



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Wednesday, September 14, 2022

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

RE: A2H0777 - 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 A2H0777, which was received by the laboratory on 8/24/2022 at 10:08:00AM.

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	4.8 degC	Cooler #2	3.1 degC
Cooler #3	4.5 degC	Cooler #4	5.2 degC
Cooler #5	3.9 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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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

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

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: A2H0777 - 09 14 22 1127
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SI-082422-93	A2H0777-01	Water	08/24/22 00:00	08/24/22 10:08
SE-082422-93	A2H0777-02	Water	08/24/22 00:15	08/24/22 10:08
NWI-082422-93	A2H0777-03	Water	08/24/22 00:35	08/24/22 10:08
NWE-082422-93	A2H0777-04	Water	08/24/22 00:50	08/24/22 10:08
TWIA-082422-93	A2H0777-05	Water	08/24/22 01:00	08/24/22 10:08
TWIB-082422-93	A2H0777-06	Water	08/24/22 01:15	08/24/22 10:08
TWE-082422-93	A2H0777-07	Water	08/24/22 01:30	08/24/22 10:08
TPI-082422-93	A2H0777-08	Water	08/24/22 00:45	08/24/22 10:08
PGAC-082422-93	A2H0777-09	Water	08/24/22 00:15	08/24/22 10:08
GACM1-082422-93	A2H0777-10	Water	08/24/22 01:30	08/24/22 10:08
GACF1-082422-93	A2H0777-11	Water	08/24/22 01:45	08/24/22 10:08

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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-082422-93 (A2H0777-01)			Matrix: Water			Batch: 22H0837		
Acetone	ND	100	200	ug/L	10	08/25/22 21:33	EPA 8260D	
Acrylonitrile	ND	10.0	20.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Benzene	235	1.00	2.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Bromobenzene	ND	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Bromochloromethane	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Bromodichloromethane	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Bromoform	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Bromomethane	ND	50.0	50.0	ug/L	10	08/25/22 21:33	EPA 8260D	
2-Butanone (MEK)	ND	50.0	100	ug/L	10	08/25/22 21:33	EPA 8260D	
n-Butylbenzene	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Carbon disulfide	ND	50.0	100	ug/L	10	08/25/22 21:33	EPA 8260D	
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Chlorobenzene	4.60	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	J
Chloroethane	ND	50.0	50.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Chloroform	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Chloromethane	ND	25.0	50.0	ug/L	10	08/25/22 21:33	EPA 8260D	
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Dibromochloromethane	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Dibromomethane	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	08/25/22 21:33	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	08/25/22 21:33	EPA 8260D	
1,1-Dichloroethene	ND	2.00	4.00	ug/L	10	08/25/22 21:33	EPA 8260D	
cis-1,2-Dichloroethene	5.50	2.00	4.00	ug/L	10	08/25/22 21:33	EPA 8260D	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	08/25/22 21:33	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-082422-93 (A2H0777-01)				Matrix: Water		Batch: 22H0837		
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
Ethylbenzene	126	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	08/25/22 21:33	EPA 8260D	
2-Hexanone	ND	50.0	100	ug/L	10	08/25/22 21:33	EPA 8260D	
Isopropylbenzene	6.50	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	J
4-Isopropyltoluene	5.30	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	J
Methylene chloride	ND	50.0	100	ug/L	10	08/25/22 21:33	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	50.0	100	ug/L	10	08/25/22 21:33	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
n-Propylbenzene	ND	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Styrene	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	08/25/22 21:33	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Tetrachloroethene (PCE)	ND	2.00	4.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Toluene	5.50	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	08/25/22 21:33	EPA 8260D	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Trichloroethene (TCE)	ND	2.00	4.00	ug/L	10	08/25/22 21:33	EPA 8260D	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,2,4-Trimethylbenzene	29.2	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
1,3,5-Trimethylbenzene	8.90	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	J
Vinyl chloride	8.60	2.00	4.00	ug/L	10	08/25/22 21:33	EPA 8260D	
m,p-Xylene	66.0	5.00	10.0	ug/L	10	08/25/22 21:33	EPA 8260D	
o-Xylene	36.9	2.50	5.00	ug/L	10	08/25/22 21:33	EPA 8260D	

Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 98 % Limits: 80-120 % 1 08/25/22 21:33 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-082422-93 (A2H0777-01)				Matrix: Water		Batch: 22H0837		
<i>Surrogate: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 21:33</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 21:33</i>	<i>EPA 8260D</i>
SE-082422-93 (A2H0777-02)				Matrix: Water		Batch: 22H0837		
Acetone	ND	10.0	20.0	ug/L	1	08/25/22 21:06	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Benzene	75.9	0.100	0.200	ug/L	1	08/25/22 21:06	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	08/25/22 21:06	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	08/25/22 21:06	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	08/25/22 21:06	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Chlorobenzene	2.01	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	08/25/22 21:06	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,2-Dichlorobenzene	1.04	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
1,4-Dichlorobenzene	0.390	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	J
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 21:06	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	08/25/22 21:06	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-082422-93 (A2H0777-02)			Matrix: Water			Batch: 22H0837		
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 21:06	EPA 8260D	
cis-1,2-Dichloroethene	1.74	0.200	0.400	ug/L	1	08/25/22 21:06	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 21:06	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Ethylbenzene	50.0	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	08/25/22 21:06	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	08/25/22 21:06	EPA 8260D	
Isopropylbenzene	1.59	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
4-Isopropyltoluene	0.740	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	J
Methylene chloride	ND	5.00	10.0	ug/L	1	08/25/22 21:06	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	08/25/22 21:06	EPA 8260D	
Methyl tert-butyl ether (MTBE)	1.93	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
n-Propylbenzene	0.620	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	08/25/22 21:06	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	08/25/22 21:06	EPA 8260D	
Toluene	2.04	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 21:06	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	08/25/22 21:06	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,2,4-Trimethylbenzene	18.1	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
1,3,5-Trimethylbenzene	4.40	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
Vinyl chloride	0.920	0.200	0.400	ug/L	1	08/25/22 21:06	EPA 8260D	

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Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SE-082422-93 (A2H0777-02)			Matrix: Water			Batch: 22H0837		
m,p-Xylene	31.7	0.500	1.00	ug/L	1	08/25/22 21:06	EPA 8260D	
o-Xylene	23.1	0.250	0.500	ug/L	1	08/25/22 21:06	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 21:06</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 21:06</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 21:06</i>	<i>EPA 8260D</i>
NWI-082422-93 (A2H0777-03)			Matrix: Water			Batch: 22H0837		
Acetone	ND	20.0	40.0	ug/L	2	08/25/22 22:01	EPA 8260D	
Acrylonitrile	ND	2.00	4.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Bromobenzene	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Bromochloromethane	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Bromodichloromethane	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Bromomethane	ND	10.0	10.0	ug/L	2	08/25/22 22:01	EPA 8260D	
2-Butanone (MEK)	ND	10.0	20.0	ug/L	2	08/25/22 22:01	EPA 8260D	
n-Butylbenzene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
sec-Butylbenzene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
tert-Butylbenzene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Carbon disulfide	ND	10.0	20.0	ug/L	2	08/25/22 22:01	EPA 8260D	
Carbon tetrachloride	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Chlorobenzene	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Chloroethane	ND	10.0	10.0	ug/L	2	08/25/22 22:01	EPA 8260D	
Chloroform	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Chloromethane	ND	5.00	10.0	ug/L	2	08/25/22 22:01	EPA 8260D	
2-Chlorotoluene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
4-Chlorotoluene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Dibromochloromethane	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	10.0	ug/L	2	08/25/22 22:01	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Dibromomethane	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,2-Dichlorobenzene	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,3-Dichlorobenzene	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,4-Dichlorobenzene	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Dichlorodifluoromethane	ND	1.00	2.00	ug/L	2	08/25/22 22:01	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-03)			Matrix: Water			Batch: 22H0837		
1,1-Dichloroethane	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
1,1-Dichloroethene	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
1,2-Dichloropropane	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,3-Dichloropropane	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
2,2-Dichloropropane	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,1-Dichloropropene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
cis-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Ethylbenzene	25.8	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Hexachlorobutadiene	ND	5.00	10.0	ug/L	2	08/25/22 22:01	EPA 8260D	
2-Hexanone	ND	10.0	20.0	ug/L	2	08/25/22 22:01	EPA 8260D	
Isopropylbenzene	1.22	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	J
4-Isopropyltoluene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Methylene chloride	ND	10.0	20.0	ug/L	2	08/25/22 22:01	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	10.0	20.0	ug/L	2	08/25/22 22:01	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
n-Propylbenzene	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Styrene	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
Toluene	2.32	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	4.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	4.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,1,1-Trichloroethane	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
1,1,2-Trichloroethane	ND	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
Trichloroethene (TCE)	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
Trichlorofluoromethane	ND	2.00	4.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,2,3-Trichloropropane	ND	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
1,2,4-Trimethylbenzene	3.56	1.00	2.00	ug/L	2	08/25/22 22:01	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-03)			Matrix: Water			Batch: 22H0837		
1,3,5-Trimethylbenzene	1.18	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	J
Vinyl chloride	ND	0.400	0.800	ug/L	2	08/25/22 22:01	EPA 8260D	
m,p-Xylene	7.46	1.00	2.00	ug/L	2	08/25/22 22:01	EPA 8260D	
o-Xylene	5.08	0.500	1.00	ug/L	2	08/25/22 22:01	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 22:01</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 22:01</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 22:01</i>	<i>EPA 8260D</i>
NWI-082422-93 (A2H0777-03RE1)			Matrix: Water			Batch: 22H0952		
Benzene	376	2.00	4.00	ug/L	20	08/26/22 17:15	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/26/22 17:15</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/26/22 17:15</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/26/22 17:15</i>	<i>EPA 8260D</i>
NWE-082422-93 (A2H0777-04)			Matrix: Water			Batch: 22H0837		
Acetone	ND	10.0	20.0	ug/L	1	08/25/22 23:21	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Benzene	46.6	0.100	0.200	ug/L	1	08/25/22 23:21	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	08/25/22 23:21	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	08/25/22 23:21	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	08/25/22 23:21	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	08/25/22 23:21	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-04)			Matrix: Water			Batch: 22H0837		
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Ethylbenzene	2.12	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	08/25/22 23:21	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	08/25/22 23:21	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	08/25/22 23:21	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	08/25/22 23:21	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-04)			Matrix: Water			Batch: 22H0837		
Toluene	0.290	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	J
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	08/25/22 23:21	EPA 8260D	
m,p-Xylene	0.610	0.500	1.00	ug/L	1	08/25/22 23:21	EPA 8260D	J
o-Xylene	0.700	0.250	0.500	ug/L	1	08/25/22 23:21	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 23:21</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 23:21</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 23:21</i>	<i>EPA 8260D</i>

TWIA-082422-93 (A2H0777-05)			Matrix: Water			Batch: 22H0837		
Acetone	ND	100	200	ug/L	10	08/25/22 23:48	EPA 8260D	
Acrylonitrile	ND	10.0	20.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Benzene	1800	1.00	2.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Bromobenzene	ND	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Bromochloromethane	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Bromodichloromethane	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Bromoform	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Bromomethane	ND	50.0	50.0	ug/L	10	08/25/22 23:48	EPA 8260D	
2-Butanone (MEK)	ND	50.0	100	ug/L	10	08/25/22 23:48	EPA 8260D	
n-Butylbenzene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Carbon disulfide	ND	50.0	100	ug/L	10	08/25/22 23:48	EPA 8260D	
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Chlorobenzene	ND	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Chloroethane	ND	50.0	50.0	ug/L	10	08/25/22 23:48	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-05)			Matrix: Water			Batch: 22H0837		
Chloroform	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Chloromethane	ND	25.0	50.0	ug/L	10	08/25/22 23:48	EPA 8260D	
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Dibromochloromethane	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Dibromomethane	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
1,1-Dichloroethene	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
cis-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Ethylbenzene	140	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	08/25/22 23:48	EPA 8260D	
2-Hexanone	ND	50.0	100	ug/L	10	08/25/22 23:48	EPA 8260D	
Isopropylbenzene	10.6	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
Methylene chloride	ND	50.0	100	ug/L	10	08/25/22 23:48	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	50.0	100	ug/L	10	08/25/22 23:48	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
n-Propylbenzene	4.80	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	J
Styrene	ND	5.00	10.0	ug/L	10	08/25/22 23:48	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-05)			Matrix: Water			Batch: 22H0837		
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Tetrachloroethene (PCE)	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Toluene	9.70	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Trichloroethene (TCE)	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,2,4-Trimethylbenzene	29.4	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
1,3,5-Trimethylbenzene	5.60	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	J
Vinyl chloride	ND	2.00	4.00	ug/L	10	08/25/22 23:48	EPA 8260D	
m,p-Xylene	47.2	5.00	10.0	ug/L	10	08/25/22 23:48	EPA 8260D	
o-Xylene	38.6	2.50	5.00	ug/L	10	08/25/22 23:48	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 23:48</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 23:48</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 23:48</i>	<i>EPA 8260D</i>

TWIB-082422-93 (A2H0777-06)			Matrix: Water			Batch: 22H0837		
Acetone	ND	1000	2000	ug/L	100	08/25/22 22:54	EPA 8260D	
Acrylonitrile	ND	100	200	ug/L	100	08/25/22 22:54	EPA 8260D	
Benzene	9290	10.0	20.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Bromobenzene	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Bromochloromethane	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
Bromodichloromethane	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
Bromoform	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
Bromomethane	ND	500	500	ug/L	100	08/25/22 22:54	EPA 8260D	
2-Butanone (MEK)	ND	500	1000	ug/L	100	08/25/22 22:54	EPA 8260D	
n-Butylbenzene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
sec-Butylbenzene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
tert-Butylbenzene	ND	50.0	100	ug/L	100	08/25/22 22:54	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: A2H0777 - 09 14 22 1127
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWIB-082422-93 (A2H0777-06)			Matrix: Water			Batch: 22H0837		
Carbon disulfide	ND	500	1000	ug/L	100	08/25/22 22:54	EPA 8260D	
Carbon tetrachloride	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
Chlorobenzene	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Chloroethane	ND	500	500	ug/L	100	08/25/22 22:54	EPA 8260D	
Chloroform	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
Chloromethane	ND	250	500	ug/L	100	08/25/22 22:54	EPA 8260D	
2-Chlorotoluene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
4-Chlorotoluene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
Dibromochloromethane	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	250	500	ug/L	100	08/25/22 22:54	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Dibromomethane	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
1,2-Dichlorobenzene	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
1,3-Dichlorobenzene	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
1,4-Dichlorobenzene	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Dichlorodifluoromethane	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
1,1-Dichloroethane	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
1,1-Dichloroethene	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
cis-1,2-Dichloroethene	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
trans-1,2-Dichloroethene	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
1,2-Dichloropropane	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
1,3-Dichloropropane	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
2,2-Dichloropropane	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
1,1-Dichloropropene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
cis-1,3-Dichloropropene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
trans-1,3-Dichloropropene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
Ethylbenzene	642	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Hexachlorobutadiene	ND	250	500	ug/L	100	08/25/22 22:54	EPA 8260D	
2-Hexanone	ND	500	1000	ug/L	100	08/25/22 22:54	EPA 8260D	
Isopropylbenzene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
4-Isopropyltoluene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
Methylene chloride	ND	500	1000	ug/L	100	08/25/22 22:54	EPA 8260D	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2H0777 - 09 14 22 1127
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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWIB-082422-93 (A2H0777-06)			Matrix: Water			Batch: 22H0837		
4-Methyl-2-pentanone (MiBK)	ND	500	1000	ug/L	100	08/25/22 22:54	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
n-Propylbenzene	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Styrene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Tetrachloroethene (PCE)	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Toluene	244	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
1,2,3-Trichlorobenzene	ND	100	200	ug/L	100	08/25/22 22:54	EPA 8260D	
1,2,4-Trichlorobenzene	ND	100	200	ug/L	100	08/25/22 22:54	EPA 8260D	
1,1,1-Trichloroethane	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
1,1,2-Trichloroethane	ND	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Trichloroethene (TCE)	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
Trichlorofluoromethane	ND	100	200	ug/L	100	08/25/22 22:54	EPA 8260D	
1,2,3-Trichloropropane	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
1,2,4-Trimethylbenzene	88.0	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
Vinyl chloride	ND	20.0	40.0	ug/L	100	08/25/22 22:54	EPA 8260D	
m,p-Xylene	181	50.0	100	ug/L	100	08/25/22 22:54	EPA 8260D	
o-Xylene	163	25.0	50.0	ug/L	100	08/25/22 22:54	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 22:54</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 22:54</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 22:54</i>	<i>EPA 8260D</i>

TWE-082422-93 (A2H0777-07)			Matrix: Water			Batch: 22H0837		
Acetone	ND	50.0	100	ug/L	5	08/25/22 22:27	EPA 8260D	
Acrylonitrile	ND	5.00	10.0	ug/L	5	08/25/22 22:27	EPA 8260D	
Benzene	212	0.500	1.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Bromobenzene	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
Bromochloromethane	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Bromoform	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Bromomethane	ND	25.0	25.0	ug/L	5	08/25/22 22:27	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-07)			Matrix: Water			Batch: 22H0837		
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	08/25/22 22:27	EPA 8260D	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Carbon disulfide	ND	25.0	50.0	ug/L	5	08/25/22 22:27	EPA 8260D	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Chlorobenzene	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	5	08/25/22 22:27	EPA 8260D	
Chloroform	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Chloromethane	ND	12.5	25.0	ug/L	5	08/25/22 22:27	EPA 8260D	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	08/25/22 22:27	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
Dibromomethane	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,1-Dichloroethene	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
cis-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
trans-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Ethylbenzene	13.6	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	08/25/22 22:27	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-07)			Matrix: Water			Batch: 22H0837		
2-Hexanone	ND	25.0	50.0	ug/L	5	08/25/22 22:27	EPA 8260D	
Isopropylbenzene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Methylene chloride	ND	25.0	50.0	ug/L	5	08/25/22 22:27	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	08/25/22 22:27	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
n-Propylbenzene	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
Styrene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Toluene	5.45	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	08/25/22 22:27	EPA 8260D	
1,2,4-Trichlorobenzene	ND	5.00	10.0	ug/L	5	08/25/22 22:27	EPA 8260D	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
Trichloroethene (TCE)	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	08/25/22 22:27	EPA 8260D	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
1,2,4-Trimethylbenzene	4.95	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	J
1,3,5-Trimethylbenzene	ND	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
Vinyl chloride	ND	1.00	2.00	ug/L	5	08/25/22 22:27	EPA 8260D	
m,p-Xylene	5.60	2.50	5.00	ug/L	5	08/25/22 22:27	EPA 8260D	
o-Xylene	5.80	1.25	2.50	ug/L	5	08/25/22 22:27	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 22:27</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 22:27</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 22:27</i>	<i>EPA 8260D</i>

TPI-082422-93 (A2H0777-08)			Matrix: Water			Batch: 22H0837		
Acetone	ND	10.0	20.0	ug/L	1	08/25/22 17:57	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Benzene	111	0.100	0.200	ug/L	1	08/25/22 17:57	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	08/25/22 17:57	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-08)			Matrix: Water			Batch: 22H0837		
Bromochloromethane	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	08/25/22 17:57	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	08/25/22 17:57	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	08/25/22 17:57	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Chlorobenzene	0.590	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	08/25/22 17:57	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,2-Dichlorobenzene	0.290	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	J
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	
cis-1,2-Dichloroethene	0.520	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 17:57	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-08)			Matrix: Water			Batch: 22H0837		
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Ethylbenzene	17.6	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	08/25/22 17:57	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	08/25/22 17:57	EPA 8260D	
Isopropylbenzene	0.810	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	J
4-Isopropyltoluene	0.660	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	J
Methylene chloride	ND	5.00	10.0	ug/L	1	08/25/22 17:57	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	08/25/22 17:57	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.610	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	J
n-Propylbenzene	0.270	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	J
Styrene	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	
Toluene	2.55	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,2,4-Trimethylbenzene	5.69	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
1,3,5-Trimethylbenzene	2.00	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
Vinyl chloride	0.310	0.200	0.400	ug/L	1	08/25/22 17:57	EPA 8260D	J
m,p-Xylene	9.20	0.500	1.00	ug/L	1	08/25/22 17:57	EPA 8260D	
o-Xylene	7.24	0.250	0.500	ug/L	1	08/25/22 17:57	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 17:57</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 17:57</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 17:57</i>	<i>EPA 8260D</i>

PGAC-082422-93 (A2H0777-09) Matrix: Water Batch: 22H0837

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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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-09)			Matrix: Water			Batch: 22H0837		
Acetone	ND	20.0	20.0	ug/L	1	08/25/22 18:24	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Benzene	54.9	0.100	0.200	ug/L	1	08/25/22 18:24	EPA 8260D	
Bromobenzene	0.260	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	J
Bromochloromethane	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Bromodichloromethane	19.3	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	08/25/22 18:24	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	08/25/22 18:24	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	08/25/22 18:24	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Chlorobenzene	7.85	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Chloroform	130	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	08/25/22 18:24	EPA 8260D	
2-Chlorotoluene	1.02	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Dibromochloromethane	2.12	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	Q-54a
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,2-Dichlorobenzene	0.300	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	J
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	
cis-1,2-Dichloroethene	0.410	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
PGAC-082422-93 (A2H0777-09)			Matrix: Water			Batch: 22H0837		
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	08/25/22 18:24	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	08/25/22 18:24	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	08/25/22 18:24	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	08/25/22 18:24	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.600	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	08/25/22 18:24	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	08/25/22 18:24	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	08/25/22 18:24	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 18:24</i>	<i>EPA 8260D</i>

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-09)			Matrix: Water			Batch: 22H0837		
<i>Surrogate: Toluene-d8 (Surr)</i>		<i>Recovery: 85 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 18:24</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>90 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 18:24</i>	<i>EPA 8260D</i>
GACM1-082422-93 (A2H0777-10)			Matrix: Water			Batch: 22H0837		
Acetone	ND	10.0	20.0	ug/L	1	08/25/22 18:51	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Benzene	0.230	0.100	0.200	ug/L	1	08/25/22 18:51	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Bromodichloromethane	28.8	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Bromoform	1.04	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	08/25/22 18:51	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	08/25/22 18:51	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	08/25/22 18:51	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Chloroform	156	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	08/25/22 18:51	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Dibromochloromethane	6.34	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	Q-54a
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 18:51	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	08/25/22 18:51	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2H0777 - 09 14 22 1127
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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
GACM1-082422-93 (A2H0777-10)				Matrix: Water		Batch: 22H0837		
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 18:51	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 18:51	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 18:51	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	08/25/22 18:51	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	08/25/22 18:51	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	08/25/22 18:51	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	08/25/22 18:51	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.750	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	08/25/22 18:51	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	08/25/22 18:51	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 18:51	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	08/25/22 18:51	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	08/25/22 18:51	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: A2H0777 - 09 14 22 1127
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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
GACM1-082422-93 (A2H0777-10)			Matrix: Water			Batch: 22H0837		
m,p-Xylene	ND	0.500	1.00	ug/L	1	08/25/22 18:51	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	08/25/22 18:51	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 18:51</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 18:51</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 18:51</i>	<i>EPA 8260D</i>
GACF1-082422-93 (A2H0777-11)			Matrix: Water			Batch: 22H0837		
Acetone	ND	10.0	20.0	ug/L	1	08/25/22 19:45	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Benzene	0.140	0.100	0.200	ug/L	1	08/25/22 19:45	EPA 8260D	J
Bromobenzene	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Bromodichloromethane	24.3	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	08/25/22 19:45	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	08/25/22 19:45	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	08/25/22 19:45	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Chloroform	152	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	08/25/22 19:45	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Dibromochloromethane	3.58	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	Q-54a
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	08/25/22 19:45	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	

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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: A2H0777 - 09 14 22 1127
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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
GACF1-082422-93 (A2H0777-11)			Matrix: Water			Batch: 22H0837		
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	08/25/22 19:45	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	08/25/22 19:45	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	08/25/22 19:45	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	08/25/22 19:45	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.780	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	J
n-Propylbenzene	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	Q-42
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
Toluene	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 19:45	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	08/25/22 19:45	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	08/25/22 19:45	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2H0777 - 09 14 22 1127
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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
GACF1-082422-93 (A2H0777-11)			Matrix: Water			Batch: 22H0837		
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	08/25/22 19:45	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	08/25/22 19:45	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	08/25/22 19:45	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>08/25/22 19:45</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 19:45</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>08/25/22 19:45</i>	<i>EPA 8260D</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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-01)			Matrix: Water			Batch: 22H0975		
Acenaphthene	115	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Acenaphthylene	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Anthracene	13.7	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	J
Benz(a)anthracene	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Benzo(a)pyrene	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Chrysene	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Fluoranthene	11.1	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	J
Fluorene	34.8	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
1-Methylnaphthalene	183	20.0	40.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
2-Methylnaphthalene	252	20.0	40.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Naphthalene	2980	20.0	40.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Phenanthrene	82.2	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
Pyrene	11.5	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	J
Dibenzofuran	ND	10.0	20.0	ug/L	500	08/29/22 16:30	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 84 %</i>		<i>Limits: 44-120 %</i>	<i>500</i>	<i>08/29/22 16:30</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>87 %</i>		<i>50-134 %</i>	<i>500</i>	<i>08/29/22 16:30</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

SE-082422-93 (A2H0777-02)			Matrix: Water			Batch: 22H0975		
Acenaphthene	182	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM	
Acenaphthylene	ND	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM	
Anthracene	14.4	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM	
Benz(a)anthracene	5.62	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM	J
Benzo(a)pyrene	ND	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM	
Chrysene	5.69	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM	J
Dibenz(a,h)anthracene	ND	4.08	8.16	ug/L	200	08/29/22 16:56	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-02)			Matrix: Water			Batch: 22H0975			
Fluoranthene	23.0	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM		
Fluorene	62.6	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	ND	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM		
1-Methylnaphthalene	226	8.16	16.3	ug/L	200	08/29/22 16:56	EPA 8270E SIM		
2-Methylnaphthalene	293	8.16	16.3	ug/L	200	08/29/22 16:56	EPA 8270E SIM		
Naphthalene	2560	8.16	16.3	ug/L	200	08/29/22 16:56	EPA 8270E SIM		
Phenanthrene	151	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM		
Pyrene	25.1	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM		
Dibenzofuran	12.7	4.08	8.16	ug/L	200	08/29/22 16:56	EPA 8270E SIM		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 82 %</i>		<i>Limits: 44-120 %</i>		<i>200</i>	<i>08/29/22 16:56</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>71 %</i>		<i>50-134 %</i>		<i>200</i>	<i>08/29/22 16:56</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
NWI-082422-93 (A2H0777-03)			Matrix: Water			Batch: 22H0975			
Acenaphthene	12.5	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Acenaphthylene	ND	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Anthracene	2.29	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Benz(a)anthracene	ND	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Benzo(a)pyrene	ND	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Benzo(b)fluoranthene	ND	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Benzo(k)fluoranthene	ND	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Benzo(g,h,i)perylene	ND	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Chrysene	ND	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Fluoranthene	3.04	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Fluorene	5.21	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	ND	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
1-Methylnaphthalene	21.4	2.06	4.12	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
2-Methylnaphthalene	29.7	2.06	4.12	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Naphthalene	238	2.06	4.12	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Phenanthrene	16.6	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Pyrene	3.39	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM		
Dibenzofuran	1.61	1.03	2.06	ug/L	50	08/29/22 17:21	EPA 8270E SIM	J	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 83 %</i>		<i>Limits: 44-120 %</i>		<i>50</i>	<i>08/29/22 17:21</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

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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: A2H0777 - 09 14 22 1127
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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: 22H0975		
<i>Surrogate: p-Terphenyl-d14 (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 50-134 %</i>		<i>50</i>		<i>08/29/22 17:21 EPA 8270E SIM S-05</i>
			Matrix: Water			Batch: 22H0975		
Acenaphthene	6.74	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Acenaphthylene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Anthracene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Benz(a)anthracene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Chrysene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Fluoranthene	1.90	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Fluorene	2.29	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
1-Methylnaphthalene	3.27	1.65	3.30	ug/L	40	08/29/22 17:46	EPA 8270E SIM	J
2-Methylnaphthalene	ND	1.65	3.30	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Naphthalene	ND	1.65	3.30	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Phenanthrene	5.58	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Pyrene	1.83	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
Dibenzofuran	ND	0.825	1.65	ug/L	40	08/29/22 17:46	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 83 %</i>		<i>Limits: 44-120 %</i>		<i>40</i>		<i>08/29/22 17:46 EPA 8270E SIM S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>85 %</i>		<i>50-134 %</i>		<i>40</i>		<i>08/29/22 17:46 EPA 8270E SIM S-05</i>

TWIA-082422-93 (A2H0777-05) Matrix: Water Batch: 22H0975

Acenaphthene	99.4	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	
Acenaphthylene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	
Anthracene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	
Benz(a)anthracene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	
Benzo(a)pyrene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	

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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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-05)			Matrix: Water			Batch: 22H0975			
Chrysene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM		
Fluoranthene	6.14	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	J	
Fluorene	13.8	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM		
1-Methylnaphthalene	78.9	8.00	16.0	ug/L	200	08/29/22 18:12	EPA 8270E SIM		
2-Methylnaphthalene	23.0	8.00	16.0	ug/L	200	08/29/22 18:12	EPA 8270E SIM		
Naphthalene	1050	8.00	16.0	ug/L	200	08/29/22 18:12	EPA 8270E SIM		
Phenanthrene	12.4	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM		
Pyrene	6.38	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM	J	
Dibenzofuran	ND	4.00	8.00	ug/L	200	08/29/22 18:12	EPA 8270E SIM		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 71 %</i>		<i>Limits: 44-120 %</i>		<i>200</i>	<i>08/29/22 18:12</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>70 %</i>		<i>50-134 %</i>		<i>200</i>	<i>08/29/22 18:12</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

TWIB-082422-93 (A2H0777-06)			Matrix: Water			Batch: 22H0975		
Acenaphthene	1400	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Acenaphthylene	ND	51.9	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Anthracene	475	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Benz(a)anthracene	210	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Benzo(a)pyrene	177	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Benzo(b)fluoranthene	166	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Benzo(k)fluoranthene	60.5	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	M-05
Benzo(g,h,i)perylene	111	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Chrysene	281	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Fluoranthene	1060	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Fluorene	617	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	124	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
1-Methylnaphthalene	1550	51.9	104	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
2-Methylnaphthalene	2220	51.9	104	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Naphthalene	4380	51.9	104	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Phenanthrene	3060	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
Pyrene	1250	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	

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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: A2H0777 - 09 14 22 1127
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ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TWIB-082422-93 (A2H0777-06)			Matrix: Water			Batch: 22H0975		
Dibenzofuran	105	26.0	51.9	ug/L	1000	08/29/22 18:37	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 44-120 % 1000</i>		<i>08/29/22 18:37</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>%</i>		<i>50-134 % 1000</i>		<i>08/29/22 18:37</i>	<i>EPA 8270E SIM</i>	<i>S-01</i>
TWE-082422-93 (A2H0777-07)			Matrix: Water			Batch: 22H0975		
Acenaphthene	261	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Acenaphthylene	ND	6.25	6.25	ug/L	100	08/29/22 19:02	EPA 8270E SIM	R-02
Anthracene	40.8	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Benz(a)anthracene	11.6	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Benzo(a)pyrene	9.23	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Benzo(b)fluoranthene	8.56	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Benzo(k)fluoranthene	3.16	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	J
Benzo(g,h,i)perylene	5.84	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Chrysene	15.1	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Fluoranthene	69.4	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Fluorene	101	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	6.96	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
1-Methylnaphthalene	247	4.17	8.33	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
2-Methylnaphthalene	269	4.17	8.33	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Naphthalene	426	4.17	8.33	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Phenanthrene	322	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Pyrene	78.8	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
Dibenzofuran	18.5	2.08	4.17	ug/L	100	08/29/22 19:02	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 81 %</i>		<i>Limits: 44-120 % 100</i>		<i>08/29/22 19:02</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>55 %</i>		<i>50-134 % 100</i>		<i>08/29/22 19:02</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
TPI-082422-93 (A2H0777-08)			Matrix: Water			Batch: 22H0975		
Acenaphthene	171	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM	
Acenaphthylene	ND	4.64	4.64	ug/L	50	08/29/22 19:28	EPA 8270E SIM	R-02
Anthracene	26.9	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM	
Benz(a)anthracene	3.65	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM	
Benzo(a)pyrene	2.62	1.03	2.06	ug/L	50	08/29/22 19:28	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	
TPI-082422-93 (A2H0777-08)			Matrix: Water			Batch: 22H0975			
Benzo(b)fluoranthene	2.46	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM	M-05	
Benzo(k)fluoranthene	ND	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
Benzo(g,h,i)perylene	1.62	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM	J	
Chrysene	4.68	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
Dibenz(a,h)anthracene	ND	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
Fluoranthene	29.9	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
Fluorene	67.4	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
Indeno(1,2,3-cd)pyrene	1.95	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM	J	
1-Methylnaphthalene	138	2.06	4.12	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
2-Methylnaphthalene	98.0	2.06	4.12	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
Naphthalene	243	2.06	4.12	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
Phenanthrene	188	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
Pyrene	32.4	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
Dibenzofuran	10.7	1.03	2.06	ug/L	50	08/29/22 19:28	EPA 8270E SIM		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 82 %</i>		<i>Limits: 44-120 %</i>		<i>50</i>	<i>08/29/22 19:28</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>72 %</i>		<i>50-134 %</i>		<i>50</i>	<i>08/29/22 19:28</i>	<i>EPA 8270E SIM</i>	<i>S-05</i>

PGAC-082422-93 (A2H0777-09)			Matrix: Water			Batch: 22H0975		
Acenaphthene	ND	8.46	8.46	ug/L	4	08/29/22 19:53	EPA 8270E SIM	R-02
Acenaphthylene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Anthracene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Benz(a)anthracene	ND	0.154	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Chrysene	ND	0.269	0.269	ug/L	4	08/29/22 19:53	EPA 8270E SIM	R-02
Dibenz(a,h)anthracene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Fluoranthene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Fluorene	ND	15.0	15.0	ug/L	4	08/29/22 19:53	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.154	0.308	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.154	0.308	ug/L	4	08/29/22 19:53	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: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-09)			Matrix: Water			Batch: 22H0975		
Naphthalene	ND	0.154	0.308	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Phenanthrene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Pyrene	ND	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
Dibenzofuran	3.46	0.0769	0.154	ug/L	4	08/29/22 19:53	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 44-120 %</i>		<i>4</i>	<i>08/29/22 19:53</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>62 %</i>		<i>50-134 %</i>		<i>4</i>	<i>08/29/22 19:53</i>	<i>EPA 8270E SIM</i>

GACM1-082422-93 (A2H0777-10)			Matrix: Water			Batch: 22H0975		
Acenaphthene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Acenaphthylene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Anthracene	0.0196	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	J
Benz(a)anthracene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Chrysene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Fluoranthene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Fluorene	ND	0.0377	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0377	0.0755	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Naphthalene	0.0501	0.0377	0.0755	ug/L	1	08/29/22 20:18	EPA 8270E SIM	J
Phenanthrene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Pyrene	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
Dibenzofuran	ND	0.0189	0.0377	ug/L	1	08/29/22 20:18	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 87 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>08/29/22 20:18</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>80 %</i>		<i>50-134 %</i>		<i>1</i>	<i>08/29/22 20:18</i>	<i>EPA 8270E SIM</i>

GACF1-082422-93 (A2H0777-11)			Matrix: Water			Batch: 22H0975		
Acenaphthene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Acenaphthylene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Anthracene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	

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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: A2H0777 - 09 14 22 1127
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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
GACF1-082422-93 (A2H0777-11)			Matrix: Water			Batch: 22H0975		
Benz(a)anthracene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Benzo(a)pyrene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Chrysene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Fluoranthene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Fluorene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
1-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
2-Methylnaphthalene	ND	0.0381	0.0762	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Naphthalene	0.0628	0.0381	0.0762	ug/L	1	08/29/22 20:44	EPA 8270E SIM	J
Phenanthrene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Pyrene	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
Dibenzofuran	ND	0.0190	0.0381	ug/L	1	08/29/22 20:44	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 81 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>08/29/22 20:44</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>77 %</i>		<i>50-134 %</i>		<i>1</i>	<i>08/29/22 20:44</i>	<i>EPA 8270E SIM</i>

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Darwin Thomas, Business Development Director



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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-082422-93 (A2H0777-01)				Matrix: Water		Batch: 22H0872		
Mercury	ND	0.000500	0.00100	ug/L	1	08/25/22 17:41	EPA 1631E-LL	
NWI-082422-93 (A2H0777-03)				Matrix: Water		Batch: 22H0872		
Mercury	ND	0.000500	0.00100	ug/L	1	08/25/22 17:46	EPA 1631E-LL	
TWIA-082422-93 (A2H0777-05)				Matrix: Water		Batch: 22H0872		
Mercury	ND	0.000500	0.00100	ug/L	1	08/25/22 18:01	EPA 1631E-LL	
TWIB-082422-93 (A2H0777-06)				Matrix: Water		Batch: 22H0872		
Mercury	ND	0.000500	0.00100	ug/L	1	08/25/22 18:06	EPA 1631E-LL	
TPI-082422-93 (A2H0777-08)				Matrix: Water		Batch: 22H0872		
Mercury	ND	0.000500	0.00100	ug/L	1	08/25/22 18:11	EPA 1631E-LL	
PGAC-082422-93 (A2H0777-09)				Matrix: Water		Batch: 22H0872		
Mercury	0.000964	0.000500	0.00100	ug/L	1	08/25/22 18:16	EPA 1631E-LL	J
GACM1-082422-93 (A2H0777-10)				Matrix: Water		Batch: 22H0872		
Mercury	0.000899	0.000500	0.00100	ug/L	1	08/25/22 18:21	EPA 1631E-LL	J
GACF1-082422-93 (A2H0777-11)				Matrix: Water		Batch: 22H0872		
Mercury	0.000922	0.000500	0.00100	ug/L	1	08/25/22 18:26	EPA 1631E-LL	J

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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-082422-93 (A2H0777-01) Matrix: Water								
Batch: 22H0988								
Copper	ND	5.00	10.0	ug/L	5	08/30/22 22:54	EPA 6020B	RR-1
Iron	32800	125	250	ug/L	5	08/30/22 22:54	EPA 6020B	
SI-082422-93 (A2H0777-01RE1) Matrix: Water								
Batch: 22H0988								
Copper	ND	1.00	2.00	ug/L	1	08/31/22 22:03	EPA 6020B	
SE-082422-93 (A2H0777-02) Matrix: Water								
Batch: 22H0988								
Copper	6.60	5.00	10.0	ug/L	5	08/30/22 22:59	EPA 6020B	J, R-04
Iron	34300	125	250	ug/L	5	08/30/22 22:59	EPA 6020B	
NWI-082422-93 (A2H0777-03) Matrix: Water								
Batch: 22H0988								
Copper	ND	5.00	10.0	ug/L	5	08/30/22 23:04	EPA 6020B	R-04
Iron	52600	125	250	ug/L	5	08/30/22 23:04	EPA 6020B	
NWE-082422-93 (A2H0777-04) Matrix: Water								
Batch: 22H0988								
Copper	ND	5.00	10.0	ug/L	5	08/30/22 23:08	EPA 6020B	R-04
Iron	48300	125	250	ug/L	5	08/30/22 23:08	EPA 6020B	
TWIA-082422-93 (A2H0777-05) Matrix: Water								
Batch: 22H0988								
Copper	ND	5.00	10.0	ug/L	5	08/30/22 23:13	EPA 6020B	RR-1
Iron	28500	125	250	ug/L	5	08/30/22 23:13	EPA 6020B	
TWIA-082422-93 (A2H0777-05RE1) Matrix: Water								
Batch: 22H0988								
Copper	1.16	1.00	2.00	ug/L	1	08/31/22 22:08	EPA 6020B	J
TWIB-082422-93 (A2H0777-06) Matrix: Water								
Batch: 22H0988								
Copper	ND	10.0	20.0	ug/L	10	08/30/22 23:18	EPA 6020B	RR-1
Iron	46800	250	500	ug/L	10	08/30/22 23:18	EPA 6020B	

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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: A2H0777 - 09 14 22 1127
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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
TWIB-082422-93 (A2H0777-06RE1)				Matrix: Water				
Batch: 22H0988								
Copper	ND	1.00	2.00	ug/L	1	08/31/22 22:12	EPA 6020B	
TWE-082422-93 (A2H0777-07)				Matrix: Water				
Batch: 22H0988								
Copper	ND	5.00	10.0	ug/L	5	08/30/22 23:23	EPA 6020B	R-04
Iron	48500	125	250	ug/L	5	08/30/22 23:23	EPA 6020B	
TPI-082422-93 (A2H0777-08)				Matrix: Water				
Batch: 22H0988								
Copper	ND	5.00	10.0	ug/L	5	08/30/22 23:27	EPA 6020B	R-04
Iron	42300	125	250	ug/L	5	08/30/22 23:27	EPA 6020B	
PGAC-082422-93 (A2H0777-09)				Matrix: Water				
Batch: 22H0988								
Copper	ND	5.00	10.0	ug/L	5	08/30/22 23:32	EPA 6020B	R-04
Iron	217	125	250	ug/L	5	08/30/22 23:32	EPA 6020B	J, R-04
GACM1-082422-93 (A2H0777-10)				Matrix: Water				
Batch: 22H0988								
Copper	ND	5.00	10.0	ug/L	5	08/30/22 23:37	EPA 6020B	R-04
Iron	ND	125	250	ug/L	5	08/30/22 23:37	EPA 6020B	R-04
GACF1-082422-93 (A2H0777-11)				Matrix: Water				
Batch: 22H0988								
Arsenic	1.64	0.500	1.00	ug/L	1	08/30/22 23:51	EPA 6020B	
Barium	13.1	1.00	2.00	ug/L	1	08/30/22 23:51	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	08/30/22 23:51	EPA 6020B	
Chromium	1.11	1.00	2.00	ug/L	1	08/30/22 23:51	EPA 6020B	J
Copper	ND	1.00	2.00	ug/L	1	08/30/22 23:51	EPA 6020B	
Iron	200	25.0	50.0	ug/L	1	08/30/22 23:51	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	08/30/22 23:51	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	08/30/22 23:51	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	08/30/22 23:51	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	08/30/22 23:51	EPA 6020B	

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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: A2H0777 - 09 14 22 1127
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GACF1-082422-93 (A2H0777-11)				Matrix: Water				

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2H0777 - 09 14 22 1127
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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-082422-93 (A2H0777-01)				Matrix: Water		Batch: 22H0980		
HEM (Oil and Grease)	48600	4720	4720	ug/L	1	08/31/22 12:52	EPA 1664B	
SE-082422-93 (A2H0777-02RE1)				Matrix: Water		Batch: 22I0139		
HEM (Oil and Grease)	ND	4810	4810	ug/L	1	09/09/22 14:46	EPA 1664B	PRES
NWI-082422-93 (A2H0777-03)				Matrix: Water		Batch: 22H0980		
HEM (Oil and Grease)	7430	4950	4950	ug/L	1	08/31/22 12:52	EPA 1664B	
NWE-082422-93 (A2H0777-04)				Matrix: Water		Batch: 22H0980		
HEM (Oil and Grease)	ND	4850	4850	ug/L	1	08/31/22 12:52	EPA 1664B	PRES
TWIA-082422-93 (A2H0777-05)				Matrix: Water		Batch: 22H0980		
HEM (Oil and Grease)	ND	4810	4810	ug/L	1	08/31/22 12:52	EPA 1664B	
TWIB-082422-93 (A2H0777-06)				Matrix: Water		Batch: 22H0980		
HEM (Oil and Grease)	176000	4810	4810	ug/L	1	08/31/22 12:52	EPA 1664B	
TWE-082422-93 (A2H0777-07)				Matrix: Water		Batch: 22H0980		
HEM (Oil and Grease)	10800	4720	4720	ug/L	1	08/31/22 12:52	EPA 1664B	PRES
TPI-082422-93 (A2H0777-08)				Matrix: Water		Batch: 22H0980		
HEM (Oil and Grease)	6250	4810	4810	ug/L	1	08/31/22 12:52	EPA 1664B	PRES

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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: A2H0777 - 09 14 22 1127
---	---	---

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: 22H0991		
SI-082422-93 (A2H0777-01)								
Total Cyanide	196	12.5	25.0	ug/L	5	08/29/22 12:56	D7511-12	
				Matrix: Water		Batch: 22H0991		
SE-082422-93 (A2H0777-02)								
Total Cyanide	193	12.5	25.0	ug/L	5	08/29/22 12:58	D7511-12	
				Matrix: Water		Batch: 22H0991		
NWI-082422-93 (A2H0777-03)								
Total Cyanide	130	12.5	25.0	ug/L	5	08/29/22 13:08	D7511-12	
				Matrix: Water		Batch: 22H0991		
NWE-082422-93 (A2H0777-04)								
Total Cyanide	136	12.5	25.0	ug/L	5	08/29/22 13:10	D7511-12	
				Matrix: Water		Batch: 22H0991		
TWIA-082422-93 (A2H0777-05)								
Total Cyanide	223	12.5	25.0	ug/L	5	08/29/22 13:12	D7511-12	
				Matrix: Water		Batch: 22H0991		
TWIB-082422-93 (A2H0777-06RE1)								
Total Cyanide	85.7	12.5	25.0	ug/L	5	08/29/22 14:35	D7511-12	
				Matrix: Water		Batch: 22H0991		
TWE-082422-93 (A2H0777-07RE1)								
Total Cyanide	130	12.5	25.0	ug/L	5	08/29/22 14:37	D7511-12	
				Matrix: Water		Batch: 22H0991		
TPI-082422-93 (A2H0777-08RE1)								
Total Cyanide	156	12.5	25.0	ug/L	5	08/29/22 14:39	D7511-12	
				Matrix: Water		Batch: 22H0991		
PGAC-082422-93 (A2H0777-09RE1)								
Total Cyanide	138	12.5	25.0	ug/L	5	08/29/22 14:43	D7511-12	
				Matrix: Water		Batch: 22H0991		
GACM1-082422-93 (A2H0777-10RE1)								
Total Cyanide	145	12.5	25.0	ug/L	5	08/29/22 14:45	D7511-12	
				Matrix: Water		Batch: 22H0991		
GACF1-082422-93 (A2H0777-11RE1)								
Total Cyanide	136	12.5	25.0	ug/L	5	08/29/22 14:47	D7511-12	

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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: A2H0777 - 09 14 22 1127
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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
GACF1-082422-93 (A2H0777-11RE1)				Matrix: Water		Batch: 22H0959		
Available Cyanide	15.7	1.00	2.00	ug/L	1	08/26/22 14:00	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
GACF1-082422-93 (A2H0777-11)				Matrix: Water		Batch: 22H0899		
Free Cyanide	13.1	2.50	5.00	ug/L	1	08/25/22 11:36	D7237-10	

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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-082422-93 (A2H0777-09)				Matrix: Water		Batch: 22H0867		
CN_Sulfides	ND	0.500	0.500	N/A	1	08/24/22 14:30	D7365-09a	CN-03
CN_Oxidizers	DET	0.500	0.500	N/A	1	08/24/22 14:30	D7365-09a	CN-03
CN_Aldehydes	ND	0.500	0.500	N/A	1	08/24/22 14:30	D7365-09a	CN-03

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ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TPI-082422-93 (A2H0777-08)				Matrix: Water				
Batch: 22H0937								
Total Suspended Solids	362000	25000	25000	ug/L	1	08/26/22 10:30	SM 2540 D	
GACF1-082422-93 (A2H0777-11)				Matrix: Water				
Batch: 22H0937								
Total Suspended Solids	ND	5000	5000	ug/L	1	08/26/22 10:30	SM 2540 D	SL-1

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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 22H0837 - EPA 5030C						Water						
Blank (22H0837-BLK1)			Prepared: 08/25/22 11:00 Analyzed: 08/25/22 14:48									
<u>EPA 8260D</u>												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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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	A2H0777 - 09 14 22 1127

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 22H0837 - EPA 5030C						Water						
Blank (22H0837-BLK1)			Prepared: 08/25/22 11:00 Analyzed: 08/25/22 14:48									
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	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	5.00	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 109 % Limits: 80-120 % Dilution: 1x

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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: A2H0777 - 09 14 22 1127
---	---	---

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 22H0837 - EPA 5030C						Water						
Blank (22H0837-BLK1)						Prepared: 08/25/22 11:00 Analyzed: 08/25/22 14:48						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 104 %</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 (22H0837-BS1)						Prepared: 08/25/22 11:00 Analyzed: 08/25/22 13:46						
EPA 8260D												
Acetone	56.0	10.0	20.0	ug/L	1	40.0	---	140	80-120%	---	---	Q-56
Acrylonitrile	20.4	1.00	2.00	ug/L	1	20.0	---	102	80-120%	---	---	
Benzene	21.6	0.100	0.200	ug/L	1	20.0	---	108	80-120%	---	---	
Bromobenzene	18.0	0.250	0.500	ug/L	1	20.0	---	90	80-120%	---	---	
Bromochloromethane	21.5	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Bromodichloromethane	22.5	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Bromoform	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Bromomethane	32.8	5.00	5.00	ug/L	1	20.0	---	164	80-120%	---	---	Q-56
2-Butanone (MEK)	52.9	5.00	10.0	ug/L	1	40.0	---	132	80-120%	---	---	Q-56
n-Butylbenzene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
sec-Butylbenzene	19.9	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
tert-Butylbenzene	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Carbon disulfide	22.3	5.00	10.0	ug/L	1	20.0	---	111	80-120%	---	---	
Carbon tetrachloride	24.5	0.500	1.00	ug/L	1	20.0	---	123	80-120%	---	---	Q-56
Chlorobenzene	18.9	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Chloroethane	20.8	5.00	5.00	ug/L	1	20.0	---	104	80-120%	---	---	
Chloroform	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Chloromethane	17.7	2.50	5.00	ug/L	1	20.0	---	88	80-120%	---	---	
2-Chlorotoluene	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
4-Chlorotoluene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Dibromochloromethane	24.4	0.500	1.00	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
1,2-Dibromo-3-chloropropane	22.0	2.50	5.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2-Dibromoethane (EDB)	22.7	0.250	0.500	ug/L	1	20.0	---	114	80-120%	---	---	
Dibromomethane	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,2-Dichlorobenzene	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,3-Dichlorobenzene	19.9	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,4-Dichlorobenzene	18.2	0.250	0.500	ug/L	1	20.0	---	91	80-120%	---	---	
Dichlorodifluoromethane	17.6	0.500	1.00	ug/L	1	20.0	---	88	80-120%	---	---	
1,1-Dichloroethane	20.9	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	

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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 22H0837 - EPA 5030C						Water						
LCS (22H0837-BS1)			Prepared: 08/25/22 11:00 Analyzed: 08/25/22 13:46									
1,2-Dichloroethane (EDC)	20.5	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
1,1-Dichloroethene	19.9	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
cis-1,2-Dichloroethene	21.1	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
trans-1,2-Dichloroethene	20.0	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,2-Dichloropropane	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,3-Dichloropropane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
2,2-Dichloropropane	28.2	0.500	1.00	ug/L	1	20.0	---	141	80-120%	---	---	Q-56
1,1-Dichloropropene	23.7	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
cis-1,3-Dichloropropene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
trans-1,3-Dichloropropene	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Ethylbenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Hexachlorobutadiene	21.5	2.50	5.00	ug/L	1	20.0	---	108	80-120%	---	---	
2-Hexanone	41.7	5.00	10.0	ug/L	1	40.0	---	104	80-120%	---	---	
Isopropylbenzene	18.5	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
4-Isopropyltoluene	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Methylene chloride	20.6	5.00	10.0	ug/L	1	20.0	---	103	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	43.7	5.00	10.0	ug/L	1	40.0	---	109	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	23.6	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
Naphthalene	15.1	5.00	5.00	ug/L	1	20.0	---	76	80-120%	---	---	Q-55
n-Propylbenzene	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Styrene	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,1,2-Tetrachloroethane	21.0	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
1,1,2,2-Tetrachloroethane	19.7	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Tetrachloroethene (PCE)	19.9	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
Toluene	19.1	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,3-Trichlorobenzene	18.1	1.00	2.00	ug/L	1	20.0	---	91	80-120%	---	---	
1,2,4-Trichlorobenzene	16.7	1.00	2.00	ug/L	1	20.0	---	84	80-120%	---	---	
1,1,1-Trichloroethane	21.8	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
1,1,2-Trichloroethane	19.7	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Trichloroethene (TCE)	19.0	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
Trichlorofluoromethane	22.1	1.00	2.00	ug/L	1	20.0	---	111	80-120%	---	---	
1,2,3-Trichloropropane	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2,4-Trimethylbenzene	20.1	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,3,5-Trimethylbenzene	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	

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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: A2H0777 - 09 14 22 1127
---	---	---

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 22H0837 - EPA 5030C						Water						
LCS (22H0837-BS1)			Prepared: 08/25/22 11:00 Analyzed: 08/25/22 13:46									
Vinyl chloride	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
m,p-Xylene	40.7	0.500	1.00	ug/L	1	40.0	---	102	80-120%	---	---	
o-Xylene	18.3	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</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>93 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22H0837-DUP1)						Prepared: 08/25/22 14:50 Analyzed: 08/25/22 17:30						
QC Source Sample: Non-SDG (A2H0733-01)												
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	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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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: A2H0777 - 09 14 22 1127
---	---	---

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 22H0837 - EPA 5030C						Water						
Duplicate (22H0837-DUP1)			Prepared: 08/25/22 14:50 Analyzed: 08/25/22 17:30									
QC Source Sample: Non-SDG (A2H0733-01)												
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	5.00	5.00	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	0.250	0.500	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: A2H0777 - 09 14 22 1127
---	---	---

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 22H0837 - EPA 5030C						Water						
Duplicate (22H0837-DUP1)			Prepared: 08/25/22 14:50 Analyzed: 08/25/22 17:30									
QC Source Sample: Non-SDG (A2H0733-01)												
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: 113 %</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>100 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (22H0837-MS1)						Prepared: 08/25/22 14:50 Analyzed: 08/25/22 20:12						
QC Source Sample: GACF1-082422-93 (A2H0777-11)												
EPA 8260D												
Acetone	42.5	10.0	20.0	ug/L	1	40.0	ND	106	39-160%	---	---	Q-54b
Acrylonitrile	20.6	1.00	2.00	ug/L	1	20.0	ND	103	63-135%	---	---	
Benzene	23.1	0.100	0.200	ug/L	1	20.0	0.140	115	79-120%	---	---	
Bromobenzene	18.5	0.250	0.500	ug/L	1	20.0	ND	93	80-120%	---	---	
Bromochloromethane	22.2	0.500	1.00	ug/L	1	20.0	ND	111	78-123%	---	---	
Bromodichloromethane	46.8	0.500	1.00	ug/L	1	20.0	24.3	113	79-125%	---	---	
Bromoform	21.2	0.500	1.00	ug/L	1	20.0	ND	106	66-130%	---	---	
Bromomethane	29.7	5.00	5.00	ug/L	1	20.0	ND	148	53-141%	---	---	Q-54e
2-Butanone (MEK)	47.1	5.00	10.0	ug/L	1	40.0	ND	118	56-143%	---	---	Q-54
n-Butylbenzene	21.2	0.500	1.00	ug/L	1	20.0	ND	106	75-128%	---	---	
sec-Butylbenzene	21.1	0.500	1.00	ug/L	1	20.0	ND	106	77-126%	---	---	
tert-Butylbenzene	20.4	0.500	1.00	ug/L	1	20.0	ND	102	78-124%	---	---	
Carbon disulfide	24.2	5.00	10.0	ug/L	1	20.0	ND	121	64-133%	---	---	
Carbon tetrachloride	27.8	0.500	1.00	ug/L	1	20.0	ND	139	72-136%	---	---	Q-54d
Chlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	
Chloroethane	21.3	5.00	5.00	ug/L	1	20.0	ND	107	60-138%	---	---	
Chloroform	154	0.500	1.00	ug/L	1	20.0	152	8	79-124%	---	---	Q-03
Chloromethane	19.9	2.50	5.00	ug/L	1	20.0	ND	99	50-139%	---	---	

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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: A2H0777 - 09 14 22 1127
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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 22H0837 - EPA 5030C						Water						
Matrix Spike (22H0837-MS1)			Prepared: 08/25/22 14:50 Analyzed: 08/25/22 20:12									
QC Source Sample: GACF1-082422-93 (A2H0777-11)												
2-Chlorotoluene	20.9	0.500	1.00	ug/L	1	20.0	ND	105	79-122%	---	---	
4-Chlorotoluene	22.4	0.500	1.00	ug/L	1	20.0	ND	112	78-122%	---	---	
Dibromochloromethane	29.3	0.500	1.00	ug/L	1	20.0	3.58	129	74-126%	---	---	Q-54a
1,2-Dibromo-3-chloropropane	23.2	2.50	5.00	ug/L	1	20.0	ND	116	62-128%	---	---	
1,2-Dibromoethane (EDB)	23.6	0.250	0.500	ug/L	1	20.0	ND	118	77-121%	---	---	
Dibromomethane	22.8	0.500	1.00	ug/L	1	20.0	ND	114	79-123%	---	---	
1,2-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
1,3-Dichlorobenzene	20.7	0.250	0.500	ug/L	1	20.0	ND	104	80-120%	---	---	
1,4-Dichlorobenzene	19.0	0.250	0.500	ug/L	1	20.0	ND	95	79-120%	---	---	
Dichlorodifluoromethane	19.8	0.500	1.00	ug/L	1	20.0	ND	99	32-152%	---	---	
1,1-Dichloroethane	22.0	0.200	0.400	ug/L	1	20.0	ND	110	77-125%	---	---	
1,2-Dichloroethane (EDC)	21.4	0.200	0.400	ug/L	1	20.0	ND	107	73-128%	---	---	
1,1-Dichloroethene	22.0	0.200	0.400	ug/L	1	20.0	ND	110	71-131%	---	---	
cis-1,2-Dichloroethene	21.7	0.200	0.400	ug/L	1	20.0	ND	108	78-123%	---	---	
trans-1,2-Dichloroethene	21.0	0.200	0.400	ug/L	1	20.0	ND	105	75-124%	---	---	
1,2-Dichloropropane	20.9	0.250	0.500	ug/L	1	20.0	ND	105	78-122%	---	---	
1,3-Dichloropropane	20.9	0.500	1.00	ug/L	1	20.0	ND	104	80-120%	---	---	
2,2-Dichloropropane	29.4	0.500	1.00	ug/L	1	20.0	ND	147	60-139%	---	---	Q-54c
1,1-Dichloropropene	25.8	0.500	1.00	ug/L	1	20.0	ND	129	79-125%	---	---	Q-01
cis-1,3-Dichloropropene	17.3	0.500	1.00	ug/L	1	20.0	ND	87	75-124%	---	---	
trans-1,3-Dichloropropene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	73-127%	---	---	
Ethylbenzene	21.9	0.250	0.500	ug/L	1	20.0	ND	110	79-121%	---	---	
Hexachlorobutadiene	23.8	2.50	5.00	ug/L	1	20.0	ND	119	66-134%	---	---	
2-Hexanone	40.9	5.00	10.0	ug/L	1	40.0	ND	102	57-139%	---	---	
Isopropylbenzene	19.0	0.500	1.00	ug/L	1	20.0	ND	95	72-131%	---	---	
4-Isopropyltoluene	20.2	0.500	1.00	ug/L	1	20.0	ND	101	77-127%	---	---	
Methylene chloride	20.8	5.00	10.0	ug/L	1	20.0	ND	104	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	43.6	5.00	10.0	ug/L	1	40.0	ND	109	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	25.3	0.500	1.00	ug/L	1	20.0	0.780	123	71-124%	---	---	
Naphthalene	17.0	5.00	5.00	ug/L	1	20.0	ND	85	61-128%	---	---	Q-54f
n-Propylbenzene	22.4	0.250	0.500	ug/L	1	20.0	ND	112	76-126%	---	---	
Styrene	ND	0.500	1.00	ug/L	1	20.0	ND		78-123%	---	---	Q-02
1,1,1,2-Tetrachloroethane	22.3	0.200	0.400	ug/L	1	20.0	ND	112	78-124%	---	---	

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ANALYTICAL REPORT

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2H0777 - 09 14 22 1127
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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 22H0837 - EPA 5030C						Water						
Matrix Spike (22H0837-MS1)			Prepared: 08/25/22 14:50 Analyzed: 08/25/22 20:12									
QC Source Sample: GACF1-082422-93 (A2H0777-11)												
1,1,2,2-Tetrachloroethane	19.7	0.250	0.500	ug/L	1	20.0	ND	99	71-121%	---	---	
Tetrachloroethene (PCE)	21.4	0.200	0.400	ug/L	1	20.0	ND	107	74-129%	---	---	
Toluene	20.0	0.250	0.500	ug/L	1	20.0	ND	100	80-121%	---	---	
1,2,3-Trichlorobenzene	20.0	1.00	2.00	ug/L	1	20.0	ND	100	69-129%	---	---	
1,2,4-Trichlorobenzene	18.3	1.00	2.00	ug/L	1	20.0	ND	91	69-130%	---	---	
1,1,1-Trichloroethane	24.3	0.200	0.400	ug/L	1	20.0	ND	121	74-131%	---	---	
1,1,2-Trichloroethane	20.0	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	
Trichloroethene (TCE)	20.3	0.200	0.400	ug/L	1	20.0	ND	102	79-123%	---	---	
Trichlorofluoromethane	24.7	1.00	2.00	ug/L	1	20.0	ND	123	65-141%	---	---	
1,2,3-Trichloropropane	20.6	0.500	1.00	ug/L	1	20.0	ND	103	73-122%	---	---	
1,2,4-Trimethylbenzene	20.6	0.500	1.00	ug/L	1	20.0	ND	103	76-124%	---	---	
1,3,5-Trimethylbenzene	16.1	0.500	1.00	ug/L	1	20.0	ND	80	75-124%	---	---	
Vinyl chloride	20.7	0.200	0.400	ug/L	1	20.0	ND	104	58-137%	---	---	
m,p-Xylene	42.9	0.500	1.00	ug/L	1	40.0	ND	107	80-121%	---	---	
o-Xylene	19.1	0.250	0.500	ug/L	1	20.0	ND	95	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>92 %</i>		<i>80-120 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0952 - EPA 5030C						Water						
Blank (22H0952-BLK1)			Prepared: 08/26/22 10:00 Analyzed: 08/26/22 13:11									
<u>EPA 8260D</u>												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
<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>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
LCS (22H0952-BS1)			Prepared: 08/26/22 10:00 Analyzed: 08/26/22 12:26									
<u>EPA 8260D</u>												
Benzene	22.4	0.100	0.200	ug/L	1	20.0	---	112	80-120%	---	---	
Naphthalene	17.0	1.00	2.00	ug/L	1	20.0	---	85	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						
Duplicate (22H0952-DUP1)			Prepared: 08/26/22 12:48 Analyzed: 08/26/22 18:22									
<u>QC Source Sample: Non-SDG (A2H0852-05)</u>												
Benzene	10800	10.0	20.0	ug/L	100	---	10800	---	---	0.2	30%	
Naphthalene	377	100	200	ug/L	100	---	388	---	---	3	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
Matrix Spike (22H0952-MS1)			Prepared: 08/26/22 12:48 Analyzed: 08/26/22 19:50									
<u>QC Source Sample: Non-SDG (A2H0857-02)</u>												
<u>EPA 8260D</u>												
Benzene	23.1	0.100	0.200	ug/L	1	20.0	ND	116	79-120%	---	---	
Naphthalene	16.1	1.00	2.00	ug/L	1	20.0	ND	80	61-128%	---	---	
<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>94 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>92 %</i>		<i>80-120 %</i>		<i>"</i>						

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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: A2H0777 - 09 14 22 1127
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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 22H0975 - EPA 3510C (Acid Extraction)						Water						
Blank (22H0975-BLK1)			Prepared: 08/29/22 07:10 Analyzed: 08/29/22 15:14									
<u>EPA 8270E SIM</u>												
Acenaphthene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0364	0.0727	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0364	0.0727	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0364	0.0727	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0182	0.0364	ug/L	1	---	---	---	---	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>103 %</i>		<i>50-134 %</i>		<i>"</i>						

LCS (22H0975-BS1)			Prepared: 08/29/22 07:10 Analyzed: 08/29/22 15:40									
<u>EPA 8270E SIM</u>												
Acenaphthene	7.65	0.0200	0.0400	ug/L	1	8.00	---	96	47-122%	---	---	
Acenaphthylene	7.54	0.0200	0.0400	ug/L	1	8.00	---	94	41-130%	---	---	
Anthracene	7.86	0.0200	0.0400	ug/L	1	8.00	---	98	57-123%	---	---	
Benz(a)anthracene	7.67	0.0200	0.0400	ug/L	1	8.00	---	96	58-125%	---	---	
Benzo(a)pyrene	8.19	0.0200	0.0400	ug/L	1	8.00	---	102	54-128%	---	---	
Benzo(b)fluoranthene	8.21	0.0200	0.0400	ug/L	1	8.00	---	103	53-131%	---	---	
Benzo(k)fluoranthene	7.87	0.0200	0.0400	ug/L	1	8.00	---	98	57-129%	---	---	
Benzo(g,h,i)perylene	7.32	0.0200	0.0400	ug/L	1	8.00	---	91	50-134%	---	---	
Chrysene	8.16	0.0200	0.0400	ug/L	1	8.00	---	102	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 22H0975 - EPA 3510C (Acid Extraction)						Water						
LCS (22H0975-BS1)			Prepared: 08/29/22 07:10 Analyzed: 08/29/22 15:40									
Dibenz(a,h)anthracene	8.66	0.0200	0.0400	ug/L	1	8.00	---	108	51-134%	---	---	
Fluoranthene	7.83	0.0200	0.0400	ug/L	1	8.00	---	98	57-128%	---	---	
Fluorene	7.65	0.0200	0.0400	ug/L	1	8.00	---	96	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	8.04	0.0200	0.0400	ug/L	1	8.00	---	100	52-134%	---	---	
1-Methylnaphthalene	7.34	0.0400	0.0800	ug/L	1	8.00	---	92	41-120%	---	---	
2-Methylnaphthalene	7.16	0.0400	0.0800	ug/L	1	8.00	---	89	40-121%	---	---	
Naphthalene	7.05	0.0400	0.0800	ug/L	1	8.00	---	88	40-121%	---	---	
Phenanthrene	7.56	0.0200	0.0400	ug/L	1	8.00	---	95	59-120%	---	---	
Pyrene	7.77	0.0200	0.0400	ug/L	1	8.00	---	97	57-126%	---	---	
Dibenzofuran	7.58	0.0200	0.0400	ug/L	1	8.00	---	95	53-120%	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>89 %</i>		<i>50-134 %</i>		"						

LCS Dup (22H0975-BSD1)						Prepared: 08/29/22 07:10 Analyzed: 08/29/22 16:05						Q-19
EPA 8270E SIM												
Acenaphthene	7.78	0.0200	0.0400	ug/L	1	8.00	---	97	47-122%	2	30%	
Acenaphthylene	7.80	0.0200	0.0400	ug/L	1	8.00	---	97	41-130%	3	30%	
Anthracene	8.03	0.0200	0.0400	ug/L	1	8.00	---	100	57-123%	2	30%	
Benz(a)anthracene	7.88	0.0200	0.0400	ug/L	1	8.00	---	98	58-125%	3	30%	
Benzo(a)pyrene	8.48	0.0200	0.0400	ug/L	1	8.00	---	106	54-128%	3	30%	
Benzo(b)fluoranthene	8.45	0.0200	0.0400	ug/L	1	8.00	---	106	53-131%	3	30%	
Benzo(k)fluoranthene	8.41	0.0200	0.0400	ug/L	1	8.00	---	105	57-129%	7	30%	
Benzo(g,h,i)perylene	7.49	0.0200	0.0400	ug/L	1	8.00	---	94	50-134%	2	30%	
Chrysene	8.41	0.0200	0.0400	ug/L	1	8.00	---	105	59-123%	3	30%	
Dibenz(a,h)anthracene	9.01	0.0200	0.0400	ug/L	1	8.00	---	113	51-134%	4	30%	
Fluoranthene	8.23	0.0200	0.0400	ug/L	1	8.00	---	103	57-128%	5	30%	
Fluorene	7.97	0.0200	0.0400	ug/L	1	8.00	---	100	52-124%	4	30%	
Indeno(1,2,3-cd)pyrene	8.44	0.0200	0.0400	ug/L	1	8.00	---	105	52-134%	5	30%	
1-Methylnaphthalene	7.42	0.0400	0.0800	ug/L	1	8.00	---	93	41-120%	1	30%	
2-Methylnaphthalene	7.18	0.0400	0.0800	ug/L	1	8.00	---	90	40-121%	0.3	30%	
Naphthalene	7.06	0.0400	0.0800	ug/L	1	8.00	---	88	40-121%	0.09	30%	
Phenanthrene	7.71	0.0200	0.0400	ug/L	1	8.00	---	96	59-120%	2	30%	
Pyrene	8.23	0.0200	0.0400	ug/L	1	8.00	---	103	57-126%	6	30%	
Dibenzofuran	7.88	0.0200	0.0400	ug/L	1	8.00	---	98	53-120%	4	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 22H0975 - EPA 3510C (Acid Extraction)						Water						
LCS Dup (22H0975-BSD1)						Prepared: 08/29/22 07:10 Analyzed: 08/29/22 16:05						Q-19
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>98 %</i>		<i>50-134 %</i>		<i>"</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 22H0872 - 1631E Mercury (H2O)						Water						
Blank (22H0872-BLK1)						Prepared: 08/24/22 15:15 Analyzed: 08/25/22 17:01						
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22H0872-BLK2)						Prepared: 08/24/22 15:15 Analyzed: 08/25/22 17:06						
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
Blank (22H0872-BLK3)						Prepared: 08/24/22 15:15 Analyzed: 08/25/22 17:11						
<u>EPA 1631E-LL</u>												
Mercury	ND	0.000500	0.00100	ug/L	1	---	---	---	---	---	---	
LCS (22H0872-BS1)						Prepared: 08/24/22 15:15 Analyzed: 08/25/22 17:16						
<u>EPA 1631E-LL</u>												
Mercury	0.00721	0.000500	0.00100	ug/L	1	0.00800	---	90	80-120%	---	---	
Matrix Spike (22H0872-MS1)						Prepared: 08/24/22 15:15 Analyzed: 08/25/22 17:26						
<u>QC Source Sample: Non-SDG (A2H0687-01)</u>												
<u>EPA 1631E-LL</u>												
Mercury	0.00828	0.000500	0.00100	ug/L	1	0.00800	0.000995	91	75-125%	---	---	
Matrix Spike Dup (22H0872-MSD1)						Prepared: 08/24/22 15:15 Analyzed: 08/25/22 17:31						
<u>QC Source Sample: Non-SDG (A2H0687-01)</u>												
Mercury	0.00871	0.000500	0.00100	ug/L	1	0.00800	0.000995	96	75-125%	5	24%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0988 - EPA 3015A						Water						
Blank (22H0988-BLK1)			Prepared: 08/29/22 09:53 Analyzed: 08/30/22 21:57									
<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 (22H0988-BS1)			Prepared: 08/29/22 09:53 Analyzed: 08/30/22 22:02									
<u>EPA 6020B</u>												
Arsenic	52.3	0.500	1.00	ug/L	1	55.6	---	94	80-120%	---	---	
Barium	55.1	1.00	2.00	ug/L	1	55.6	---	99	80-120%	---	---	
Cadmium	54.0	0.100	0.200	ug/L	1	55.6	---	97	80-120%	---	---	
Chromium	54.5	1.00	2.00	ug/L	1	55.6	---	98	80-120%	---	---	
Copper	55.7	1.00	2.00	ug/L	1	55.6	---	100	80-120%	---	---	
Iron	2840	25.0	50.0	ug/L	1	2780	---	102	80-120%	---	---	
Lead	55.8	0.110	0.200	ug/L	1	55.6	---	101	80-120%	---	---	
Mercury	1.11	0.0400	0.0800	ug/L	1	1.11	---	100	80-120%	---	---	
Selenium	27.2	0.500	1.00	ug/L	1	27.8	---	98	80-120%	---	---	
Silver	27.7	0.100	0.200	ug/L	1	27.8	---	100	80-120%	---	---	
Duplicate (22H0988-DUP1)			Prepared: 08/29/22 09:53 Analyzed: 08/30/22 22:12									
<u>QC Source Sample: Non-SDG (A2H0692-01)</u>												
Arsenic	1.87	0.500	1.00	ug/L	1	---	1.87	---	---	0.02	20%	
Barium	134	1.00	2.00	ug/L	1	---	128	---	---	4	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Copper	1.40	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Iron	1660	25.0	50.0	ug/L	1	---	1580	---	---	5	20%	
Lead	0.674	0.110	0.200	ug/L	1	---	0.621	---	---	8	20%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0988 - EPA 3015A						Water						
Duplicate (22H0988-DUP1)			Prepared: 08/29/22 09:53 Analyzed: 08/30/22 22:12									
QC Source Sample: Non-SDG (A2H0692-01)												
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Selenium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Matrix Spike (22H0988-MS1)						Prepared: 08/29/22 09:53 Analyzed: 08/30/22 22:16						
QC Source Sample: Non-SDG (A2H0692-01)												
EPA 6020B												
Arsenic	55.0	0.500	1.00	ug/L	1	55.6	1.87	96	75-125%	---	---	
Barium	184	1.00	2.00	ug/L	1	55.6	128	100	75-125%	---	---	
Cadmium	56.4	0.100	0.200	ug/L	1	55.6	ND	102	75-125%	---	---	
Chromium	53.9	1.00	2.00	ug/L	1	55.6	ND	97	75-125%	---	---	
Copper	53.8	1.00	2.00	ug/L	1	55.6	ND	97	75-125%	---	---	
Iron	4410	25.0	50.0	ug/L	1	2780	1580	102	75-125%	---	---	
Lead	55.5	0.110	0.200	ug/L	1	55.6	0.621	99	75-125%	---	---	
Mercury	1.12	0.0400	0.0800	ug/L	1	1.11	ND	100	75-125%	---	---	
Selenium	28.0	0.500	1.00	ug/L	1	27.8	ND	101	75-125%	---	---	
Silver	28.2	0.100	0.200	ug/L	1	27.8	ND	102	75-125%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0980 - EPA 1664B						Water						
Blank (22H0980-BLK1)			Prepared: 08/29/22 08:18 Analyzed: 08/31/22 12:52									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	ND	4550	4550	ug/L	1	---	---	---	---	---	---	
LCS (22H0980-BS1)			Prepared: 08/29/22 08:18 Analyzed: 08/31/22 12:52									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	36.6			mg/L	1	40.0	---	92	78-114%	---	---	
Matrix Spike (22H0980-MS1)			Prepared: 08/29/22 08:18 Analyzed: 08/31/22 12:52									
<u>QC Source Sample: Non-SDG (A2H0602-01)</u>												
<u>EPA 1664B</u>												
HEM (Oil and Grease)	30.3			mg/L	1	40.0	ND	73	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 22I0139 - EPA 1664B						Water						
Blank (22I0139-BLK1)			Prepared: 09/07/22 08:50 Analyzed: 09/09/22 14:46									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	ND	3330	3330	ug/L	1	---	---	---	---	---	---	
LCS (22I0139-BS1)			Prepared: 09/07/22 08:50 Analyzed: 09/09/22 14:46									
<u>EPA 1664B</u>												
HEM (Oil and Grease)	37.2			mg/L	1	40.0	---	93	78-114%	---	---	
Matrix Spike (22I0139-MS1)			Prepared: 09/07/22 08:50 Analyzed: 09/09/22 14:46									
<u>QC Source Sample: Non-SDG (A2H0853-01)</u>												
<u>EPA 1664B</u>												
HEM (Oil and Grease)	33.3			mg/L	1	38.8	ND	82	78-114%	---	---	

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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 22H0991 - ASTM D7511-12 (W)						Water						
Blank (22H0991-BLK1)			Prepared: 08/29/22 10:22 Analyzed: 08/29/22 12:50									
<u>D7511-12</u>												
Total Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
LCS (22H0991-BS1)			Prepared: 08/29/22 10:22 Analyzed: 08/29/22 12:52									
<u>D7511-12</u>												
Total Cyanide	27.7	2.50	5.00	ug/L	1	25.0	---	111	84-116%	---	---	
Matrix Spike (22H0991-MS1)			Prepared: 08/29/22 10:22 Analyzed: 08/29/22 13:02									
<u>QC Source Sample: SE-082422-93 (A2H0777-02)</u>												
<u>D7511-12</u>												
Total Cyanide	307	12.5	25.0	ug/L	5	125	193	91	64-136%	---	---	E
Matrix Spike (22H0991-MS3)			Prepared: 08/29/22 10:22 Analyzed: 08/29/22 15:11									
<u>QC Source Sample: Non-SDG (A2H0831-02RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	10400	625	1250	ug/L	250	6250	3930	103	64-136%	---	---	Q-16
Matrix Spike Dup (22H0991-MSD1)			Prepared: 08/29/22 10:22 Analyzed: 08/29/22 13:04									
<u>QC Source Sample: SE-082422-93 (A2H0777-02)</u>												
<u>D7511-12</u>												
Total Cyanide	315	12.5	25.0	ug/L	5	125	193	97	64-136%	2	47%	E
Matrix Spike Dup (22H0991-MSD3)			Prepared: 08/29/22 10:22 Analyzed: 08/29/22 15:13									
<u>QC Source Sample: Non-SDG (A2H0831-02RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	10500	625	1250	ug/L	250	6250	3930	105	64-136%	2	47%	Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0959 - Method Prep: Aq						Water						
Blank (22H0959-BLK1)			Prepared: 08/26/22 13:27 Analyzed: 08/26/22 13:55									
<u>D6888-09</u>												
Available Cyanide	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
LCS (22H0959-BS1)			Prepared: 08/26/22 13:27 Analyzed: 08/26/22 13:57									
<u>D6888-09</u>												
Available Cyanide	27.5	1.00	2.00	ug/L	1	25.0	---	110	90-117%	---	---	
Matrix Spike (22H0959-MS1)			Prepared: 08/26/22 13:27 Analyzed: 08/26/22 14:03									
<u>QC Source Sample: Non-SDG (A2H0779-08RE2)</u>												
<u>D6888-09</u>												
Available Cyanide	43.9	1.01	2.01	ug/L	1	25.1	17.2	106	82-130%	---	---	
Matrix Spike Dup (22H0959-MSD1)			Prepared: 08/26/22 13:27 Analyzed: 08/26/22 14:04									
<u>QC Source Sample: Non-SDG (A2H0779-08RE2)</u>												
Available Cyanide	44.6	1.01	2.01	ug/L	1	25.1	17.2	109	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 22H0899 - Method Prep: Aq						Water						
Blank (22H0899-BLK1)			Prepared: 08/25/22 10:06 Analyzed: 08/25/22 11:32									
<u>D7237-10</u>												
Free Cyanide	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
LCS (22H0899-BS1)			Prepared: 08/25/22 10:06 Analyzed: 08/25/22 11:33									
<u>D7237-10</u>												
Free Cyanide	26.8	2.50	5.00	ug/L	1	25.0	---	107	90-118%	---	---	
Matrix Spike (22H0899-MS1)			Prepared: 08/25/22 10:06 Analyzed: 08/25/22 11:38									
<u>QC Source Sample: GACF1-082422-93 (A2H0777-11)</u>												
<u>D7237-10</u>												
Free Cyanide	38.8	2.51	5.03	ug/L	1	25.1	13.1	102	79-121%	---	---	
Matrix Spike Dup (22H0899-MSD1)			Prepared: 08/25/22 10:06 Analyzed: 08/25/22 11:39									
<u>QC Source Sample: GACF1-082422-93 (A2H0777-11)</u>												
<u>D7237-10</u>												
Free Cyanide	39.5	2.51	5.03	ug/L	1	25.1	13.1	105	79-121%	2	13%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Solid and Moisture Determinations

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22H0937 - Total Suspended Solids						Water						
Blank (22H0937-BLK1)						Prepared: 08/26/22 10:30 Analyzed: 08/26/22 10:30						
<u>SM 2540 D</u>												
Total Suspended Solids	ND	5000	5000	ug/L	1	---	---	---	---	---	---	
Duplicate (22H0937-DUP1)						Prepared: 08/26/22 10:30 Analyzed: 08/26/22 10:30						
<u>QC Source Sample: Non-SDG (A2H0721-01)</u>												
Total Suspended Solids	410000	125000	125000	ug/L	1	---	475000	---	---	14.7	10%	Q-04
Duplicate (22H0937-DUP2)						Prepared: 08/26/22 10:30 Analyzed: 08/26/22 10:30						
<u>QC Source Sample: Non-SDG (A2H0734-01)</u>												
Total Suspended Solids	226000	50000	50000	ug/L	1	---	216000	---	---	4.52	10%	
Reference (22H0937-SRM1)						Prepared: 08/26/22 10:30 Analyzed: 08/26/22 10:30						
<u>SM 2540 D</u>												
Total Suspended Solids	1030			mg/L	1	945	109	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: 22H0837</u>							
A2H0777-01	Water	EPA 8260D	08/24/22 00:00	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-02	Water	EPA 8260D	08/24/22 00:15	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-03	Water	EPA 8260D	08/24/22 00:35	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-04	Water	EPA 8260D	08/24/22 00:50	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-05	Water	EPA 8260D	08/24/22 01:00	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-06	Water	EPA 8260D	08/24/22 01:15	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-07	Water	EPA 8260D	08/24/22 01:30	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-08	Water	EPA 8260D	08/24/22 00:45	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-09	Water	EPA 8260D	08/24/22 00:15	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-10	Water	EPA 8260D	08/24/22 01:30	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
A2H0777-11	Water	EPA 8260D	08/24/22 01:45	08/25/22 14:50	5mL/5mL	5mL/5mL	1.00
<u>Batch: 22H0952</u>							
A2H0777-03RE1	Water	EPA 8260D	08/24/22 00:35	08/26/22 12:48	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: 22H0975</u>							
A2H0777-01	Water	EPA 8270E SIM	08/24/22 00:00	08/29/22 07:10	1000mL/2mL	1000mL/2mL	1.00
A2H0777-02	Water	EPA 8270E SIM	08/24/22 00:15	08/29/22 07:10	980mL/2mL	1000mL/2mL	1.02
A2H0777-03	Water	EPA 8270E SIM	08/24/22 00:35	08/29/22 07:10	970mL/2mL	1000mL/2mL	1.03
A2H0777-04	Water	EPA 8270E SIM	08/24/22 00:50	08/29/22 07:10	970mL/2mL	1000mL/2mL	1.03
A2H0777-05	Water	EPA 8270E SIM	08/24/22 01:00	08/29/22 07:10	1000mL/2mL	1000mL/2mL	1.00
A2H0777-06	Water	EPA 8270E SIM	08/24/22 01:15	08/29/22 07:10	770mL/2mL	1000mL/2mL	1.30
A2H0777-07	Water	EPA 8270E SIM	08/24/22 01:30	08/29/22 07:10	960mL/2mL	1000mL/2mL	1.04
A2H0777-08	Water	EPA 8270E SIM	08/24/22 00:45	08/29/22 07:10	970mL/2mL	1000mL/2mL	1.03
A2H0777-09	Water	EPA 8270E SIM	08/24/22 00:15	08/29/22 07:10	1040mL/2mL	1000mL/2mL	0.96
A2H0777-10	Water	EPA 8270E SIM	08/24/22 01:30	08/29/22 07:10	1060mL/2mL	1000mL/2mL	0.94
A2H0777-11	Water	EPA 8270E SIM	08/24/22 01:45	08/29/22 07:10	1050mL/2mL	1000mL/2mL	0.95

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

Prep: 1631E Mercury (H2O)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22H0872</u>							

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SAMPLE PREPARATION INFORMATION

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

Prep: 1631E Mercury (H2O)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A2H0777-01	Water	EPA 1631E-LL	08/24/22 00:00	08/24/22 15:15	20mL/20mL	20mL/20mL	1.00
A2H0777-03	Water	EPA 1631E-LL	08/24/22 00:35	08/24/22 15:15	20mL/20mL	20mL/20mL	1.00
A2H0777-05	Water	EPA 1631E-LL	08/24/22 01:00	08/24/22 15:15	20mL/20mL	20mL/20mL	1.00
A2H0777-06	Water	EPA 1631E-LL	08/24/22 01:15	08/24/22 15:15	20mL/20mL	20mL/20mL	1.00
A2H0777-08	Water	EPA 1631E-LL	08/24/22 00:45	08/24/22 15:15	20mL/20mL	20mL/20mL	1.00
A2H0777-09	Water	EPA 1631E-LL	08/24/22 00:15	08/24/22 15:15	20mL/20mL	20mL/20mL	1.00
A2H0777-10	Water	EPA 1631E-LL	08/24/22 01:30	08/24/22 15:15	20mL/20mL	20mL/20mL	1.00
A2H0777-11	Water	EPA 1631E-LL	08/24/22 01:45	08/24/22 15:15	20mL/20mL	20mL/20mL	1.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22H0988							
A2H0777-01	Water	EPA 6020B	08/24/22 00:00	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-01RE1	Water	EPA 6020B	08/24/22 00:00	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-02	Water	EPA 6020B	08/24/22 00:15	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-03	Water	EPA 6020B	08/24/22 00:35	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-04	Water	EPA 6020B	08/24/22 00:50	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-05	Water	EPA 6020B	08/24/22 01:00	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-05RE1	Water	EPA 6020B	08/24/22 01:00	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-06	Water	EPA 6020B	08/24/22 01:15	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-06RE1	Water	EPA 6020B	08/24/22 01:15	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-07	Water	EPA 6020B	08/24/22 01:30	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-08	Water	EPA 6020B	08/24/22 00:45	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-09	Water	EPA 6020B	08/24/22 00:15	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-10	Water	EPA 6020B	08/24/22 01:30	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00
A2H0777-11	Water	EPA 6020B	08/24/22 01:45	08/29/22 09:53	45mL/50mL	45mL/50mL	1.00

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

Prep: EPA 1664B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22H0980							
A2H0777-01	Water	EPA 1664B	08/24/22 00:00	08/29/22 08:18			NA
A2H0777-03	Water	EPA 1664B	08/24/22 00:35	08/29/22 08:18			NA
A2H0777-04	Water	EPA 1664B	08/24/22 00:50	08/29/22 08:18			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: A2H0777 - 09 14 22 1127
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SAMPLE PREPARATION INFORMATION

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

Prep: EPA 1664B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A2H0777-05	Water	EPA 1664B	08/24/22 01:00	08/29/22 08:18			NA
A2H0777-06	Water	EPA 1664B	08/24/22 01:15	08/29/22 08:18			NA
A2H0777-07	Water	EPA 1664B	08/24/22 01:30	08/29/22 08:18			NA
A2H0777-08	Water	EPA 1664B	08/24/22 00:45	08/29/22 08:18			NA
Batch: 22I0139							
A2H0777-02RE1	Water	EPA 1664B	08/24/22 00:15	09/07/22 08:50			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
Batch: 22H0991							
A2H0777-01	Water	D7511-12	08/24/22 00:00	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-02	Water	D7511-12	08/24/22 00:15	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-03	Water	D7511-12	08/24/22 00:35	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-04	Water	D7511-12	08/24/22 00:50	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-05	Water	D7511-12	08/24/22 01:00	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-06RE1	Water	D7511-12	08/24/22 01:15	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-07RE1	Water	D7511-12	08/24/22 01:30	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-08RE1	Water	D7511-12	08/24/22 00:45	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-09RE1	Water	D7511-12	08/24/22 00:15	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-10RE1	Water	D7511-12	08/24/22 01:30	08/29/22 10:22	10mL/10mL	10mL/10mL	1.00
A2H0777-11RE1	Water	D7511-12	08/24/22 01:45	08/29/22 10:22	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
Batch: 22H0959							
A2H0777-11RE1	Water	D6888-09	08/24/22 01:45	08/25/22 09:27	5mL/5mL	5mL/5mL	1.00

Free Cyanide Analysis Utilizing Gas Diffusion and Amperometric Detection

Prep: Method Prep: Aq

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22H0899							
A2H0777-11	Water	D7237-10	08/24/22 01:45	08/25/22 10:06	5mL/5mL	5mL/5mL	1.00

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Monthly (2022) Project Number: 000029-02-20-2 Project Manager: Chip Byrd	Report ID: A2H0777 - 09 14 22 1127
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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

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: 22H0867</u>							
A2H0777-09	Water	D7365-09a	08/24/22 00:15	08/24/22 14:30	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: 22H0937</u>							
A2H0777-08	Water	SM 2540 D	08/24/22 00:45	08/26/22 10:30			NA
A2H0777-11	Water	SM 2540 D	08/24/22 01:45	08/26/22 10:30			NA

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Niagara Falls, NY 14305

Project: **Gasco -- Monthly (2022)**
Project Number: **000029-02-20-2**
Project Manager: **Chip Byrd**

Report ID:
A2H0777 - 09 14 22 1127

QUALIFIER DEFINITIONS

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

Apex Laboratories

- CN-03** Mitigation of detected interferences performed in the laboratory prior to preservation, and within 24 hours of sampling.
- COMP** Sample is a composite of discrete samples. See prep information for details.
 - E** Estimated Value. The result is above the calibration range of the instrument.
 - 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-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +12%. 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 +2%. 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 +20%. 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 +21%. 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 +44%. 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 -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.

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- 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.
- RR-1** Not Reported - Overdiluted. Sample will be Rerun.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- 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. The reporting level has been adjusted accordingly to reflect the increased uncertainty of the result.

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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 (A2H0777 - 09 14 22 1127)

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

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Table with 3 columns: Client (Sevenson Environmental Services, Inc.), Project (Gasco -- Monthly (2022)), and Report ID (A2H0777 - 09 14 22 1127)

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

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APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, Inc Element WO#: A2 H0777

Project/Project #: Gasco - Monthly

Delivery Info:
 Date/time received: 8/24/22 @ 1008 By: ET
 Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 8/24/22 @ 1122 By: ET

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

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>4.8</u>	<u>3.1</u>	<u>4.5</u>	<u>5.2</u>	<u>3.9</u>		
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Ice type: (Gel/Real/Other)	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>		
Condition:	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>		

Cooler out of temp? (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: 8/24/22 @ 1215 By: MS

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No

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

Do VOA vials have visible headspace? Yes No NA

Comments: Seal in 3/3 vials on TWIB-93, 1/3 vials have seal in NWI-93

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

Comments: pH 9 on SI-93, NWI-93, TWIA-93, TWIB-93

Additional information:

Labeled by: [Signature] Witness: [Signature] Cooler Inspected by: [Signature]

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[Signature]

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