available Cyanide	8.75	1.00	2.00	ug/L	1	11/17/22 15:53	D6888-09	
GACF2-111622-96 (A2K0622-12)				Matrix: Water		Batch: 22K0686		
Available Cyanide	9.55	1.00	2.00	ug/L	1	11/17/22 15:57	D6888-09	

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ANALYTICAL SAMPLE RESULTS

Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACF1-111622-96 (A2K0622-11)				Matrix: Water		Batch: 22K0668		
Free Cyanide	4.64	2.50	5.00	ug/L	1	11/17/22 11:25	D7237-15A	J
GACF2-111622-96 (A2K0622-12)				Matrix: Water		Batch: 22K0668		
Free Cyanide	3.99	2.50	5.00	ug/L	1	11/17/22 11:28	D7237-15A	J

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ANALYTICAL SAMPLE RESULTS

Cyanide Interference Testing

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PGAC-111622-96 (A2K0622-08)				Matrix: Water		Batch: 22K0649		
CN_Sulfides	ND	0.500	0.500	N/A	1	11/16/22 14:49	D7365-09a	
CN_Oxidizers	DET	0.500	0.500	N/A	1	11/16/22 14:49	D7365-09a	CN-03
CN_Aldehydes	ND	0.500	0.500	N/A	1	11/16/22 14:49	D7365-09a	

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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: A2K0622 - 12 27 22 1313
---	---	---

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TPI-111622-96 (A2K0622-07)				Matrix: Water				
Batch: 22K0665								
Total Suspended Solids	392	5.00	5.00	mg/L	1	11/17/22 09:52	SM 2540 D	
GACF1-111622-96 (A2K0622-11)				Matrix: Water				
Batch: 22K0665								
Total Suspended Solids	ND	5.00	5.00	mg/L	1	11/17/22 09:52	SM 2540 D	SL-1
GACF2-111622-96 (A2K0622-12)				Matrix: Water				
Batch: 22K0665								
Total Suspended Solids	ND	5.00	5.00	mg/L	1	11/17/22 09:52	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. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
---	---	---

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 22K0717 - EPA 5030C						Water						
Blank (22K0717-BLK1)			Prepared: 11/18/22 08:52 Analyzed: 11/18/22 12:53									
<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	5.00	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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0717 - EPA 5030C						Water						
Blank (22K0717-BLK1)			Prepared: 11/18/22 08:52 Analyzed: 11/18/22 12:53									
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	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 110 % Limits: 80-120 % Dilution: 1x

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
---	---	---

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 22K0717 - EPA 5030C						Water						
Blank (22K0717-BLK1)						Prepared: 11/18/22 08:52 Analyzed: 11/18/22 12:53						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (22K0717-BS1)						Prepared: 11/18/22 08:52 Analyzed: 11/18/22 11:59						
EPA 8260D												
Acetone	38.2	10.0	20.0	ug/L	1	40.0	---	96	80-120%	---	---	
Acrylonitrile	22.6	1.00	2.00	ug/L	1	20.0	---	113	80-120%	---	---	
Benzene	22.9	0.100	0.200	ug/L	1	20.0	---	114	80-120%	---	---	
Bromobenzene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Bromochloromethane	24.4	0.500	1.00	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
Bromodichloromethane	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Bromoform	17.8	0.500	1.00	ug/L	1	20.0	---	89	80-120%	---	---	
Bromomethane	30.9	5.00	5.00	ug/L	1	20.0	---	154	80-120%	---	---	Q-56
2-Butanone (MEK)	44.4	5.00	10.0	ug/L	1	40.0	---	111	80-120%	---	---	
n-Butylbenzene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
sec-Butylbenzene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
tert-Butylbenzene	18.9	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Carbon disulfide	22.0	5.00	10.0	ug/L	1	20.0	---	110	80-120%	---	---	
Carbon tetrachloride	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Chlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Chloroethane	26.9	5.00	5.00	ug/L	1	20.0	---	135	80-120%	---	---	Q-56
Chloroform	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Chloromethane	25.4	2.50	5.00	ug/L	1	20.0	---	127	80-120%	---	---	Q-56
2-Chlorotoluene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
4-Chlorotoluene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Dibromochloromethane	18.2	0.500	1.00	ug/L	1	20.0	---	91	80-120%	---	---	
1,2-Dibromo-3-chloropropane	14.7	5.00	5.00	ug/L	1	20.0	---	73	80-120%	---	---	Q-55
1,2-Dibromoethane (EDB)	18.7	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Dibromomethane	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2-Dichlorobenzene	19.0	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
1,3-Dichlorobenzene	19.9	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,4-Dichlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Dichlorodifluoromethane	21.9	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,1-Dichloroethane	22.5	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	

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ANALYTICAL REPORT

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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 22K0717 - EPA 5030C						Water						
LCS (22K0717-BS1)			Prepared: 11/18/22 08:52 Analyzed: 11/18/22 11:59									
1,2-Dichloroethane (EDC)	21.9	0.200	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
1,1-Dichloroethene	24.2	0.200	0.400	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	22.4	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
trans-1,2-Dichloroethene	21.9	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
1,2-Dichloropropane	23.4	0.250	0.500	ug/L	1	20.0	---	117	80-120%	---	---	
1,3-Dichloropropane	19.9	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
2,2-Dichloropropane	19.7	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,1-Dichloropropene	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
cis-1,3-Dichloropropene	19.3	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
trans-1,3-Dichloropropene	18.9	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Ethylbenzene	20.1	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Hexachlorobutadiene	17.1	2.50	5.00	ug/L	1	20.0	---	86	80-120%	---	---	
2-Hexanone	36.7	5.00	10.0	ug/L	1	40.0	---	92	80-120%	---	---	
Isopropylbenzene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
4-Isopropyltoluene	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Methylene chloride	24.2	5.00	10.0	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
4-Methyl-2-pentanone (MiBK)	38.3	5.00	10.0	ug/L	1	40.0	---	96	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	19.3	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Naphthalene	16.0	1.00	2.00	ug/L	1	20.0	---	80	80-120%	---	---	
n-Propylbenzene	20.5	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Styrene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,1,1,2-Tetrachloroethane	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.5	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Tetrachloroethene (PCE)	19.5	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
Toluene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2,3-Trichlorobenzene	17.5	1.00	2.00	ug/L	1	20.0	---	87	80-120%	---	---	
1,2,4-Trichlorobenzene	16.5	1.00	2.00	ug/L	1	20.0	---	82	80-120%	---	---	
1,1,1-Trichloroethane	20.7	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
1,1,2-Trichloroethane	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Trichloroethene (TCE)	20.6	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
Trichlorofluoromethane	24.1	1.00	2.00	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
1,2,3-Trichloropropane	19.7	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2,4-Trimethylbenzene	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,3,5-Trimethylbenzene	20.5	0.500	1.00	ug/L	1	20.0	---	103	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	A2K0622 - 12 27 22 1313

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 22K0717 - EPA 5030C						Water						
LCS (22K0717-BS1)			Prepared: 11/18/22 08:52 Analyzed: 11/18/22 11:59									
Vinyl chloride	26.5	0.200	0.400	ug/L	1	20.0	---	132	80-120%	---	---	Q-56
m,p-Xylene	42.2	0.500	1.00	ug/L	1	40.0	---	106	80-120%	---	---	
o-Xylene	18.9	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</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>90 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22K0717-DUP1)												
Prepared: 11/18/22 08:52 Analyzed: 11/18/22 15:51												
QC Source Sample: Non-SDG (A2K0687-02)												
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	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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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 22K0717 - EPA 5030C						Water						
Duplicate (22K0717-DUP1)			Prepared: 11/18/22 08:52 Analyzed: 11/18/22 15:51									
QC Source Sample: Non-SDG (A2K0687-02)												
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	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	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)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0717 - EPA 5030C						Water						
Duplicate (22K0717-DUP1)			Prepared: 11/18/22 08:52 Analyzed: 11/18/22 15:51									
QC Source Sample: Non-SDG (A2K0687-02)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 113 %</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>92 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (22K0717-MS1)						Prepared: 11/18/22 08:52 Analyzed: 11/18/22 14:45						COMP
QC Source Sample: Non-SDG (A2K0615-08)												
EPA 8260D												
Acetone	46.4	10.0	20.0	ug/L	1	40.0	ND	116	39-160%	---	---	
Acrylonitrile	23.9	1.00	2.00	ug/L	1	20.0	ND	120	63-135%	---	---	
Benzene	24.4	0.100	0.200	ug/L	1	20.0	ND	122	79-120%	---	---	Q-01
Bromobenzene	18.7	0.250	0.500	ug/L	1	20.0	ND	93	80-120%	---	---	
Bromochloromethane	26.0	0.500	1.00	ug/L	1	20.0	ND	130	78-123%	---	---	Q-54c
Bromodichloromethane	29.9	0.500	1.00	ug/L	1	20.0	7.70	111	79-125%	---	---	
Bromoform	18.0	0.500	1.00	ug/L	1	20.0	ND	90	66-130%	---	---	
Bromomethane	31.7	5.00	5.00	ug/L	1	20.0	ND	159	53-141%	---	---	Q-54e
2-Butanone (MEK)	46.4	5.00	10.0	ug/L	1	40.0	ND	116	56-143%	---	---	
n-Butylbenzene	20.7	0.500	1.00	ug/L	1	20.0	ND	103	75-128%	---	---	
sec-Butylbenzene	21.3	0.500	1.00	ug/L	1	20.0	ND	107	77-126%	---	---	
tert-Butylbenzene	19.5	0.500	1.00	ug/L	1	20.0	ND	98	78-124%	---	---	
Carbon disulfide	24.2	5.00	10.0	ug/L	1	20.0	ND	121	64-133%	---	---	
Carbon tetrachloride	24.4	0.500	1.00	ug/L	1	20.0	ND	122	72-136%	---	---	
Chlorobenzene	21.2	0.250	0.500	ug/L	1	20.0	ND	106	80-120%	---	---	
Chloroethane	28.7	5.00	5.00	ug/L	1	20.0	ND	143	60-138%	---	---	Q-54g
Chloroform	58.5	0.500	1.00	ug/L	1	20.0	37.0	108	79-124%	---	---	
Chloromethane	27.5	2.50	5.00	ug/L	1	20.0	ND	137	50-139%	---	---	Q-54i

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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: A2K0622 - 12 27 22 1313
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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 22K0717 - EPA 5030C						Water							
Matrix Spike (22K0717-MS1)			Prepared: 11/18/22 08:52 Analyzed: 11/18/22 14:45						COMP				
QC Source Sample: Non-SDG (A2K0615-08)													
2-Chlorotoluene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	79-122%	---	---		
4-Chlorotoluene	19.7	0.500	1.00	ug/L	1	20.0	ND	98	78-122%	---	---		
Dibromochloromethane	20.0	0.500	1.00	ug/L	1	20.0	1.38	93	74-126%	---	---		
1,2-Dibromo-3-chloropropane	14.2	5.00	5.00	ug/L	1	20.0	ND	71	62-128%	---	---	Q-54I	
1,2-Dibromoethane (EDB)	18.8	0.250	0.500	ug/L	1	20.0	ND	94	77-121%	---	---		
Dibromomethane	22.8	0.500	1.00	ug/L	1	20.0	ND	114	79-123%	---	---		
1,2-Dichlorobenzene	19.3	0.250	0.500	ug/L	1	20.0	ND	96	80-120%	---	---		
1,3-Dichlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---		
1,4-Dichlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	ND	102	79-120%	---	---		
Dichlorodifluoromethane	24.2	0.500	1.00	ug/L	1	20.0	ND	121	32-152%	---	---		
1,1-Dichloroethane	24.4	0.200	0.400	ug/L	1	20.0	ND	122	77-125%	---	---		
1,2-Dichloroethane (EDC)	23.5	0.200	0.400	ug/L	1	20.0	ND	117	73-128%	---	---		
1,1-Dichloroethene	26.7	0.200	0.400	ug/L	1	20.0	ND	133	71-131%	---	---	Q-54	
cis-1,2-Dichloroethene	23.6	0.200	0.400	ug/L	1	20.0	ND	118	78-123%	---	---		
trans-1,2-Dichloroethene	24.1	0.200	0.400	ug/L	1	20.0	ND	120	75-124%	---	---		
1,2-Dichloropropane	25.0	0.250	0.500	ug/L	1	20.0	ND	125	78-122%	---	---	Q-01	
1,3-Dichloropropane	20.0	0.500	1.00	ug/L	1	20.0	ND	100	80-120%	---	---		
2,2-Dichloropropane	20.5	0.500	1.00	ug/L	1	20.0	ND	103	60-139%	---	---		
1,1-Dichloropropene	24.7	0.500	1.00	ug/L	1	20.0	ND	123	79-125%	---	---		
cis-1,3-Dichloropropene	17.8	0.500	1.00	ug/L	1	20.0	ND	89	75-124%	---	---		
trans-1,3-Dichloropropene	19.0	0.500	1.00	ug/L	1	20.0	ND	95	73-127%	---	---		
Ethylbenzene	20.9	0.250	0.500	ug/L	1	20.0	ND	104	79-121%	---	---		
Hexachlorobutadiene	17.9	2.50	5.00	ug/L	1	20.0	ND	89	66-134%	---	---		
2-Hexanone	36.7	5.00	10.0	ug/L	1	40.0	ND	92	57-139%	---	---		
Isopropylbenzene	19.9	0.500	1.00	ug/L	1	20.0	ND	99	72-131%	---	---		
4-Isopropyltoluene	20.0	0.500	1.00	ug/L	1	20.0	ND	100	77-127%	---	---		
Methylene chloride	26.7	5.00	10.0	ug/L	1	20.0	ND	134	74-124%	---	---	Q-54	
4-Methyl-2-pentanone (MiBK)	39.1	5.00	10.0	ug/L	1	40.0	ND	98	67-130%	---	---		
Methyl tert-butyl ether (MTBE)	20.4	0.500	1.00	ug/L	1	20.0	ND	102	71-124%	---	---		
Naphthalene	15.8	1.00	2.00	ug/L	1	20.0	ND	79	61-128%	---	---		
n-Propylbenzene	21.2	0.250	0.500	ug/L	1	20.0	ND	106	76-126%	---	---		
Styrene	11.9	0.500	1.00	ug/L	1	20.0	ND	59	78-123%	---	---	Q-01	
1,1,1,2-Tetrachloroethane	19.0	0.200	0.400	ug/L	1	20.0	ND	95	78-124%	---	---		

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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: A2K0622 - 12 27 22 1313
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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 22K0717 - EPA 5030C						Water						
Matrix Spike (22K0717-MS1)						Prepared: 11/18/22 08:52 Analyzed: 11/18/22 14:45						COMP
QC Source Sample: Non-SDG (A2K0615-08)												
1,1,2,2-Tetrachloroethane	20.8	0.250	0.500	ug/L	1	20.0	ND	104	71-121%	---	---	
Tetrachloroethene (PCE)	20.8	0.200	0.400	ug/L	1	20.0	ND	104	74-129%	---	---	
Toluene	21.5	0.500	1.00	ug/L	1	20.0	ND	108	80-121%	---	---	
1,2,3-Trichlorobenzene	17.4	1.00	2.00	ug/L	1	20.0	ND	87	69-129%	---	---	
1,2,4-Trichlorobenzene	16.0	1.00	2.00	ug/L	1	20.0	ND	80	69-130%	---	---	
1,1,1-Trichloroethane	22.9	0.200	0.400	ug/L	1	20.0	ND	114	74-131%	---	---	
1,1,2-Trichloroethane	20.7	0.250	0.500	ug/L	1	20.0	ND	103	80-120%	---	---	
Trichloroethene (TCE)	22.3	0.200	0.400	ug/L	1	20.0	ND	111	79-123%	---	---	
Trichlorofluoromethane	28.1	1.00	2.00	ug/L	1	20.0	ND	140	65-141%	---	---	Q-54
1,2,3-Trichloropropane	19.8	0.500	1.00	ug/L	1	20.0	ND	99	73-122%	---	---	
1,2,4-Trimethylbenzene	20.7	0.500	1.00	ug/L	1	20.0	ND	103	76-124%	---	---	
1,3,5-Trimethylbenzene	20.6	0.500	1.00	ug/L	1	20.0	ND	103	75-124%	---	---	
Vinyl chloride	27.9	0.200	0.400	ug/L	1	20.0	ND	140	58-137%	---	---	Q-54a
m,p-Xylene	43.8	0.500	1.00	ug/L	1	40.0	ND	109	80-121%	---	---	
o-Xylene	19.3	0.250	0.500	ug/L	1	20.0	ND	96	78-122%	---	---	
<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>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>88 %</i>		<i>80-120 %</i>		<i>"</i>						

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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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 22K0747 - EPA 5030C						Water						
Blank (22K0747-BLK1)			Prepared: 11/18/22 13:49 Analyzed: 11/18/22 17:01									
<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	---	---	---	---	---	---	

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.	Project: Gasco -- Monthly (2022)	
2749 Lockport Road	Project Number: 000029-02-20-2	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2K0622 - 12 27 22 1313

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 22K0747 - EPA 5030C						Water						
Blank (22K0747-BLK1)			Prepared: 11/18/22 13:49 Analyzed: 11/18/22 17:01									
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	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 111 % Limits: 80-120 % Dilution: 1x

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323

ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
---	---	---

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 22K0747 - EPA 5030C						Water						
Blank (22K0747-BLK1)						Prepared: 11/18/22 13:49 Analyzed: 11/18/22 17:01						
<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>98 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (22K0747-BS1) Prepared: 11/18/22 13:49 Analyzed: 11/18/22 16:19

<u>EPA 8260D</u>												
Acetone	36.0	10.0	20.0	ug/L	1	40.0	---	90	80-120%	---	---	
Acrylonitrile	21.2	1.00	2.00	ug/L	1	20.0	---	106	80-120%	---	---	
Benzene	21.9	0.100	0.200	ug/L	1	20.0	---	110	80-120%	---	---	
Bromobenzene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Bromochloromethane	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Bromodichloromethane	19.9	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Bromoform	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Bromomethane	18.6	5.00	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
2-Butanone (MEK)	40.3	5.00	10.0	ug/L	1	40.0	---	101	80-120%	---	---	
n-Butylbenzene	20.9	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
sec-Butylbenzene	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
tert-Butylbenzene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Carbon disulfide	20.4	5.00	10.0	ug/L	1	20.0	---	102	80-120%	---	---	
Carbon tetrachloride	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chlorobenzene	19.0	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Chloroethane	21.9	5.00	5.00	ug/L	1	20.0	---	109	80-120%	---	---	
Chloroform	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Chloromethane	18.5	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
2-Chlorotoluene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
4-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Dibromochloromethane	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2-Dibromo-3-chloropropane	17.6	2.50	5.00	ug/L	1	20.0	---	88	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.7	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Dibromomethane	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2-Dichlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,3-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
1,4-Dichlorobenzene	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Dichlorodifluoromethane	16.8	0.500	1.00	ug/L	1	20.0	---	84	80-120%	---	---	
1,1-Dichloroethane	20.6	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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0747 - EPA 5030C						Water						
LCS (22K0747-BS1)			Prepared: 11/18/22 13:49 Analyzed: 11/18/22 16:19									
1,2-Dichloroethane (EDC)	18.4	0.200	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
1,1-Dichloroethene	20.7	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
cis-1,2-Dichloroethene	20.4	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
trans-1,2-Dichloroethene	20.1	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dichloropropane	21.5	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
1,3-Dichloropropane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
2,2-Dichloropropane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,1-Dichloropropene	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
cis-1,3-Dichloropropene	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
trans-1,3-Dichloropropene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Ethylbenzene	19.9	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Hexachlorobutadiene	17.5	2.50	5.00	ug/L	1	20.0	---	87	80-120%	---	---	
2-Hexanone	37.8	5.00	10.0	ug/L	1	40.0	---	94	80-120%	---	---	
Isopropylbenzene	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Isopropyltoluene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Methylene chloride	20.8	5.00	10.0	ug/L	1	20.0	---	104	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	40.2	5.00	10.0	ug/L	1	40.0	---	100	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Naphthalene	17.9	1.00	2.00	ug/L	1	20.0	---	89	80-120%	---	---	
n-Propylbenzene	20.7	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Styrene	21.5	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,1,1,2-Tetrachloroethane	18.9	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Tetrachloroethene (PCE)	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
Toluene	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	20.3	1.00	2.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2,4-Trichlorobenzene	18.1	1.00	2.00	ug/L	1	20.0	---	91	80-120%	---	---	
1,1,1-Trichloroethane	19.5	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,1,2-Trichloroethane	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Trichloroethene (TCE)	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
Trichlorofluoromethane	20.8	1.00	2.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2,3-Trichloropropane	18.7	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,4-Trimethylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,3,5-Trimethylbenzene	21.9	0.500	1.00	ug/L	1	20.0	---	110	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	A2K0622 - 12 27 22 1313

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 22K0747 - EPA 5030C						Water						
LCS (22K0747-BS1)			Prepared: 11/18/22 13:49 Analyzed: 11/18/22 16:19									
Vinyl chloride	20.3	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
m,p-Xylene	41.8	0.500	1.00	ug/L	1	40.0	---	104	80-120%	---	---	
o-Xylene	19.5	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22K0747-DUP1)		Prepared: 11/18/22 13:49 Analyzed: 11/18/22 19:51										
QC Source Sample: Non-SDG (A2K0673-03)												
Acetone	ND	400	400	ug/L	1	---	ND	---	---	---	30%	R-02
Acrylonitrile	ND	31.0	31.0	ug/L	1	---	ND	---	---	---	30%	R-02
Benzene	7.05	0.100	0.200	ug/L	1	---	6.73	---	---	5	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)	132	132	132	ug/L	1	---	ND	---	---	---	30%	R-02
n-Butylbenzene	26.7	0.500	1.00	ug/L	1	---	27.1	---	---	2	30%	
sec-Butylbenzene	15.1	0.500	1.00	ug/L	1	---	15.1	---	---	0.3	30%	
tert-Butylbenzene	1.78	0.500	1.00	ug/L	1	---	1.63	---	---	9	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	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	R-02
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	0.500	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: A2K0622 - 12 27 22 1313
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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 22K0747 - EPA 5030C						Water						
Duplicate (22K0747-DUP1)			Prepared: 11/18/22 13:49 Analyzed: 11/18/22 19:51									
QC Source Sample: Non-SDG (A2K0673-03)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	1.00	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	17.7	0.250	0.500	ug/L	1	---	17.5	---	---	0.9	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	66.6	0.500	1.00	ug/L	1	---	66.7	---	---	0.09	30%	
4-Isopropyltoluene	0.680	0.500	1.00	ug/L	1	---	0.710	---	---	4	30%	J
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	161	1.00	2.00	ug/L	1	---	164	---	---	2	30%	
n-Propylbenzene	179	0.250	0.500	ug/L	1	---	183	---	---	2	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	3.01	0.500	1.00	ug/L	1	---	2.98	---	---	1	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	6.00	6.00	ug/L	1	---	ND	---	---	---	30%	R-02

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0747 - EPA 5030C						Water						
Duplicate (22K0747-DUP1)			Prepared: 11/18/22 13:49 Analyzed: 11/18/22 19:51									
QC Source Sample: Non-SDG (A2K0673-03)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	4.69	0.500	1.00	ug/L	1	---	4.62	---	---	2	30%	
o-Xylene	0.790	0.250	0.500	ug/L	1	---	0.820	---	---	4	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 122 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>		S-06				
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (22K0747-MS1)						Prepared: 11/18/22 13:49 Analyzed: 11/19/22 00:04						
QC Source Sample: Non-SDG (A2K0695-01)												
EPA 8260D												
Acetone	404	100	200	ug/L	10	400	ND	101	39-160%	---	---	
Acrylonitrile	232	10.0	20.0	ug/L	10	200	ND	116	63-135%	---	---	
Benzene	257	1.00	2.00	ug/L	10	200	ND	129	79-120%	---	---	Q-01
Bromobenzene	200	2.50	5.00	ug/L	10	200	ND	100	80-120%	---	---	
Bromochloromethane	226	5.00	10.0	ug/L	10	200	ND	113	78-123%	---	---	
Bromodichloromethane	204	5.00	10.0	ug/L	10	200	ND	102	79-125%	---	---	
Bromoform	191	5.00	10.0	ug/L	10	200	ND	95	66-130%	---	---	
Bromomethane	191	50.0	50.0	ug/L	10	200	ND	95	53-141%	---	---	
2-Butanone (MEK)	449	50.0	100	ug/L	10	400	ND	112	56-143%	---	---	
n-Butylbenzene	229	5.00	10.0	ug/L	10	200	ND	114	75-128%	---	---	
sec-Butylbenzene	248	5.00	10.0	ug/L	10	200	ND	124	77-126%	---	---	
tert-Butylbenzene	221	5.00	10.0	ug/L	10	200	ND	110	78-124%	---	---	
Carbon disulfide	254	50.0	100	ug/L	10	200	ND	127	64-133%	---	---	
Carbon tetrachloride	220	5.00	10.0	ug/L	10	200	ND	110	72-136%	---	---	
Chlorobenzene	203	2.50	5.00	ug/L	10	200	ND	101	80-120%	---	---	
Chloroethane	231	50.0	50.0	ug/L	10	200	ND	116	60-138%	---	---	
Chloroform	216	5.00	10.0	ug/L	10	200	ND	108	79-124%	---	---	
Chloromethane	229	25.0	50.0	ug/L	10	200	ND	114	50-139%	---	---	

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0747 - EPA 5030C						Water						
Matrix Spike (22K0747-MS1)			Prepared: 11/18/22 13:49 Analyzed: 11/19/22 00:04									
QC Source Sample: Non-SDG (A2K0695-01)												
2-Chlorotoluene	220	5.00	10.0	ug/L	10	200	ND	110	79-122%	---	---	
4-Chlorotoluene	218	5.00	10.0	ug/L	10	200	ND	109	78-122%	---	---	
Dibromochloromethane	181	5.00	10.0	ug/L	10	200	ND	91	74-126%	---	---	
1,2-Dibromo-3-chloropropane	180	25.0	50.0	ug/L	10	200	ND	90	62-128%	---	---	
1,2-Dibromoethane (EDB)	201	2.50	5.00	ug/L	10	200	ND	101	77-121%	---	---	
Dibromomethane	222	5.00	10.0	ug/L	10	200	ND	111	79-123%	---	---	
1,2-Dichlorobenzene	206	2.50	5.00	ug/L	10	200	ND	103	80-120%	---	---	
1,3-Dichlorobenzene	212	2.50	5.00	ug/L	10	200	ND	106	80-120%	---	---	
1,4-Dichlorobenzene	199	2.50	5.00	ug/L	10	200	ND	100	79-120%	---	---	
Dichlorodifluoromethane	208	5.00	10.0	ug/L	10	200	ND	104	32-152%	---	---	
1,1-Dichloroethane	228	2.00	4.00	ug/L	10	200	ND	114	77-125%	---	---	
1,2-Dichloroethane (EDC)	182	2.00	4.00	ug/L	10	200	ND	91	73-128%	---	---	
1,1-Dichloroethene	247	2.00	4.00	ug/L	10	200	ND	124	71-131%	---	---	
cis-1,2-Dichloroethene	230	2.00	4.00	ug/L	10	200	ND	115	78-123%	---	---	
trans-1,2-Dichloroethene	239	2.00	4.00	ug/L	10	200	ND	119	75-124%	---	---	
1,2-Dichloropropane	235	2.50	5.00	ug/L	10	200	ND	118	78-122%	---	---	
1,3-Dichloropropane	202	5.00	10.0	ug/L	10	200	ND	101	80-120%	---	---	
2,2-Dichloropropane	196	5.00	10.0	ug/L	10	200	ND	98	60-139%	---	---	
1,1-Dichloropropene	255	5.00	10.0	ug/L	10	200	ND	127	79-125%	---	---	Q-01
cis-1,3-Dichloropropene	180	5.00	10.0	ug/L	10	200	ND	90	75-124%	---	---	
trans-1,3-Dichloropropene	192	5.00	10.0	ug/L	10	200	ND	96	73-127%	---	---	
Ethylbenzene	212	2.50	5.00	ug/L	10	200	ND	106	79-121%	---	---	
Hexachlorobutadiene	194	25.0	50.0	ug/L	10	200	ND	97	66-134%	---	---	
2-Hexanone	385	50.0	100	ug/L	10	400	ND	96	57-139%	---	---	
Isopropylbenzene	227	5.00	10.0	ug/L	10	200	ND	114	72-131%	---	---	
4-Isopropyltoluene	235	5.00	10.0	ug/L	10	200	ND	117	77-127%	---	---	
Methylene chloride	244	50.0	100	ug/L	10	200	ND	122	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	393	50.0	100	ug/L	10	400	ND	98	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	226	5.00	10.0	ug/L	10	200	ND	113	71-124%	---	---	
Naphthalene	198	10.0	20.0	ug/L	10	200	ND	99	61-128%	---	---	
n-Propylbenzene	226	2.50	5.00	ug/L	10	200	ND	113	76-126%	---	---	
Styrene	222	5.00	10.0	ug/L	10	200	ND	111	78-123%	---	---	
1,1,1,2-Tetrachloroethane	188	2.00	4.00	ug/L	10	200	ND	94	78-124%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
---	---	---

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 22K0747 - EPA 5030C						Water						
Matrix Spike (22K0747-MS1)			Prepared: 11/18/22 13:49 Analyzed: 11/19/22 00:04									
QC Source Sample: Non-SDG (A2K0695-01)												
1,1,2,2-Tetrachloroethane	211	2.50	5.00	ug/L	10	200	ND	106	71-121%	---	---	
Tetrachloroethene (PCE)	205	2.00	4.00	ug/L	10	200	ND	103	74-129%	---	---	
Toluene	268	5.00	10.0	ug/L	10	200	74.2	97	80-121%	---	---	
1,2,3-Trichlorobenzene	218	10.0	20.0	ug/L	10	200	ND	109	69-129%	---	---	
1,2,4-Trichlorobenzene	202	10.0	20.0	ug/L	10	200	ND	101	69-130%	---	---	
1,1,1-Trichloroethane	212	2.00	4.00	ug/L	10	200	ND	106	74-131%	---	---	
1,1,2-Trichloroethane	201	2.50	5.00	ug/L	10	200	ND	101	80-120%	---	---	
Trichloroethene (TCE)	243	2.00	4.00	ug/L	10	200	ND	121	79-123%	---	---	
Trichlorofluoromethane	221	10.0	20.0	ug/L	10	200	ND	110	65-141%	---	---	
1,2,3-Trichloropropane	184	5.00	10.0	ug/L	10	200	ND	92	73-122%	---	---	
1,2,4-Trimethylbenzene	235	5.00	10.0	ug/L	10	200	ND	118	76-124%	---	---	
1,3,5-Trimethylbenzene	235	5.00	10.0	ug/L	10	200	ND	118	75-124%	---	---	
Vinyl chloride	255	2.00	4.00	ug/L	10	200	ND	128	58-137%	---	---	
m,p-Xylene	447	5.00	10.0	ug/L	10	400	6.70	110	80-121%	---	---	
o-Xylene	210	2.50	5.00	ug/L	10	200	3.20	104	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 115 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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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 22K0833 - EPA 5030C						Water						
Blank (22K0833-BLK1)			Prepared: 11/22/22 08:12 Analyzed: 11/22/22 22:26									
<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

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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	A2K0622 - 12 27 22 1313

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 22K0833 - EPA 5030C						Water						
Blank (22K0833-BLK1)			Prepared: 11/22/22 08:12 Analyzed: 11/22/22 22:26									
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	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 119 % Limits: 80-120 % Dilution: 1x

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Darwin Thomas, Business Development Director

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0833 - EPA 5030C						Water						
Blank (22K0833-BLK1)						Prepared: 11/22/22 08:12 Analyzed: 11/22/22 22:26						
<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>102 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (22K0833-BS1)						Prepared: 11/22/22 08:12 Analyzed: 11/22/22 21:43						
EPA 8260D												
Acetone	43.1	10.0	20.0	ug/L	1	40.0	---	108	80-120%	---	---	
Acrylonitrile	25.4	1.00	2.00	ug/L	1	20.0	---	127	80-120%	---	---	Q-56
Benzene	26.6	0.100	0.200	ug/L	1	20.0	---	133	80-120%	---	---	Q-56
Bromobenzene	20.5	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Bromochloromethane	25.6	0.500	1.00	ug/L	1	20.0	---	128	80-120%	---	---	Q-56
Bromodichloromethane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromoform	20.9	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Bromomethane	20.6	5.00	5.00	ug/L	1	20.0	---	103	80-120%	---	---	
2-Butanone (MEK)	48.5	5.00	10.0	ug/L	1	40.0	---	121	80-120%	---	---	Q-56
n-Butylbenzene	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
sec-Butylbenzene	23.9	0.500	1.00	ug/L	1	20.0	---	119	80-120%	---	---	
tert-Butylbenzene	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Carbon disulfide	23.4	5.00	10.0	ug/L	1	20.0	---	117	80-120%	---	---	
Carbon tetrachloride	23.4	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
Chlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Chloroethane	23.6	5.00	5.00	ug/L	1	20.0	---	118	80-120%	---	---	
Chloroform	23.3	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
Chloromethane	21.0	2.50	5.00	ug/L	1	20.0	---	105	80-120%	---	---	
2-Chlorotoluene	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
4-Chlorotoluene	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Dibromochloromethane	19.7	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.9	2.50	5.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2-Dibromoethane (EDB)	21.5	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Dibromomethane	24.8	0.500	1.00	ug/L	1	20.0	---	124	80-120%	---	---	Q-56
1,2-Dichlorobenzene	21.5	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
1,3-Dichlorobenzene	21.9	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
1,4-Dichlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Dichlorodifluoromethane	17.0	0.500	1.00	ug/L	1	20.0	---	85	80-120%	---	---	
1,1-Dichloroethane	23.9	0.200	0.400	ug/L	1	20.0	---	120	80-120%	---	---	

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0833 - EPA 5030C						Water						
LCS (22K0833-BS1)			Prepared: 11/22/22 08:12 Analyzed: 11/22/22 21:43									
1,2-Dichloroethane (EDC)	20.6	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
1,1-Dichloroethene	24.5	0.200	0.400	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	23.7	0.200	0.400	ug/L	1	20.0	---	119	80-120%	---	---	
trans-1,2-Dichloroethene	24.6	0.200	0.400	ug/L	1	20.0	---	123	80-120%	---	---	Q-56
1,2-Dichloropropane	25.3	0.250	0.500	ug/L	1	20.0	---	126	80-120%	---	---	Q-56
1,3-Dichloropropane	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
2,2-Dichloropropane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,1-Dichloropropene	25.0	0.500	1.00	ug/L	1	20.0	---	125	80-120%	---	---	Q-56
cis-1,3-Dichloropropene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
trans-1,3-Dichloropropene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Ethylbenzene	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Hexachlorobutadiene	18.5	2.50	5.00	ug/L	1	20.0	---	92	80-120%	---	---	
2-Hexanone	41.9	5.00	10.0	ug/L	1	40.0	---	105	80-120%	---	---	
Isopropylbenzene	23.1	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
4-Isopropyltoluene	23.0	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Methylene chloride	25.7	5.00	10.0	ug/L	1	20.0	---	129	80-120%	---	---	Q-56
4-Methyl-2-pentanone (MiBK)	43.3	5.00	10.0	ug/L	1	40.0	---	108	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	23.8	0.500	1.00	ug/L	1	20.0	---	119	80-120%	---	---	
Naphthalene	19.5	1.00	2.00	ug/L	1	20.0	---	97	80-120%	---	---	
n-Propylbenzene	22.2	0.250	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
Styrene	23.2	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
1,1,1,2-Tetrachloroethane	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,1,2,2-Tetrachloroethane	22.2	0.250	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
Tetrachloroethene (PCE)	20.3	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
Toluene	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2,3-Trichlorobenzene	21.7	1.00	2.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,2,4-Trichlorobenzene	19.9	1.00	2.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,1,1-Trichloroethane	22.6	0.200	0.400	ug/L	1	20.0	---	113	80-120%	---	---	
1,1,2-Trichloroethane	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Trichloroethene (TCE)	23.7	0.200	0.400	ug/L	1	20.0	---	119	80-120%	---	---	
Trichlorofluoromethane	23.4	1.00	2.00	ug/L	1	20.0	---	117	80-120%	---	---	
1,2,3-Trichloropropane	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2,4-Trimethylbenzene	23.3	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
1,3,5-Trimethylbenzene	23.5	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0833 - EPA 5030C						Water						
LCS (22K0833-BS1)			Prepared: 11/22/22 08:12			Analyzed: 11/22/22 21:43						
Vinyl chloride	23.2	0.200	0.400	ug/L	1	20.0	---	116	80-120%	---	---	
m,p-Xylene	44.8	0.500	1.00	ug/L	1	40.0	---	112	80-120%	---	---	
o-Xylene	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 113 %</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>98 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22K0833-DUP1)		Prepared: 11/22/22 12:12		Analyzed: 11/23/22 02:00								
QC Source Sample: Non-SDG (A2K0740-01)												
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	0.900	0.500	1.00	ug/L	1	---	0.910	---	---	1	30%	J
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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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0833 - EPA 5030C						Water						
Duplicate (22K0833-DUP1)			Prepared: 11/22/22 12:12 Analyzed: 11/23/22 02:00									
QC Source Sample: Non-SDG (A2K0740-01)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	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)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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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 22K0833 - EPA 5030C						Water						
Duplicate (22K0833-DUP1)			Prepared: 11/22/22 12:12 Analyzed: 11/23/22 02:00									
QC Source Sample: Non-SDG (A2K0740-01)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 118 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (22K0833-MS1)			Prepared: 11/22/22 12:12 Analyzed: 11/23/22 06:37									
QC Source Sample: Non-SDG (A2K0744-05)												
EPA 8260D												
Acetone	44.6	10.0	20.0	ug/L	1	40.0	ND	111	39-160%	---	---	
Acrylonitrile	23.4	1.00	2.00	ug/L	1	20.0	ND	117	63-135%	---	---	Q-54i
Benzene	25.7	0.100	0.200	ug/L	1	20.0	ND	128	79-120%	---	---	Q-54b
Bromobenzene	19.7	0.250	0.500	ug/L	1	20.0	ND	98	80-120%	---	---	
Bromochloromethane	23.4	0.500	1.00	ug/L	1	20.0	ND	117	78-123%	---	---	Q-54j
Bromodichloromethane	21.5	0.500	1.00	ug/L	1	20.0	ND	108	79-125%	---	---	
Bromoform	20.0	0.500	1.00	ug/L	1	20.0	ND	100	66-130%	---	---	
Bromomethane	17.8	5.00	5.00	ug/L	1	20.0	ND	89	53-141%	---	---	
2-Butanone (MEK)	44.9	5.00	10.0	ug/L	1	40.0	ND	112	56-143%	---	---	Q-54
n-Butylbenzene	21.4	0.500	1.00	ug/L	1	20.0	ND	107	75-128%	---	---	
sec-Butylbenzene	23.6	0.500	1.00	ug/L	1	20.0	ND	118	77-126%	---	---	
tert-Butylbenzene	21.1	0.500	1.00	ug/L	1	20.0	ND	105	78-124%	---	---	
Carbon disulfide	24.2	5.00	10.0	ug/L	1	20.0	ND	121	64-133%	---	---	
Carbon tetrachloride	23.6	0.500	1.00	ug/L	1	20.0	ND	118	72-136%	---	---	
Chlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	
Chloroethane	25.4	5.00	5.00	ug/L	1	20.0	ND	127	60-138%	---	---	
Chloroform	22.6	0.500	1.00	ug/L	1	20.0	ND	113	79-124%	---	---	
Chloromethane	24.5	2.50	5.00	ug/L	1	20.0	ND	122	50-139%	---	---	

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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: A2K0622 - 12 27 22 1313
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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 22K0833 - EPA 5030C						Water						
Matrix Spike (22K0833-MS1)			Prepared: 11/22/22 12:12 Analyzed: 11/23/22 06:37									
QC Source Sample: Non-SDG (A2K0744-05)												
2-Chlorotoluene	21.5	0.500	1.00	ug/L	1	20.0	ND	107	79-122%	---	---	
4-Chlorotoluene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	78-122%	---	---	
Dibromochloromethane	19.1	0.500	1.00	ug/L	1	20.0	ND	95	74-126%	---	---	
1,2-Dibromo-3-chloropropane	18.0	2.50	5.00	ug/L	1	20.0	ND	90	62-128%	---	---	
1,2-Dibromoethane (EDB)	20.2	0.250	0.500	ug/L	1	20.0	ND	101	77-121%	---	---	
Dibromomethane	22.8	0.500	1.00	ug/L	1	20.0	ND	114	79-123%	---	---	Q-54f
1,2-Dichlorobenzene	20.5	0.250	0.500	ug/L	1	20.0	ND	102	80-120%	---	---	
1,3-Dichlorobenzene	21.0	0.250	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
1,4-Dichlorobenzene	19.8	0.250	0.500	ug/L	1	20.0	ND	99	79-120%	---	---	
Dichlorodifluoromethane	20.5	0.500	1.00	ug/L	1	20.0	ND	102	32-152%	---	---	
1,1-Dichloroethane	23.8	0.200	0.400	ug/L	1	20.0	ND	119	77-125%	---	---	
1,2-Dichloroethane (EDC)	19.7	0.200	0.400	ug/L	1	20.0	ND	99	73-128%	---	---	
1,1-Dichloroethene	25.5	0.200	0.400	ug/L	1	20.0	ND	128	71-131%	---	---	Q-54c
cis-1,2-Dichloroethene	22.4	0.200	0.400	ug/L	1	20.0	ND	112	78-123%	---	---	
trans-1,2-Dichloroethene	24.0	0.200	0.400	ug/L	1	20.0	ND	120	75-124%	---	---	Q-54d
1,2-Dichloropropane	23.6	0.250	0.500	ug/L	1	20.0	ND	118	78-122%	---	---	Q-54h
1,3-Dichloropropane	20.3	0.500	1.00	ug/L	1	20.0	ND	101	80-120%	---	---	
2,2-Dichloropropane	17.2	0.500	1.00	ug/L	1	20.0	ND	86	60-139%	---	---	
1,1-Dichloropropene	25.0	0.500	1.00	ug/L	1	20.0	ND	125	79-125%	---	---	Q-54g
cis-1,3-Dichloropropene	17.1	0.500	1.00	ug/L	1	20.0	ND	86	75-124%	---	---	
trans-1,3-Dichloropropene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	73-127%	---	---	
Ethylbenzene	21.4	0.250	0.500	ug/L	1	20.0	ND	107	79-121%	---	---	
Hexachlorobutadiene	17.5	2.50	5.00	ug/L	1	20.0	ND	87	66-134%	---	---	
2-Hexanone	37.8	5.00	10.0	ug/L	1	40.0	ND	95	57-139%	---	---	
Isopropylbenzene	22.5	0.500	1.00	ug/L	1	20.0	ND	113	72-131%	---	---	
4-Isopropyltoluene	22.4	0.500	1.00	ug/L	1	20.0	ND	112	77-127%	---	---	
Methylene chloride	23.4	5.00	10.0	ug/L	1	20.0	ND	117	74-124%	---	---	Q-54k
4-Methyl-2-pentanone (MiBK)	39.3	5.00	10.0	ug/L	1	40.0	ND	98	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	21.5	0.500	1.00	ug/L	1	20.0	ND	108	71-124%	---	---	
Naphthalene	17.8	1.00	2.00	ug/L	1	20.0	ND	89	61-128%	---	---	
n-Propylbenzene	21.7	0.250	0.500	ug/L	1	20.0	ND	109	76-126%	---	---	
Styrene	20.1	0.500	1.00	ug/L	1	20.0	ND	100	78-123%	---	---	
1,1,1,2-Tetrachloroethane	19.4	0.200	0.400	ug/L	1	20.0	ND	97	78-124%	---	---	

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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: A2K0622 - 12 27 22 1313
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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 22K0833 - EPA 5030C												
Water												
Matrix Spike (22K0833-MS1)			Prepared: 11/22/22 12:12 Analyzed: 11/23/22 06:37									
QC Source Sample: Non-SDG (A2K0744-05)												
1,1,2,2-Tetrachloroethane	20.8	0.250	0.500	ug/L	1	20.0	ND	104	71-121%	---	---	
Tetrachloroethene (PCE)	20.3	0.200	0.400	ug/L	1	20.0	ND	102	74-129%	---	---	
Toluene	19.9	0.500	1.00	ug/L	1	20.0	ND	99	80-121%	---	---	
1,2,3-Trichlorobenzene	20.8	1.00	2.00	ug/L	1	20.0	ND	104	69-129%	---	---	
1,2,4-Trichlorobenzene	18.5	1.00	2.00	ug/L	1	20.0	ND	93	69-130%	---	---	
1,1,1-Trichloroethane	22.7	0.200	0.400	ug/L	1	20.0	ND	114	74-131%	---	---	
1,1,2-Trichloroethane	20.8	0.250	0.500	ug/L	1	20.0	ND	104	80-120%	---	---	
Trichloroethene (TCE)	23.3	0.200	0.400	ug/L	1	20.0	ND	117	79-123%	---	---	
Trichlorofluoromethane	24.7	1.00	2.00	ug/L	1	20.0	ND	124	65-141%	---	---	
1,2,3-Trichloropropane	19.0	0.500	1.00	ug/L	1	20.0	ND	95	73-122%	---	---	
1,2,4-Trimethylbenzene	21.2	0.500	1.00	ug/L	1	20.0	ND	106	76-124%	---	---	
1,3,5-Trimethylbenzene	22.4	0.500	1.00	ug/L	1	20.0	ND	112	75-124%	---	---	
Vinyl chloride	25.4	0.200	0.400	ug/L	1	20.0	ND	127	58-137%	---	---	
m,p-Xylene	44.4	0.500	1.00	ug/L	1	40.0	ND	111	80-121%	---	---	
o-Xylene	20.4	0.250	0.500	ug/L	1	20.0	ND	102	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike Dup (22K0833-MSD1)			Prepared: 11/22/22 12:12 Analyzed: 11/23/22 06:58									
QC Source Sample: Non-SDG (A2K0744-05)												
Acetone	53.4	10.0	20.0	ug/L	1	40.0	ND	134	39-160%	18	30%	
Acrylonitrile	23.2	1.00	2.00	ug/L	1	20.0	ND	116	63-135%	1	30%	Q-54i
Benzene	24.9	0.100	0.200	ug/L	1	20.0	ND	124	79-120%	3	30%	Q-54b
Bromobenzene	19.5	0.250	0.500	ug/L	1	20.0	ND	98	80-120%	0.7	30%	
Bromochloromethane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	78-123%	4	30%	Q-54j
Bromodichloromethane	21.1	0.500	1.00	ug/L	1	20.0	ND	105	79-125%	2	30%	
Bromoform	19.4	0.500	1.00	ug/L	1	20.0	ND	97	66-130%	3	30%	
Bromomethane	19.3	5.00	5.00	ug/L	1	20.0	ND	96	53-141%	8	30%	
2-Butanone (MEK)	45.1	5.00	10.0	ug/L	1	40.0	ND	113	56-143%	0.4	30%	Q-54
n-Butylbenzene	21.2	0.500	1.00	ug/L	1	20.0	ND	106	75-128%	0.7	30%	
sec-Butylbenzene	23.4	0.500	1.00	ug/L	1	20.0	ND	117	77-126%	1	30%	
tert-Butylbenzene	21.1	0.500	1.00	ug/L	1	20.0	ND	106	78-124%	0.05	30%	

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0833 - EPA 5030C						Water						
Matrix Spike Dup (22K0833-MSD1)			Prepared: 11/22/22 12:12 Analyzed: 11/23/22 06:58									
QC Source Sample: Non-SDG (A2K0744-05)												
Carbon disulfide	24.7	5.00	10.0	ug/L	1	20.0	ND	123	64-133%	2	30%	
Carbon tetrachloride	23.2	0.500	1.00	ug/L	1	20.0	ND	116	72-136%	2	30%	
Chlorobenzene	19.9	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	1	30%	
Chloroethane	25.0	5.00	5.00	ug/L	1	20.0	ND	125	60-138%	1	30%	
Chloroform	22.0	0.500	1.00	ug/L	1	20.0	ND	110	79-124%	3	30%	
Chloromethane	25.6	2.50	5.00	ug/L	1	20.0	ND	128	50-139%	5	30%	
2-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	ND	105	79-122%	2	30%	
4-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	ND	105	78-122%	2	30%	
Dibromochloromethane	18.6	0.500	1.00	ug/L	1	20.0	ND	93	74-126%	2	30%	
1,2-Dibromo-3-chloropropane	17.6	2.50	5.00	ug/L	1	20.0	ND	88	62-128%	2	30%	
1,2-Dibromoethane (EDB)	19.6	0.250	0.500	ug/L	1	20.0	ND	98	77-121%	3	30%	
Dibromomethane	22.0	0.500	1.00	ug/L	1	20.0	ND	110	79-123%	4	30%	Q-54f
1,2-Dichlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	1	30%	
1,3-Dichlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	ND	102	80-120%	3	30%	
1,4-Dichlorobenzene	19.3	0.250	0.500	ug/L	1	20.0	ND	97	79-120%	2	30%	
Dichlorodifluoromethane	20.8	0.500	1.00	ug/L	1	20.0	ND	104	32-152%	2	30%	
1,1-Dichloroethane	23.0	0.200	0.400	ug/L	1	20.0	ND	115	77-125%	3	30%	
1,2-Dichloroethane (EDC)	18.6	0.200	0.400	ug/L	1	20.0	ND	93	73-128%	6	30%	
1,1-Dichloroethene	24.3	0.200	0.400	ug/L	1	20.0	ND	122	71-131%	5	30%	Q-54c
cis-1,2-Dichloroethene	22.3	0.200	0.400	ug/L	1	20.0	ND	111	78-123%	0.4	30%	
trans-1,2-Dichloroethene	23.6	0.200	0.400	ug/L	1	20.0	ND	118	75-124%	2	30%	Q-54d
1,2-Dichloropropane	23.5	0.250	0.500	ug/L	1	20.0	ND	118	78-122%	0.08	30%	Q-54h
1,3-Dichloropropane	20.1	0.500	1.00	ug/L	1	20.0	ND	100	80-120%	1	30%	
2,2-Dichloropropane	16.5	0.500	1.00	ug/L	1	20.0	ND	82	60-139%	4	30%	
1,1-Dichloropropene	24.7	0.500	1.00	ug/L	1	20.0	ND	123	79-125%	1	30%	Q-54g
cis-1,3-Dichloropropene	17.2	0.500	1.00	ug/L	1	20.0	ND	86	75-124%	0.2	30%	
trans-1,3-Dichloropropene	19.0	0.500	1.00	ug/L	1	20.0	ND	95	73-127%	3	30%	
Ethylbenzene	21.0	0.250	0.500	ug/L	1	20.0	ND	105	79-121%	2	30%	
Hexachlorobutadiene	17.9	2.50	5.00	ug/L	1	20.0	ND	90	66-134%	3	30%	
2-Hexanone	37.5	5.00	10.0	ug/L	1	40.0	ND	94	57-139%	0.9	30%	
Isopropylbenzene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	72-131%	1	30%	
4-Isopropyltoluene	21.8	0.500	1.00	ug/L	1	20.0	ND	109	77-127%	3	30%	
Methylene chloride	23.2	5.00	10.0	ug/L	1	20.0	ND	116	74-124%	0.9	30%	Q-54k

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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: A2K0622 - 12 27 22 1313
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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 22K0833 - EPA 5030C						Water						
Matrix Spike Dup (22K0833-MSD1)			Prepared: 11/22/22 12:12 Analyzed: 11/23/22 06:58									
QC Source Sample: Non-SDG (A2K0744-05)												
4-Methyl-2-pentanone (MiBK)	39.2	5.00	10.0	ug/L	1	40.0	ND	98	67-130%	0.2	30%	
Methyl tert-butyl ether (MTBE)	21.9	0.500	1.00	ug/L	1	20.0	ND	110	71-124%	2	30%	
Naphthalene	17.5	1.00	2.00	ug/L	1	20.0	ND	88	61-128%	1	30%	
n-Propylbenzene	21.5	0.250	0.500	ug/L	1	20.0	ND	108	76-126%	1	30%	
Styrene	19.0	0.500	1.00	ug/L	1	20.0	ND	95	78-123%	5	30%	
1,1,1,2-Tetrachloroethane	19.4	0.200	0.400	ug/L	1	20.0	ND	97	78-124%	0.1	30%	
1,1,2,2-Tetrachloroethane	20.5	0.250	0.500	ug/L	1	20.0	ND	102	71-121%	1	30%	
Tetrachloroethene (PCE)	20.0	0.200	0.400	ug/L	1	20.0	ND	100	74-129%	2	30%	
Toluene	19.5	0.500	1.00	ug/L	1	20.0	ND	98	80-121%	2	30%	
1,2,3-Trichlorobenzene	20.4	1.00	2.00	ug/L	1	20.0	ND	102	69-129%	2	30%	
1,2,4-Trichlorobenzene	18.2	1.00	2.00	ug/L	1	20.0	ND	91	69-130%	2	30%	
1,1,1-Trichloroethane	22.0	0.200	0.400	ug/L	1	20.0	ND	110	74-131%	3	30%	
1,1,2-Trichloroethane	20.0	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	4	30%	
Trichloroethene (TCE)	22.9	0.200	0.400	ug/L	1	20.0	ND	115	79-123%	2	30%	
Trichlorofluoromethane	23.6	1.00	2.00	ug/L	1	20.0	ND	118	65-141%	4	30%	
1,2,3-Trichloropropane	18.5	0.500	1.00	ug/L	1	20.0	ND	93	73-122%	3	30%	
1,2,4-Trimethylbenzene	20.9	0.500	1.00	ug/L	1	20.0	ND	104	76-124%	2	30%	
1,3,5-Trimethylbenzene	22.1	0.500	1.00	ug/L	1	20.0	ND	110	75-124%	1	30%	
Vinyl chloride	26.5	0.200	0.400	ug/L	1	20.0	ND	132	58-137%	4	30%	
m,p-Xylene	42.9	0.500	1.00	ug/L	1	40.0	ND	107	80-121%	3	30%	
o-Xylene	20.3	0.250	0.500	ug/L	1	20.0	ND	102	78-122%	0.1	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>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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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 22K0877 - EPA 5030C						Water						
Blank (22K0877-BLK1)			Prepared: 11/23/22 09:19 Analyzed: 11/23/22 11:21									
<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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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0877 - EPA 5030C						Water						
Blank (22K0877-BLK1)			Prepared: 11/23/22 09:19			Analyzed: 11/23/22 11:21						
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	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 119 % Limits: 80-120 % Dilution: 1x

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0877 - EPA 5030C						Water						
Blank (22K0877-BLK1)			Prepared: 11/23/22 09:19 Analyzed: 11/23/22 11:21									
<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>101 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (22K0877-BS1)						Prepared: 11/23/22 09:19 Analyzed: 11/23/22 10:35						
EPA 8260D												
Acetone	38.4	10.0	20.0	ug/L	1	40.0	---	96	80-120%	---	---	
Acrylonitrile	23.3	1.00	2.00	ug/L	1	20.0	---	117	80-120%	---	---	
Benzene	23.5	0.100	0.200	ug/L	1	20.0	---	118	80-120%	---	---	
Bromobenzene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Bromochloromethane	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Bromodichloromethane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Bromoform	19.5	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Bromomethane	17.7	5.00	5.00	ug/L	1	20.0	---	89	80-120%	---	---	
2-Butanone (MEK)	41.4	5.00	10.0	ug/L	1	40.0	---	103	80-120%	---	---	
n-Butylbenzene	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
sec-Butylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
tert-Butylbenzene	19.5	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Carbon disulfide	21.4	5.00	10.0	ug/L	1	20.0	---	107	80-120%	---	---	
Carbon tetrachloride	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Chlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Chloroethane	22.6	5.00	5.00	ug/L	1	20.0	---	113	80-120%	---	---	
Chloroform	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Chloromethane	20.3	2.50	5.00	ug/L	1	20.0	---	102	80-120%	---	---	
2-Chlorotoluene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
4-Chlorotoluene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Dibromochloromethane	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2-Dibromo-3-chloropropane	16.4	2.50	5.00	ug/L	1	20.0	---	82	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Dibromomethane	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2-Dichlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
1,3-Dichlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,4-Dichlorobenzene	18.7	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Dichlorodifluoromethane	15.9	0.500	1.00	ug/L	1	20.0	---	80	80-120%	---	---	
1,1-Dichloroethane	21.6	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
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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 22K0877 - EPA 5030C						Water						
LCS (22K0877-BS1)			Prepared: 11/23/22 09:19 Analyzed: 11/23/22 10:35									
1,2-Dichloroethane (EDC)	18.5	0.200	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
1,1-Dichloroethene	22.3	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
cis-1,2-Dichloroethene	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
trans-1,2-Dichloroethene	21.7	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
1,2-Dichloropropane	22.7	0.250	0.500	ug/L	1	20.0	---	113	80-120%	---	---	
1,3-Dichloropropane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
2,2-Dichloropropane	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,1-Dichloropropene	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
cis-1,3-Dichloropropene	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
trans-1,3-Dichloropropene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Ethylbenzene	20.1	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Hexachlorobutadiene	16.8	2.50	5.00	ug/L	1	20.0	---	84	80-120%	---	---	
2-Hexanone	36.4	5.00	10.0	ug/L	1	40.0	---	91	80-120%	---	---	
Isopropylbenzene	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Isopropyltoluene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Methylene chloride	23.0	5.00	10.0	ug/L	1	20.0	---	115	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	38.8	5.00	10.0	ug/L	1	40.0	---	97	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Naphthalene	16.6	1.00	2.00	ug/L	1	20.0	---	83	80-120%	---	---	
n-Propylbenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Styrene	21.3	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,1,1,2-Tetrachloroethane	18.9	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,2,2-Tetrachloroethane	19.9	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Tetrachloroethene (PCE)	19.0	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
Toluene	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	19.9	1.00	2.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2,4-Trichlorobenzene	17.4	1.00	2.00	ug/L	1	20.0	---	87	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)	21.4	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
Trichlorofluoromethane	21.3	1.00	2.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2,3-Trichloropropane	18.1	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,2,4-Trimethylbenzene	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,3,5-Trimethylbenzene	21.5	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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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	A2K0622 - 12 27 22 1313

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 22K0877 - EPA 5030C						Water						
LCS (22K0877-BS1)			Prepared: 11/23/22 09:19 Analyzed: 11/23/22 10:35									
Vinyl chloride	20.6	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
m,p-Xylene	41.9	0.500	1.00	ug/L	1	40.0	---	105	80-120%	---	---	
o-Xylene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22K0877-DUP1) Prepared: 11/23/22 09:19 Analyzed: 11/23/22 18:51

QC Source Sample: Non-SDG (A2K0740-08)

Acetone	ND	200	400	ug/L	20	---	ND	---	---	---	30%
Acrylonitrile	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%
Benzene	ND	2.00	4.00	ug/L	20	---	ND	---	---	---	30%
Bromobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%
Bromochloromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Bromodichloromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Bromoform	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Bromomethane	ND	100	100	ug/L	20	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	100	200	ug/L	20	---	ND	---	---	---	30%
n-Butylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
sec-Butylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
tert-Butylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Carbon disulfide	ND	100	200	ug/L	20	---	ND	---	---	---	30%
Carbon tetrachloride	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Chlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%
Chloroethane	ND	100	100	ug/L	20	---	ND	---	---	---	30%
Chloroform	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Chloromethane	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%
2-Chlorotoluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
4-Chlorotoluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Dibromochloromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%
Dibromomethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%

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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: A2K0622 - 12 27 22 1313
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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 22K0877 - EPA 5030C						Water						
Duplicate (22K0877-DUP1)			Prepared: 11/23/22 09:19 Analyzed: 11/23/22 18:51									
QC Source Sample: Non-SDG (A2K0740-08)												
1,3-Dichlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloroethene	22.0	4.00	8.00	ug/L	20	---	21.6	---	---	2	30%	
cis-1,2-Dichloroethene	3270	4.00	8.00	ug/L	20	---	3320	---	---	1	30%	
trans-1,2-Dichloroethene	43.0	4.00	8.00	ug/L	20	---	46.0	---	---	7	30%	
1,2-Dichloropropane	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Ethylbenzene	11.4	5.00	10.0	ug/L	20	---	11.8	---	---	3	30%	
Hexachlorobutadiene	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%	
2-Hexanone	ND	100	200	ug/L	20	---	ND	---	---	---	30%	
Isopropylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Methylene chloride	ND	100	200	ug/L	20	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	100	200	ug/L	20	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Naphthalene	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%	
n-Propylbenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Styrene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	7.40	4.00	8.00	ug/L	20	---	7.80	---	---	5	30%	J
Toluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0877 - EPA 5030C						Water						
Duplicate (22K0877-DUP1)			Prepared: 11/23/22 09:19 Analyzed: 11/23/22 18:51									
QC Source Sample: Non-SDG (A2K0740-08)												
Trichloroethene (TCE)	2300	4.00	8.00	ug/L	20	---	2390	---	---	4	30%	
Trichlorofluoromethane	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Vinyl chloride	39.0	4.00	8.00	ug/L	20	---	44.2	---	---	12	30%	
m,p-Xylene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
o-Xylene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 120 %</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>102 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (22K0877-MS1)						Prepared: 11/23/22 09:19 Analyzed: 11/23/22 13:29						
QC Source Sample: Non-SDG (A2K0797-01)												
EPA 8260D												
Acetone	45.4	10.0	20.0	ug/L	1	40.0	ND	114	39-160%	---	---	
Acrylonitrile	23.1	1.00	2.00	ug/L	1	20.0	ND	116	63-135%	---	---	
Benzene	24.5	0.100	0.200	ug/L	1	20.0	ND	122	79-120%	---	---	Q-01
Bromobenzene	19.8	0.250	0.500	ug/L	1	20.0	ND	99	80-120%	---	---	
Bromochloromethane	22.9	0.500	1.00	ug/L	1	20.0	ND	114	78-123%	---	---	
Bromodichloromethane	21.0	0.500	1.00	ug/L	1	20.0	ND	105	79-125%	---	---	
Bromoform	20.4	0.500	1.00	ug/L	1	20.0	ND	102	66-130%	---	---	
Bromomethane	13.1	5.00	5.00	ug/L	1	20.0	ND	66	53-141%	---	---	
2-Butanone (MEK)	44.8	5.00	10.0	ug/L	1	40.0	ND	112	56-143%	---	---	
n-Butylbenzene	21.0	0.500	1.00	ug/L	1	20.0	ND	105	75-128%	---	---	
sec-Butylbenzene	23.2	0.500	1.00	ug/L	1	20.0	ND	116	77-126%	---	---	
tert-Butylbenzene	21.0	0.500	1.00	ug/L	1	20.0	ND	105	78-124%	---	---	
Carbon disulfide	23.9	5.00	10.0	ug/L	1	20.0	ND	119	64-133%	---	---	
Carbon tetrachloride	23.4	0.500	1.00	ug/L	1	20.0	ND	117	72-136%	---	---	
Chlorobenzene	20.3	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
Chloroethane	23.9	5.00	5.00	ug/L	1	20.0	ND	119	60-138%	---	---	
Chloroform	22.0	0.500	1.00	ug/L	1	20.0	ND	110	79-124%	---	---	
Chloromethane	30.8	2.50	5.00	ug/L	1	20.0	ND	154	50-139%	---	---	Q-01

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2K0622 - 12 27 22 1313
---	---	---

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 22K0877 - EPA 5030C						Water						
Matrix Spike (22K0877-MS1)			Prepared: 11/23/22 09:19 Analyzed: 11/23/22 13:29									
QC Source Sample: Non-SDG (A2K0797-01)												
2-Chlorotoluene	21.5	0.500	1.00	ug/L	1	20.0	ND	107	79-122%	---	---	
4-Chlorotoluene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	78-122%	---	---	
Dibromochloromethane	19.3	0.500	1.00	ug/L	1	20.0	ND	96	74-126%	---	---	
1,2-Dibromo-3-chloropropane	18.0	2.50	5.00	ug/L	1	20.0	ND	90	62-128%	---	---	
1,2-Dibromoethane (EDB)	20.2	0.250	0.500	ug/L	1	20.0	ND	101	77-121%	---	---	
Dibromomethane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	79-123%	---	---	
1,2-Dichlorobenzene	20.7	0.250	0.500	ug/L	1	20.0	ND	104	80-120%	---	---	
1,3-Dichlorobenzene	21.1	0.250	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
1,4-Dichlorobenzene	19.9	0.250	0.500	ug/L	1	20.0	ND	100	79-120%	---	---	
Dichlorodifluoromethane	20.5	0.500	1.00	ug/L	1	20.0	ND	103	32-152%	---	---	
1,1-Dichloroethane	23.0	0.200	0.400	ug/L	1	20.0	ND	115	77-125%	---	---	
1,2-Dichloroethane (EDC)	18.8	0.200	0.400	ug/L	1	20.0	ND	94	73-128%	---	---	
1,1-Dichloroethene	24.5	0.200	0.400	ug/L	1	20.0	ND	122	71-131%	---	---	
cis-1,2-Dichloroethene	22.2	0.200	0.400	ug/L	1	20.0	0.200	110	78-123%	---	---	
trans-1,2-Dichloroethene	23.4	0.200	0.400	ug/L	1	20.0	ND	117	75-124%	---	---	
1,2-Dichloropropane	22.7	0.250	0.500	ug/L	1	20.0	ND	114	78-122%	---	---	
1,3-Dichloropropane	20.4	0.500	1.00	ug/L	1	20.0	ND	102	80-120%	---	---	
2,2-Dichloropropane	22.8	0.500	1.00	ug/L	1	20.0	ND	114	60-139%	---	---	
1,1-Dichloropropene	24.9	0.500	1.00	ug/L	1	20.0	ND	124	79-125%	---	---	
cis-1,3-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0	ND	93	75-124%	---	---	
trans-1,3-Dichloropropene	21.0	0.500	1.00	ug/L	1	20.0	ND	105	73-127%	---	---	
Ethylbenzene	21.2	0.250	0.500	ug/L	1	20.0	ND	106	79-121%	---	---	
Hexachlorobutadiene	13.7	2.50	5.00	ug/L	1	20.0	ND	68	66-134%	---	---	
2-Hexanone	38.4	5.00	10.0	ug/L	1	40.0	ND	96	57-139%	---	---	
Isopropylbenzene	22.6	0.500	1.00	ug/L	1	20.0	ND	113	72-131%	---	---	
4-Isopropyltoluene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	77-127%	---	---	
Methylene chloride	22.7	5.00	10.0	ug/L	1	20.0	ND	114	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	39.8	5.00	10.0	ug/L	1	40.0	ND	100	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	21.9	0.500	1.00	ug/L	1	20.0	ND	110	71-124%	---	---	
Naphthalene	17.2	1.00	2.00	ug/L	1	20.0	ND	86	61-128%	---	---	
n-Propylbenzene	22.1	0.250	0.500	ug/L	1	20.0	ND	110	76-126%	---	---	
Styrene	20.7	0.500	1.00	ug/L	1	20.0	ND	103	78-123%	---	---	
1,1,1,2-Tetrachloroethane	19.8	0.200	0.400	ug/L	1	20.0	ND	99	78-124%	---	---	

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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: A2K0622 - 12 27 22 1313
---	---	---

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 22K0877 - EPA 5030C						Water						
Matrix Spike (22K0877-MS1)			Prepared: 11/23/22 09:19 Analyzed: 11/23/22 13:29									
QC Source Sample: Non-SDG (A2K0797-01)												
1,1,2,2-Tetrachloroethane	21.1	0.250	0.500	ug/L	1	20.0	ND	106	71-121%	---	---	
Tetrachloroethene (PCE)	21.0	0.200	0.400	ug/L	1	20.0	ND	105	74-129%	---	---	
Toluene	19.9	0.500	1.00	ug/L	1	20.0	ND	100	80-121%	---	---	
1,2,3-Trichlorobenzene	19.8	1.00	2.00	ug/L	1	20.0	ND	99	69-129%	---	---	
1,2,4-Trichlorobenzene	17.4	1.00	2.00	ug/L	1	20.0	ND	87	69-130%	---	---	
1,1,1-Trichloroethane	22.1	0.200	0.400	ug/L	1	20.0	ND	110	74-131%	---	---	
1,1,2-Trichloroethane	20.6	0.250	0.500	ug/L	1	20.0	ND	103	80-120%	---	---	
Trichloroethene (TCE)	22.8	0.200	0.400	ug/L	1	20.0	ND	114	79-123%	---	---	
Trichlorofluoromethane	24.8	1.00	2.00	ug/L	1	20.0	ND	124	65-141%	---	---	
1,2,3-Trichloropropane	18.7	0.500	1.00	ug/L	1	20.0	ND	94	73-122%	---	---	
1,2,4-Trimethylbenzene	22.4	0.500	1.00	ug/L	1	20.0	ND	112	76-124%	---	---	
1,3,5-Trimethylbenzene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	75-124%	---	---	
Vinyl chloride	24.6	0.200	0.400	ug/L	1	20.0	ND	123	58-137%	---	---	
m,p-Xylene	44.5	0.500	1.00	ug/L	1	40.0	ND	111	80-121%	---	---	
o-Xylene	20.5	0.250	0.500	ug/L	1	20.0	ND	102	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 109 %</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>100 %</i>		<i>80-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



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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 22K0824 - EPA 3510C (Acid Extraction)						Water						
Blank (22K0824-BLK1)			Prepared: 11/22/22 07:24 Analyzed: 11/22/22 17:43									
<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	0.195	0.0364	0.0727	ug/L	1	---	---	---	---	---	---	B
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: 78 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>87 %</i>		<i>50-134 %</i>		<i>"</i>						

LCS (22K0824-BS1)			Prepared: 11/22/22 07:24 Analyzed: 11/22/22 18:08									
<u>EPA 8270E SIM</u>												
Acenaphthene	7.83	0.0200	0.0400	ug/L	1	8.00	---	98	47-122%	---	---	
Acenaphthylene	7.76	0.0200	0.0400	ug/L	1	8.00	---	97	41-130%	---	---	
Anthracene	8.22	0.0200	0.0400	ug/L	1	8.00	---	103	57-123%	---	---	
Benz(a)anthracene	8.29	0.0200	0.0400	ug/L	1	8.00	---	104	58-125%	---	---	
Benzo(a)pyrene	8.50	0.0200	0.0400	ug/L	1	8.00	---	106	54-128%	---	---	
Benzo(b)fluoranthene	8.47	0.0200	0.0400	ug/L	1	8.00	---	106	53-131%	---	---	
Benzo(k)fluoranthene	8.62	0.0200	0.0400	ug/L	1	8.00	---	108	57-129%	---	---	
Benzo(g,h,i)perylene	7.65	0.0200	0.0400	ug/L	1	8.00	---	96	50-134%	---	---	
Chrysene	8.60	0.0200	0.0400	ug/L	1	8.00	---	108	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 22K0824 - EPA 3510C (Acid Extraction)						Water						
LCS (22K0824-BS1)			Prepared: 11/22/22 07:24 Analyzed: 11/22/22 18:08									
Dibenz(a,h)anthracene	8.59	0.0200	0.0400	ug/L	1	8.00	---	107	51-134%	---	---	
Fluoranthene	8.63	0.0200	0.0400	ug/L	1	8.00	---	108	57-128%	---	---	
Fluorene	8.13	0.0200	0.0400	ug/L	1	8.00	---	102	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	8.42	0.0200	0.0400	ug/L	1	8.00	---	105	52-134%	---	---	
1-Methylnaphthalene	7.63	0.0400	0.0800	ug/L	1	8.00	---	95	41-120%	---	---	
2-Methylnaphthalene	7.48	0.0400	0.0800	ug/L	1	8.00	---	93	40-121%	---	---	
Naphthalene	7.66	0.0400	0.0800	ug/L	1	8.00	---	96	40-121%	---	---	B
Phenanthrene	7.94	0.0200	0.0400	ug/L	1	8.00	---	99	59-120%	---	---	
Pyrene	8.49	0.0200	0.0400	ug/L	1	8.00	---	106	57-126%	---	---	
Dibenzofuran	7.87	0.0200	0.0400	ug/L	1	8.00	---	98	53-120%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 99 %</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 Dup (22K0824-BSD1)			Prepared: 11/22/22 07:24 Analyzed: 11/22/22 18:33									
EPA 8270E SIM												
Acenaphthene	6.68	0.0200	0.0400	ug/L	1	8.00	---	83	47-122%	16	30%	
Acenaphthylene	6.72	0.0200	0.0400	ug/L	1	8.00	---	84	41-130%	14	30%	
Anthracene	7.36	0.0200	0.0400	ug/L	1	8.00	---	92	57-123%	11	30%	
Benz(a)anthracene	7.62	0.0200	0.0400	ug/L	1	8.00	---	95	58-125%	8	30%	
Benzo(a)pyrene	7.78	0.0200	0.0400	ug/L	1	8.00	---	97	54-128%	9	30%	
Benzo(b)fluoranthene	7.77	0.0200	0.0400	ug/L	1	8.00	---	97	53-131%	9	30%	
Benzo(k)fluoranthene	7.95	0.0200	0.0400	ug/L	1	8.00	---	99	57-129%	8	30%	
Benzo(g,h,i)perylene	6.99	0.0200	0.0400	ug/L	1	8.00	---	87	50-134%	9	30%	
Chrysene	7.87	0.0200	0.0400	ug/L	1	8.00	---	98	59-123%	9	30%	
Dibenz(a,h)anthracene	7.93	0.0200	0.0400	ug/L	1	8.00	---	99	51-134%	8	30%	
Fluoranthene	7.70	0.0200	0.0400	ug/L	1	8.00	---	96	57-128%	11	30%	
Fluorene	7.01	0.0200	0.0400	ug/L	1	8.00	---	88	52-124%	15	30%	
Indeno(1,2,3-cd)pyrene	7.73	0.0200	0.0400	ug/L	1	8.00	---	97	52-134%	9	30%	
1-Methylnaphthalene	6.46	0.0400	0.0800	ug/L	1	8.00	---	81	41-120%	17	30%	
2-Methylnaphthalene	6.35	0.0400	0.0800	ug/L	1	8.00	---	79	40-121%	16	30%	
Naphthalene	6.82	0.0400	0.0800	ug/L	1	8.00	---	85	40-121%	12	30%	B
Phenanthrene	7.26	0.0200	0.0400	ug/L	1	8.00	---	91	59-120%	9	30%	
Pyrene	7.72	0.0200	0.0400	ug/L	1	8.00	---	97	57-126%	9	30%	
Dibenzofuran	6.87	0.0200	0.0400	ug/L	1	8.00	---	86	53-120%	14	30%	

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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 22K0824 - EPA 3510C (Acid Extraction)						Water						
LCS Dup (22K0824-BSD1)						Prepared: 11/22/22 07:24 Analyzed: 11/22/22 18:33						
<i>Surr: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 85 %</i>	<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>			<i>95 %</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 22K0887 - 1631E Mercury (H2O)						Water						
Blank (22K0887-BLK1)			Prepared: 11/23/22 11:36 Analyzed: 11/28/22 13:29									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22K0887-BLK2)			Prepared: 11/23/22 11:36 Analyzed: 11/28/22 13:34									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22K0887-BLK3)			Prepared: 11/23/22 11:36 Analyzed: 11/28/22 13:39									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
LCS (22K0887-BS1)			Prepared: 11/23/22 11:36 Analyzed: 11/28/22 13:44									
<u>EPA 1631E-LL</u>												
Mercury	0.00783	0.000500	0.00100	ug/L	1	0.00800	---	98	80-120%	---	---	
Matrix Spike (22K0887-MS1)			Prepared: 11/23/22 11:36 Analyzed: 11/28/22 13:59									
<u>QC Source Sample: SI-111622-96 (A2K0622-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00695	0.000500	0.00100	ug/L	1	0.00800	ND	87	75-125%	---	---	
Matrix Spike (22K0887-MS2)			Prepared: 11/23/22 11:36 Analyzed: 11/28/22 15:04									
<u>QC Source Sample: Non-SDG (A2K0752-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.0177	0.000500	0.00100	ug/L	1	0.00800	0.00880	111	75-125%	---	---	
Matrix Spike Dup (22K0887-MSD1)			Prepared: 11/23/22 11:36 Analyzed: 11/28/22 14:04									
<u>QC Source Sample: SI-111622-96 (A2K0622-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00714	0.000500	0.00100	ug/L	1	0.00800	ND	89	75-125%	3	24%	
Matrix Spike Dup (22K0887-MSD2)			Prepared: 11/23/22 11:36 Analyzed: 11/28/22 15:09									
<u>QC Source Sample: Non-SDG (A2K0752-01)</u>												

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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 22K0887 - 1631E Mercury (H2O)						Water						
Matrix Spike Dup (22K0887-MSD2)			Prepared: 11/23/22 11:36 Analyzed: 11/28/22 15:09									
<u>QC Source Sample: Non-SDG (A2K0752-01)</u>												
Mercury	0.0168	0.000500	0.00100	ug/L	1	0.00800	0.00880	100	75-125%	5	24%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22L0079 - 1631E Mercury (H2O)						Water						
Blank (22L0079-BLK1)			Prepared: 12/02/22 16:33 Analyzed: 12/03/22 16:23									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22L0079-BLK2)			Prepared: 12/02/22 16:33 Analyzed: 12/03/22 16:28									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22L0079-BLK3)			Prepared: 12/02/22 16:33 Analyzed: 12/03/22 16:33									
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
LCS (22L0079-BS1)			Prepared: 12/02/22 16:33 Analyzed: 12/03/22 16:38									
<u>EPA 1631E-LL</u>												
Mercury	0.00866	0.000500	0.00100	ug/L	1	0.00800	---	108	80-120%	---	---	
Matrix Spike (22L0079-MS1)			Prepared: 12/02/22 16:33 Analyzed: 12/03/22 17:03									
<u>QC Source Sample: Non-SDG (A2K0898-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00771	0.000500	0.00100	ug/L	1	0.00800	0.00192	72	75-125%	---	---	Q-02
Matrix Spike Dup (22L0079-MSD1)			Prepared: 12/02/22 16:33 Analyzed: 12/03/22 17:08									
<u>QC Source Sample: Non-SDG (A2K0898-01)</u>												
Mercury	0.0105	0.000500	0.00100	ug/L	1	0.00800	0.00192	108	75-125%	31	24%	Q-02

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2749 Lockport Road	Project Number: 000029-02-20-2	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2K0622 - 12 27 22 1313

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 22K0723 - EPA 3015A												
Water												
Blank (22K0723-BLK1)												
						Prepared: 11/18/22 10:09 Analyzed: 11/19/22 01:34						
<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	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.110	0.200	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	

LCS (22K0723-BS1)												
						Prepared: 11/18/22 10:09 Analyzed: 11/19/22 01:39						
<u>EPA 6020B</u>												
Arsenic	54.6	0.500	1.00	ug/L	1	55.6	---	98	80-120%	---	---	
Barium	56.1	1.00	2.00	ug/L	1	55.6	---	101	80-120%	---	---	
Cadmium	56.7	0.100	0.200	ug/L	1	55.6	---	102	80-120%	---	---	
Chromium	52.2	1.00	2.00	ug/L	1	55.6	---	94	80-120%	---	---	
Copper	55.0	1.00	2.00	ug/L	1	55.6	---	99	80-120%	---	---	
Iron	2840	25.0	50.0	ug/L	1	2780	---	102	80-120%	---	---	
Lead	58.3	0.110	0.200	ug/L	1	55.6	---	105	80-120%	---	---	
Mercury	1.12	0.0400	0.0800	ug/L	1	1.11	---	101	80-120%	---	---	
Selenium	27.1	0.500	1.00	ug/L	1	27.8	---	98	80-120%	---	---	
Silver	28.7	0.100	0.200	ug/L	1	27.8	---	103	80-120%	---	---	

Duplicate (22K0723-DUP1)												
						Prepared: 11/18/22 10:09 Analyzed: 11/19/22 01:55						
<u>QC Source Sample: SI-111622-96 (A2K0622-01)</u>												
<u>EPA 6020B</u>												
Arsenic	5.19	2.50	5.00	ug/L	5	---	5.11	---	---	1	20%	
Barium	80.1	5.00	10.0	ug/L	5	---	81.8	---	---	2	20%	
Cadmium	ND	0.500	1.00	ug/L	5	---	ND	---	---	---	20%	R-04
Chromium	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	20%	R-04
Iron	35200	125	250	ug/L	5	---	34900	---	---	0.7	20%	
Lead	ND	0.550	1.00	ug/L	5	---	ND	---	---	---	20%	R-04

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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 22K0723 - EPA 3015A						Water						
Duplicate (22K0723-DUP1)			Prepared: 11/18/22 10:09 Analyzed: 11/19/22 01:55									
<u>QC Source Sample: SI-111622-96 (A2K0622-01)</u>												
Mercury	ND	0.200	0.400	ug/L	5	---	ND	---	---	---	20%	R-04
Selenium	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	20%	R-04
Silver	ND	0.500	1.00	ug/L	5	---	ND	---	---	---	20%	R-04
Duplicate (22K0723-DUP2)			Prepared: 11/18/22 10:09 Analyzed: 11/22/22 05:14									
<u>QC Source Sample: SI-111622-96 (A2K0622-01RE1)</u>												
<u>EPA 6020B</u>												
Copper	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	Q-16
Matrix Spike (22K0723-MS1)			Prepared: 11/18/22 10:09 Analyzed: 11/19/22 02:11									
<u>QC Source Sample: SI-111622-96 (A2K0622-01)</u>												
<u>EPA 6020B</u>												
Arsenic	59.6	2.50	5.00	ug/L	5	55.6	5.11	98	75-125%	---	---	
Barium	133	5.00	10.0	ug/L	5	55.6	81.8	93	75-125%	---	---	
Cadmium	56.8	0.500	1.00	ug/L	5	55.6	ND	102	75-125%	---	---	
Chromium	51.4	5.00	10.0	ug/L	5	55.6	ND	93	75-125%	---	---	
Iron	37400	125	250	ug/L	5	2780	34900	89	75-125%	---	---	
Lead	58.9	0.550	1.00	ug/L	5	55.6	ND	106	75-125%	---	---	
Mercury	1.19	0.200	0.400	ug/L	5	1.11	ND	107	75-125%	---	---	
Selenium	28.9	2.50	5.00	ug/L	5	27.8	ND	104	75-125%	---	---	
Silver	28.4	0.500	1.00	ug/L	5	27.8	ND	102	75-125%	---	---	
Matrix Spike (22K0723-MS2)			Prepared: 11/18/22 10:09 Analyzed: 11/22/22 05:19									
<u>QC Source Sample: SI-111622-96 (A2K0622-01RE1)</u>												
<u>EPA 6020B</u>												
Copper	53.1	1.00	2.00	ug/L	1	55.6	ND	96	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 22L0092 - EPA 1664B - 2022						Water						
Blank (22L0092-BLK1)			Prepared: 12/05/22 08:17 Analyzed: 12/05/22 08:17									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	ND	4550	4550	ug/L	1	---	---	---	---	---	---	
LCS (22L0092-BS1)			Prepared: 12/05/22 08:17 Analyzed: 12/05/22 08:17									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	36.2			mg/L	1	40.0	---	90	78-114%	---	---	
Matrix Spike (22L0092-MS1)			Prepared: 12/05/22 08:17 Analyzed: 12/05/22 08:17									
<u>QC Source Sample: Non-SDG (A2K0519-01)</u>												
<u>EPA 1664B</u>												
HEM (Oil and Grease)	156			mg/L	1	40.0	ND	174	78-114%	---	---	Q-01

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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 22L0404 - EPA 1664B - 2022						Water						
Blank (22L0404-BLK1)			Prepared: 12/12/22 12:20 Analyzed: 12/13/22 13:40									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	ND	4130	4130	ug/L	1	---	---	---	---	---	---	
LCS (22L0404-BS1)			Prepared: 12/12/22 12:20 Analyzed: 12/13/22 13:40									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	26.1			mg/L	1	40.0	---	65	78-114%	---	---	Q-30
Matrix Spike (22L0404-MS1)			Prepared: 12/12/22 12:20 Analyzed: 12/13/22 13:40									
<u>QC Source Sample: Non-SDG (A2K0610-02)</u>												
<u>EPA 1664B</u>												
HEM (Oil and Grease)	19.0			mg/L	1	40.0	ND	47	78-114%	---	---	Q-01

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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: A2K0622 - 12 27 22 1313
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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 22K0767 - ASTM D7511-12 (W)						Water						
Blank (22K0767-BLK1)			Prepared: 11/21/22 08:08 Analyzed: 11/21/22 12:18									
<u>D7511-12</u>												
Total Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
LCS (22K0767-BS1)			Prepared: 11/21/22 08:08 Analyzed: 11/21/22 12:20									
<u>D7511-12</u>												
Total Cyanide	23.9	2.50	5.00	ug/L	1	25.0	---	95	84-116%	---	---	
Matrix Spike (22K0767-MS2)			Prepared: 11/21/22 08:08 Analyzed: 11/21/22 12:38									
<u>QC Source Sample: Non-SDG (A2K0617-01)</u>												
<u>D7511-12</u>												
Total Cyanide	26.2	2.51	5.03	ug/L	1	25.1	ND	104	64-136%	---	---	
Matrix Spike (22K0767-MS4)			Prepared: 11/21/22 08:08 Analyzed: 11/21/22 16:15									
<u>QC Source Sample: Non-SDG (A2K0574-01RE2)</u>												
<u>D7511-12</u>												
Total Cyanide	23.5	2.51	5.03	ug/L	1	25.1	ND	94	64-136%	---	---	Q-16
Matrix Spike Dup (22K0767-MSD2)			Prepared: 11/21/22 08:08 Analyzed: 11/21/22 12:40									
<u>QC Source Sample: Non-SDG (A2K0617-01)</u>												
Total Cyanide	26.5	2.51	5.03	ug/L	1	25.1	ND	106	64-136%	1	47%	
Matrix Spike Dup (22K0767-MSD4)			Prepared: 11/21/22 08:08 Analyzed: 11/21/22 16:17									
<u>QC Source Sample: Non-SDG (A2K0574-01RE2)</u>												
Total Cyanide	23.9	2.51	5.03	ug/L	1	25.1	ND	95	64-136%	1	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 22K0686 - Method Prep: Aq						Water						
Blank (22K0686-BLK1)			Prepared: 11/17/22 11:58 Analyzed: 11/17/22 15:45									
<u>D6888-09</u>												
Available Cyanide	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
LCS (22K0686-BS1)			Prepared: 11/17/22 11:58 Analyzed: 11/17/22 15:47									
<u>D6888-09</u>												
Available Cyanide	26.3	1.00	2.00	ug/L	1	25.0	---	105	90-117%	---	---	
Matrix Spike (22K0686-MS1)			Prepared: 11/17/22 11:58 Analyzed: 11/17/22 15:54									
<u>QC Source Sample: GACF1-111622-96 (A2K0622-11)</u>												
<u>D6888-09</u>												
Available Cyanide	30.1	1.01	2.01	ug/L	1	25.1	8.75	85	82-130%	---	---	
Matrix Spike Dup (22K0686-MSD1)			Prepared: 11/17/22 11:58 Analyzed: 11/17/22 15:56									
<u>QC Source Sample: GACF1-111622-96 (A2K0622-11)</u>												
<u>D6888-09</u>												
Available Cyanide	30.5	1.01	2.01	ug/L	1	25.1	8.75	87	82-130%	1	11%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22K0668 - Method Prep: Aq						Water						
Blank (22K0668-BLK1)			Prepared: 11/17/22 09:02 Analyzed: 11/17/22 11:22									
<u>D7237-15A</u>												
Free Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
LCS (22K0668-BS1)			Prepared: 11/17/22 09:02 Analyzed: 11/17/22 11:23									
<u>D7237-15A</u>												
Free Cyanide	25.3	2.50	5.00	ug/L	1	25.0	---	101	90-118%	---	---	
Matrix Spike (22K0668-MS1)			Prepared: 11/17/22 09:02 Analyzed: 11/17/22 11:29									
<u>QC Source Sample: GACF2-111622-96 (A2K0622-12)</u>												
<u>D7237-15A</u>												
Free Cyanide	28.7	2.51	5.03	ug/L	1	25.1	3.99	98	79-121%	---	---	
Matrix Spike Dup (22K0668-MSD1)			Prepared: 11/17/22 09:02 Analyzed: 11/17/22 11:31									
<u>QC Source Sample: GACF2-111622-96 (A2K0622-12)</u>												
<u>D7237-15A</u>												
Free Cyanide	30.2	2.51	5.03	ug/L	1	25.1	3.99	104	79-121%	5	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 22K0665 - Total Suspended Solids						Water						
Blank (22K0665-BLK1)						Prepared: 11/17/22 09:52 Analyzed: 11/17/22 09:52						
<u>SM 2540 D</u>												
Total Suspended Solids	ND	5.00	5.00	mg/L	1	---	---	---	---	---	---	
Duplicate (22K0665-DUP1)						Prepared: 11/17/22 09:52 Analyzed: 11/17/22 09:52						
<u>QC Source Sample: Non-SDG (A2K0644-01)</u>												
Total Suspended Solids	ND	5.00	5.00	mg/L	1	---	ND	---	---	---	10%	SL-1
Reference (22K0665-SRM1)						Prepared: 11/17/22 09:52 Analyzed: 11/17/22 09:52						
<u>SM 2540 D</u>												
Total Suspended Solids	829			mg/L	1	828		100	85-115%	---	---	

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SAMPLE PREPARATION INFORMATION

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C						Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
<u>Batch: 22K0717</u>								
A2K0622-03	Water	EPA 8260D	11/16/22 03:20	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
A2K0622-04	Water	EPA 8260D	11/16/22 03:35	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
A2K0622-05	Water	EPA 8260D	11/16/22 03:25	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
A2K0622-06	Water	EPA 8260D	11/16/22 03:40	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
A2K0622-07	Water	EPA 8260D	11/16/22 00:35	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
A2K0622-09	Water	EPA 8260D	11/16/22 00:15	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
A2K0622-10	Water	EPA 8260D	11/16/22 03:15	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
A2K0622-11	Water	EPA 8260D	11/16/22 01:35	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
A2K0622-12	Water	EPA 8260D	11/16/22 03:30	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
<u>Batch: 22K0747</u>								
A2K0622-01	Water	EPA 8260D	11/16/22 01:35	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
A2K0622-02	Water	EPA 8260D	11/16/22 02:05	11/18/22 08:52	5mL/5mL	5mL/5mL	1.00	
<u>Batch: 22K0877</u>								
A2K0622-05RE2	Water	EPA 8260D	11/16/22 03:25	11/23/22 09:19	5mL/5mL	5mL/5mL	1.00	
A2K0622-08RE2	Water	EPA 8260D	11/16/22 02:45	11/23/22 09:19	5mL/5mL	5mL/5mL	1.00	

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

Prep: EPA 3510C (Acid Extraction)						Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
<u>Batch: 22K0824</u>								
A2K0622-01	Water	EPA 8270E SIM	11/16/22 01:35	11/22/22 07:24	980mL/2mL	1000mL/2mL	1.02	
A2K0622-02	Water	EPA 8270E SIM	11/16/22 02:05	11/22/22 07:24	920mL/2mL	1000mL/2mL	1.09	
A2K0622-03	Water	EPA 8270E SIM	11/16/22 03:20	11/22/22 07:24	930mL/2mL	1000mL/2mL	1.08	
A2K0622-04	Water	EPA 8270E SIM	11/16/22 03:35	11/22/22 07:24	950mL/2mL	1000mL/2mL	1.05	
A2K0622-05	Water	EPA 8270E SIM	11/16/22 03:25	11/22/22 07:24	960mL/2mL	1000mL/2mL	1.04	
A2K0622-06	Water	EPA 8270E SIM	11/16/22 03:40	11/22/22 07:24	970mL/2mL	1000mL/2mL	1.03	
A2K0622-07	Water	EPA 8270E SIM	11/16/22 00:35	11/22/22 07:24	960mL/2mL	1000mL/2mL	1.04	
A2K0622-07RE1	Water	EPA 8270E SIM	11/16/22 00:35	11/22/22 07:24	960mL/2mL	1000mL/2mL	1.04	
A2K0622-08	Water	EPA 8270E SIM	11/16/22 02:45	11/22/22 07:24	1050mL/2mL	1000mL/2mL	0.95	
A2K0622-08RE1	Water	EPA 8270E SIM	11/16/22 02:45	11/22/22 07:24	1050mL/2mL	1000mL/2mL	0.95	
A2K0622-09	Water	EPA 8270E SIM	11/16/22 00:15	11/22/22 07:24	1050mL/2mL	1000mL/2mL	0.95	
A2K0622-10	Water	EPA 8270E SIM	11/16/22 03:15	11/22/22 07:24	810mL/2mL	1000mL/2mL	1.23	
A2K0622-11RE1	Water	EPA 8270E SIM	11/16/22 01:35	11/22/22 07:24	1040mL/2mL	1000mL/2mL	0.96	
A2K0622-12	Water	EPA 8270E SIM	11/16/22 03:30	11/22/22 07:24	910mL/2mL	1000mL/2mL	1.10	

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SAMPLE PREPARATION INFORMATION

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

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

Prep: 1631E Mercury (H2O)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22K0887</u>							
A2K0622-01	Water	EPA 1631E-LL	11/16/22 01:35	11/23/22 11:36	20mL/20mL	20mL/20mL	1.00
A2K0622-03	Water	EPA 1631E-LL	11/16/22 03:20	11/23/22 11:36	20mL/20mL	20mL/20mL	1.00
A2K0622-05	Water	EPA 1631E-LL	11/16/22 03:25	11/23/22 11:36	20mL/20mL	20mL/20mL	1.00
A2K0622-07	Water	EPA 1631E-LL	11/16/22 00:35	11/23/22 11:36	20mL/20mL	20mL/20mL	1.00
A2K0622-08	Water	EPA 1631E-LL	11/16/22 02:45	11/23/22 11:36	20mL/20mL	20mL/20mL	1.00
A2K0622-09	Water	EPA 1631E-LL	11/16/22 00:15	11/23/22 11:36	20mL/20mL	20mL/20mL	1.00
A2K0622-11	Water	EPA 1631E-LL	11/16/22 01:35	11/23/22 11:36	20mL/20mL	20mL/20mL	1.00
A2K0622-12	Water	EPA 1631E-LL	11/16/22 03:30	11/23/22 11:36	20mL/20mL	20mL/20mL	1.00
<u>Batch: 22L0079</u>							
A2K0622-10RE1	Water	EPA 1631E-LL	11/16/22 03:15	12/02/22 16:33	5mL/20mL	20mL/20mL	4.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22K0723</u>							
A2K0622-01	Water	EPA 6020B	11/16/22 01:35	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-01RE1	Water	EPA 6020B	11/16/22 01:35	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-02	Water	EPA 6020B	11/16/22 02:05	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-03	Water	EPA 6020B	11/16/22 03:20	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-03RE1	Water	EPA 6020B	11/16/22 03:20	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-04	Water	EPA 6020B	11/16/22 03:35	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-05	Water	EPA 6020B	11/16/22 03:25	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-05RE1	Water	EPA 6020B	11/16/22 03:25	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-06	Water	EPA 6020B	11/16/22 03:40	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-07	Water	EPA 6020B	11/16/22 00:35	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-08	Water	EPA 6020B	11/16/22 02:45	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-09	Water	EPA 6020B	11/16/22 00:15	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-10	Water	EPA 6020B	11/16/22 03:15	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-11	Water	EPA 6020B	11/16/22 01:35	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00
A2K0622-12	Water	EPA 6020B	11/16/22 03:30	11/18/22 10:09	45mL/50mL	45mL/50mL	1.00

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

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SAMPLE PREPARATION INFORMATION

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

Prep: EPA 1664B - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22L0092</u>							
A2K0622-03	Water	EPA 1664B	11/16/22 03:20	12/05/22 08:17			NA
A2K0622-04	Water	EPA 1664B	11/16/22 03:35	12/05/22 08:17			NA
A2K0622-05	Water	EPA 1664B	11/16/22 03:25	12/05/22 08:17			NA
A2K0622-06	Water	EPA 1664B	11/16/22 03:40	12/05/22 08:17			NA
A2K0622-07	Water	EPA 1664B	11/16/22 00:35	12/05/22 08:17			NA
<u>Batch: 22L0404</u>							
A2K0622-01	Water	EPA 1664B	11/16/22 01:35	12/12/22 12:20			NA
A2K0622-02	Water	EPA 1664B	11/16/22 02:05	12/12/22 12:20			NA

Total Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12 (W)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22K0767</u>							
A2K0622-01	Water	D7511-12	11/16/22 01:35	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-02	Water	D7511-12	11/16/22 02:05	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-03	Water	D7511-12	11/16/22 03:20	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-04	Water	D7511-12	11/16/22 03:35	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-05	Water	D7511-12	11/16/22 03:25	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-06	Water	D7511-12	11/16/22 03:40	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-07	Water	D7511-12	11/16/22 00:35	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-08	Water	D7511-12	11/16/22 02:45	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-09	Water	D7511-12	11/16/22 00:15	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-10	Water	D7511-12	11/16/22 03:15	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-11	Water	D7511-12	11/16/22 01:35	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00
A2K0622-12	Water	D7511-12	11/16/22 03:30	11/21/22 08:08	10mL/10mL	10mL/10mL	1.00

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 22K0686</u>							
A2K0622-11	Water	D6888-09	11/16/22 01:35	11/17/22 11:58	5mL/5mL	5mL/5mL	1.00
A2K0622-12	Water	D6888-09	11/16/22 03:30	11/17/22 11:58	5mL/5mL	5mL/5mL	1.00

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SAMPLE PREPARATION INFORMATION

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: 22K0668</u>							
A2K0622-11	Water	D7237-15A	11/16/22 01:35	11/17/22 09:02	5mL/5mL	5mL/5mL	1.00
A2K0622-12	Water	D7237-15A	11/16/22 03:30	11/17/22 09:02	5mL/5mL	5mL/5mL	1.00

Cyanide Interference Testing

<u>Prep: Method Prep: Ag</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22K0649</u>							
A2K0622-08	Water	D7365-09a	11/16/22 02:45	11/16/22 14:49	1mL/1mL	1mL/1mL	NA

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: 22K0665</u>							
A2K0622-07	Water	SM 2540 D	11/16/22 00:35	11/17/22 09:52			NA
A2K0622-11	Water	SM 2540 D	11/16/22 01:35	11/17/22 09:52			NA
A2K0622-12	Water	SM 2540 D	11/16/22 03:30	11/17/22 09:52			NA

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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:
A2K0622 - 12 27 22 1313

QUALIFIER DEFINITIONS

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

Apex Laboratories

- B** Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- CN-03** Mitigation of detected interferences performed in the laboratory prior to preservation, and within 24 hours of sampling.
- COMP** Sample is a composite of discrete samples. See prep information for details.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- 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-16** Reanalysis of an original Batch QC sample.
- Q-30** Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +12%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +13%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54d** 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-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +34%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +4%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +5%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +6%. The results are reported as Estimated Values.
- Q-54i** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +7%. The results are reported as Estimated Values.
- Q-54j** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +8%. The results are reported as Estimated Values.

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- Q-54k** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +9%. The results are reported as Estimated Values.
- Q-54l** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -7%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-03** Sample re-extract, or the analysis of an associated Batch QC sample, confirms surrogate failure due to sample matrix effect.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- S-06** Surrogate recovery is outside of established control limits.
- SL-1** Result is considered an estimated value. Less than 1 liter of sample was used in analysis and the method minimum residue of 2.5 mg was not met. Reporting level adjusted based on sample volume used.

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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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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Monthly (2022)), and Report ID (A2K0622 - 12 27 22 1313).

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

Handwritten signature of Darwin Thomas

Darwin Thomas, Business Development Director

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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Monthly (2022)), and Report ID (A2K0622 - 12 27 22 1313)

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.

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APEX LABS

CHAIN OF CUSTODY

COC # of _____
Lab #

12232 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: Deane Snyder, Matt Hild Savage, Simon Simons

SAMPLED	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	# OF CONTAINER	Project Mgr: Chip Byrd		Project Name: Gasco -- Monthly		Project #
							Phone: (716) 583-2754	Fax:	E-mail: cbyrd@sevenson.com		
SI-111622-96		11/16/22	0135	W	10	X	X	X	X	X	X
SE-111622-96		11/16/22	0105	W	12	X	X	X	X	X	X
KOP-111622-96		11/16/22	0105	W	10	X	X	X	X	X	X
NWI-111622-96		11/16/22	0310	W	10	X	X	X	X	X	X
NWE-111622-96		11/16/22	0325	W	9	X	X	X	X	X	X
TWIA-111622-96		11/16/22	0315	W	10	X	X	X	X	X	X
TWIB-111622-96		11/16/22	0310	W	10	X	X	X	X	X	X
TWE-111622-96		11/16/22	0340	W	9	X	X	X	X	X	X
TPI-111622-96		11/16/22	0035	W	11	X	X	X	X	X	X
PGAC-111622-96		11/16/22	0145	W	9	X	X	X	X	X	X
GACM1-111622-96		11/16/22	0115	W	9	X	X	X	X	X	X
GACM2-111622-96		11/16/22	0135	W	9	X	X	X	X	X	X
GACF1-111622-96		11/16/22	0135	W	10	X	X	X	X	X	X
GACF2-111622-96		11/16/22	0330	W	10	X	X	X	X	X	X
APEX Trip Blank (EPA1631E Mercury)											

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: [Signature] Date: 11-16-22
Printed Name: Deane Snyder Time: 440
Company: SES

RECEIVED BY: _____
Signature: [Signature] Date: 11/16/22
Printed Name: El DMV Time: 440
Company: APEX LABS

SPECIAL INSTRUCTIONS:

RELINQUISHED BY: _____	RECEIVED BY: _____
Signature: _____	Signature: _____
Date: _____	Date: _____
Printed Name: _____	Printed Name: _____
Company: _____	Company: _____

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Deane Thomas

Darwin Thomas, Business Development Director



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APEX LABS COOLER RECEIPT FORM

Client: Sevenson **Element WO#:** A2 K0622

Project/Project #: Gasco - Monthly

Delivery Info:

Date/time received: 11/16/22 @ 940 **By:** EST

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

Cooler Inspection **Date/time inspected:** 11/16/22 @ 1041 **By:** EST

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)	1.6	2.5	3.3	0.6	1.1		
Received on ice? (Y/N)	Y	Y	Y	Y	Y		
Temp. blanks? (Y/N)	Y	Y	Y	Y	Y		
Ice type: (Gel/Real/Other)	gel	gel	gel	gel	gel		
Condition (In/Out):	In	In	In	In	In		

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:** 11/16/22 @ 14:09 **By:** AW

All samples intact? Yes No **Comments:** _____

Bottle labels/COCs agree? Yes No **Comments:** 10/10 containers SI-111622-96 time reads 0145, 125ml brown poly TWIA-111622-96 missing date

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: GACM2-111622-96 1/3 VOAs have headspace

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

Comments: SI, NWI, TWIA 125ml brown poly vials PH appropriate PH 9.

Additional information: _____

Labeled by: WJ

Witness: KAM / APEX WAS + METALS

Cooler Inspected by: AW
Form Y-003 R-00

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