



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Friday, December 2, 2022

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

RE: A2J0599 - Gasco -- Filter Bags - 111323

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 A2J0599, which was received by the laboratory on 10/19/2022 at 10:19:00AM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	3.0 degC
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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

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



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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BF-101822-145	A2J0599-01	Solid	10/18/22 16:00	10/19/22 10:19

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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01)				Matrix: Solid		Batch: 22J0894		
Diesel	2120000	9890	19800	ug/kg	1	10/25/22 00:50	NWTPH-Dx	
Oil	1420000	19800	39600	ug/kg	1	10/25/22 00:50	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 60 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>10/25/22 00:50</i>	<i>NWTPH-Dx</i>

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01RE1)				Matrix: Solid		Batch: 22J0853		V-15
Gasoline Range Organics	201000	45500	91000	ug/kg dry	50	10/21/22 22:44	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 106 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>10/21/22 22:44</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>98 %</i>		<i>50-150 %</i>		<i>1</i>	<i>10/21/22 22:44</i>	<i>NWTPH-Gx (MS)</i>

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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
BF-101822-145 (A2J0599-01RE1)				Matrix: Solid		Batch: 22J0853		V-15
Acetone	ND	9100	18200	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Acrylonitrile	ND	910	1820	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Benzene	ND	91.0	182	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Bromobenzene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Bromochloromethane	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Bromodichloromethane	12000	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Bromoform	1270	910	1820	ug/kg dry	50	10/21/22 22:44	5035A/8260D	J
Bromomethane	ND	9100	9100	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
2-Butanone (MEK)	ND	4550	9100	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
n-Butylbenzene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
sec-Butylbenzene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
tert-Butylbenzene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Carbon disulfide	ND	4550	9100	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Carbon tetrachloride	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Chlorobenzene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Chloroethane	ND	4550	9100	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Chloroform	37000	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Chloromethane	ND	2280	4550	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
2-Chlorotoluene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
4-Chlorotoluene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Dibromochloromethane	3920	910	1820	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	2280	4550	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Dibromomethane	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,2-Dichlorobenzene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,3-Dichlorobenzene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,4-Dichlorobenzene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Dichlorodifluoromethane	ND	910	1820	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,1-Dichloroethane	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,1-Dichloroethene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
cis-1,2-Dichloroethene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
trans-1,2-Dichloroethene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/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
BF-101822-145 (A2J0599-01RE1)				Matrix: Solid		Batch: 22J0853		V-15
1,2-Dichloropropane	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,3-Dichloropropane	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
2,2-Dichloropropane	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,1-Dichloropropene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
cis-1,3-Dichloropropene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
trans-1,3-Dichloropropene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Ethylbenzene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Hexachlorobutadiene	ND	910	1820	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
2-Hexanone	ND	4550	9100	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Isopropylbenzene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
4-Isopropyltoluene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Methylene chloride	ND	4550	9100	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	4550	9100	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Naphthalene	9800	910	1820	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
n-Propylbenzene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Styrene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Tetrachloroethene (PCE)	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Toluene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,2,3-Trichlorobenzene	ND	2280	4550	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,2,4-Trichlorobenzene	ND	2280	4550	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,1,1-Trichloroethane	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,1,2-Trichloroethane	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Trichloroethene (TCE)	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Trichlorofluoromethane	ND	1820	1820	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,2,3-Trichloropropane	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,2,4-Trimethylbenzene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
1,3,5-Trimethylbenzene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
Vinyl chloride	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
m,p-Xylene	ND	455	910	ug/kg dry	50	10/21/22 22:44	5035A/8260D	
o-Xylene	ND	228	455	ug/kg dry	50	10/21/22 22:44	5035A/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
BF-101822-145 (A2J0599-01RE1)				Matrix: Solid		Batch: 22J0853		V-15
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/21/22 22:44</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/21/22 22:44</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>	<i>1</i>	<i>10/21/22 22:44</i>	<i>5035A/8260D</i>	

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ANALYTICAL SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01)				Matrix: Solid		Batch: 22J1147		
Benzene	ND	6.25	12.5	ug/L	50	10/28/22 22:40	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	10/28/22 22:40	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	10/28/22 22:40	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	10/28/22 22:40	1311/8260D	
Chloroform	92.0	25.0	50.0	ug/L	50	10/28/22 22:40	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	10/28/22 22:40	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	10/28/22 22:40	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	10/28/22 22:40	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	10/28/22 22:40	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	10/28/22 22:40	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	10/28/22 22:40	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/28/22 22:40</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/28/22 22:40</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/28/22 22:40</i>	<i>1311/8260D</i>

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01)				Matrix: Solid		Batch: 22J1188		
Acenaphthene	ND	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Acenaphthylene	ND	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Anthracene	ND	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Benz(a)anthracene	ND	8110	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Benzo(a)pyrene	ND	6080	12200	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Benzo(b)fluoranthene	ND	8110	12200	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Benzo(k)fluoranthene	ND	6080	12200	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Benzo(g,h,i)perylene	ND	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Chrysene	ND	8110	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Dibenz(a,h)anthracene	ND	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Fluoranthene	28500	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Fluorene	40300	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
1-Methylnaphthalene	ND	8110	16200	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2-Methylnaphthalene	ND	8110	16200	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Naphthalene	10800	8110	16200	ug/kg dry	200	10/31/22 18:19	EPA 8270E	J
Phenanthrene	57400	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Pyrene	ND	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Dibenzofuran	6610	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	J
2-Chlorophenol	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
4-Chloro-3-methylphenol	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2,4-Dichlorophenol	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2,4-Dimethylphenol	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2,4-Dinitrophenol	ND	101000	203000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	101000	203000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2-Methylphenol	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
3+4-Methylphenol(s)	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2-Nitrophenol	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
4-Nitrophenol	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Pentachlorophenol (PCP)	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Phenol	ND	8110	16200	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	

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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01)				Matrix: Solid		Batch: 22J1188		
2,4,5-Trichlorophenol	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Nitrobenzene	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2,4,6-Trichlorophenol	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	60800	122000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Butyl benzyl phthalate	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Diethylphthalate	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Dimethylphthalate	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Di-n-butylphthalate	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Di-n-octyl phthalate	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
N-Nitrosodimethylamine	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
N-Nitrosodiphenylamine	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Hexachlorobenzene	ND	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Hexachlorobutadiene	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Hexachlorocyclopentadiene	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Hexachloroethane	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2-Chloronaphthalene	ND	4040	8110	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
1,2,4-Trichlorobenzene	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
4-Bromophenyl phenyl ether	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Aniline	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
4-Chloroaniline	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2-Nitroaniline	ND	81100	162000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
3-Nitroaniline	ND	81100	162000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
4-Nitroaniline	ND	81100	162000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2,4-Dinitrotoluene	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
2,6-Dinitrotoluene	ND	40400	81100	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Benzoic acid	ND	507000	1010000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Benzyl alcohol	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Isophorone	ND	20300	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
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ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01)				Matrix: Solid		Batch: 22J1188		
Azobenzene (1,2-DPH)	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	101000	203000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
3,3'-Dichlorobenzidine	ND	81100	162000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	101000	203000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
1,3-Dinitrobenzene	ND	101000	203000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
1,4-Dinitrobenzene	ND	101000	203000	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
Pyridine	ND	20300	40400	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
1,2-Dichlorobenzene	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
1,3-Dichlorobenzene	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
1,4-Dichlorobenzene	ND	10100	20300	ug/kg dry	200	10/31/22 18:19	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 68 %</i>	<i>Limits: 37-122 %</i>	<i>200</i>	<i>10/31/22 18:19</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorobiphenyl (Surr)</i>			<i>51 %</i>	<i>44-120 %</i>	<i>200</i>	<i>10/31/22 18:19</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>Phenol-d6 (Surr)</i>			<i>5 %</i>	<i>33-122 %</i>	<i>200</i>	<i>10/31/22 18:19</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>			<i>58 %</i>	<i>54-127 %</i>	<i>200</i>	<i>10/31/22 18:19</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>			<i>6 %</i>	<i>35-120 %</i>	<i>200</i>	<i>10/31/22 18:19</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>			<i>%</i>	<i>39-132 %</i>	<i>200</i>	<i>10/31/22 18:19</i>	<i>EPA 8270E</i>	<i>S-01</i>
BF-101822-145 (A2J0599-01RE1)				Matrix: Solid		Batch: 22J1188		
Carbazole	57300	6080	12200	ug/kg dry	200	11/01/22 14:37	EPA 8270E	

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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	
BF-101822-145 (A2J0599-01)				Matrix: Solid					
Batch: 22J1085									
Arsenic	116000	5390	10800	ug/kg dry	10	10/31/22 22:01	EPA 6020B		
Barium	165000	5390	10800	ug/kg dry	10	10/31/22 22:01	EPA 6020B		
Cadmium	ND	1080	2160	ug/kg dry	10	10/31/22 22:01	EPA 6020B		
Chromium	244000	5390	10800	ug/kg dry	10	10/31/22 22:01	EPA 6020B		
Lead	9990	1080	2160	ug/kg dry	10	10/31/22 22:01	EPA 6020B		
Mercury	ND	431	862	ug/kg dry	10	10/31/22 22:01	EPA 6020B		
Selenium	ND	5390	10800	ug/kg dry	10	10/31/22 22:01	EPA 6020B		
Silver	ND	1080	2160	ug/kg dry	10	10/31/22 22:01	EPA 6020B		

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ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01)				Matrix: Solid				
<u>Batch: 22J1016</u>								
Arsenic	ND	50.0	100	ug/L	10	10/26/22 20:08	1311/6020B	
Barium	ND	2500	5000	ug/L	10	10/26/22 20:08	1311/6020B	
Cadmium	ND	50.0	100	ug/L	10	10/26/22 20:08	1311/6020B	
Chromium	ND	50.0	100	ug/L	10	10/26/22 20:08	1311/6020B	
Lead	ND	25.0	50.0	ug/L	10	10/26/22 20:08	1311/6020B	
Mercury	ND	3.75	7.00	ug/L	10	10/26/22 20:08	1311/6020B	
Selenium	ND	50.0	100	ug/L	10	10/26/22 20:08	1311/6020B	
Silver	ND	50.0	100	ug/L	10	10/26/22 20:08	1311/6020B	

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ANALYTICAL SAMPLE RESULTS

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01)				Matrix: Solid		Batch: 22J1021		
Total Cyanide	16300	2510	5020	ug/kg dry	5	10/26/22 12:51	D7511-12	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01)				Matrix: Solid		Batch: 22J0822		
% Solids	9.64	1.00	1.00	%	1	10/21/22 05:56	EPA 8000D	

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ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
BF-101822-145 (A2J0599-01)				Matrix: Solid		Batch: 22J0915		
TCLP Extraction	PREP			N/A	1	10/24/22 17:13	EPA 1311	
TCLP ZHE Extraction	PREP			N/A	1	10/26/22 16:50	EPA 1311 ZHE	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0894 - EPA 3546 (Fuels)						Solid						
Blank (22J0894-BLK1)			Prepared: 10/24/22 06:59 Analyzed: 10/24/22 22:09									
<u>NWTPH-Dx</u>												
Diesel	ND	9090	18200	ug/kg	1	---	---	---	---	---	---	
Oil	ND	18200	36400	ug/kg	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (22J0894-BS1)			Prepared: 10/24/22 06:59 Analyzed: 10/24/22 22:32									
<u>NWTPH-Dx</u>												
Diesel	115000	10000	20000	ug/kg	1	125000	---	92	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (22J0894-DUP1)			Prepared: 10/24/22 06:59 Analyzed: 10/24/22 23:18									
<u>QC Source Sample: Non-SDG (A2J0559-01)</u>												
Diesel	8970000	196000	391000	ug/kg	20	---	7810000	---	---	14	30%	F-19
Oil	2520000	391000	783000	ug/kg	20	---	2310000	---	---	9	30%	F-19
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 20x</i>						S-01

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0799 - EPA 5035A						Soil						
Blank (22J0799-BLK1)						Prepared: 10/20/22 09:00 Analyzed: 10/20/22 14:10						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	1670	3330	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>98 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (22J0799-BS2)						Prepared: 10/20/22 09:00 Analyzed: 10/20/22 13:43						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	24000	2500	5000	ug/kg wet	50	25000	---	96	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (22J0799-DUP1)						Prepared: 10/15/22 17:00 Analyzed: 10/20/22 16:25						
<u>QC Source Sample: Non-SDG (A2J0583-01)</u>												
Gasoline Range Organics	ND	4070	8140	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>94 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (22J0799-DUP2)						Prepared: 10/19/22 15:20 Analyzed: 10/20/22 20:55						
<u>QC Source Sample: Non-SDG (A2J0603-01)</u>												
Gasoline Range Organics	ND	6860	13700	ug/kg dry	100	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>94 %</i>		<i>50-150 %</i>		<i>"</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0853 - EPA 5035A						Soil						
Blank (22J0853-BLK1)			Prepared: 10/21/22 11:03 Analyzed: 10/21/22 15:58									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	1670	3330	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>96 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (22J0853-BS2)			Prepared: 10/21/22 11:03 Analyzed: 10/21/22 15:31									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	23500	2500	5000	ug/kg wet	50	25000	---	94	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>109 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (22J0853-DUP1)			Prepared: 10/20/22 18:09 Analyzed: 10/21/22 17:46									COMP, V-15
<u>QC Source Sample: Non-SDG (A2J0657-09)</u>												
Gasoline Range Organics	8040	3660	7310	ug/kg dry	50	---	8210	---	---	2	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>96 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (22J0853-DUP2)			Prepared: 10/18/22 11:45 Analyzed: 10/21/22 20:28									
<u>QC Source Sample: Non-SDG (A2J0622-04)</u>												
Gasoline Range Organics	10100	7670	15300	ug/kg dry	50	---	9960	---	---	2	30%	J
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>99 %</i>		<i>50-150 %</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 22J0799 - EPA 5035A						Soil						
Blank (22J0799-BLK1)			Prepared: 10/20/22 09:00 Analyzed: 10/20/22 14:10									
<u>5035A/8260D</u>												
Acetone	ND	333	667	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	3.33	6.67	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	333	333	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	83.3	167	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	83.3	167	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0799 - EPA 5035A						Soil						
Blank (22J0799-BLK1)			Prepared: 10/20/22 09:00 Analyzed: 10/20/22 14:10									
1,2-Dichloropropane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	83.3	167	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	83.3	167	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr)

Recovery: 102 % Limits: 80-120 %

Dilution: 1x

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0799 - EPA 5035A						Soil						
Blank (22J0799-BLK1)						Prepared: 10/20/22 09:00 Analyzed: 10/20/22 14:10						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (22J0799-BS1)						Prepared: 10/20/22 09:00 Analyzed: 10/20/22 13:08						
5035A/8260D												
Acetone	2040	500	1000	ug/kg wet	50	2000	---	102	80-120%	---	---	
Acrylonitrile	1030	50.0	100	ug/kg wet	50	1000	---	103	80-120%	---	---	
Benzene	1000	5.00	10.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromobenzene	990	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Bromochloromethane	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Bromodichloromethane	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Bromoform	1220	50.0	100	ug/kg wet	50	1000	---	122	80-120%	---	---	Q-56
Bromomethane	1220	500	500	ug/kg wet	50	1000	---	122	80-120%	---	---	Q-56
2-Butanone (MEK)	1940	250	500	ug/kg wet	50	2000	---	97	80-120%	---	---	
n-Butylbenzene	994	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
sec-Butylbenzene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
tert-Butylbenzene	970	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Carbon disulfide	1060	250	500	ug/kg wet	50	1000	---	106	80-120%	---	---	
Carbon tetrachloride	1150	25.0	50.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
Chlorobenzene	973	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Chloroethane	1080	250	500	ug/kg wet	50	1000	---	108	80-120%	---	---	
Chloroform	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Chloromethane	1040	125	250	ug/kg wet	50	1000	---	104	80-120%	---	---	
2-Chlorotoluene	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
4-Chlorotoluene	988	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Dibromochloromethane	1130	50.0	100	ug/kg wet	50	1000	---	113	80-120%	---	---	
1,2-Dibromo-3-chloropropane	1040	125	250	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2-Dibromoethane (EDB)	990	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Dibromomethane	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,2-Dichlorobenzene	980	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,3-Dichlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,4-Dichlorobenzene	969	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Dichlorodifluoromethane	1050	50.0	100	ug/kg wet	50	1000	---	105	80-120%	---	---	ICV-01
1,1-Dichloroethane	1050	12.5	25.0	ug/kg wet	50	1000	---	105	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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0799 - EPA 5035A						Soil						
LCS (22J0799-BS1)			Prepared: 10/20/22 09:00 Analyzed: 10/20/22 13:08									
1,2-Dichloroethane (EDC)	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
1,1-Dichloroethene	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
cis-1,2-Dichloroethene	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
trans-1,2-Dichloroethene	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,2-Dichloropropane	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
1,3-Dichloropropane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
2,2-Dichloropropane	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
1,1-Dichloropropene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
cis-1,3-Dichloropropene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
trans-1,3-Dichloropropene	1060	25.0	50.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
Ethylbenzene	980	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Hexachlorobutadiene	1040	50.0	100	ug/kg wet	50	1000	---	104	80-120%	---	---	
2-Hexanone	1900	250	500	ug/kg wet	50	2000	---	95	80-120%	---	---	
Isopropylbenzene	990	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
4-Isopropyltoluene	976	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Methylene chloride	1060	250	500	ug/kg wet	50	1000	---	106	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1860	250	500	ug/kg wet	50	2000	---	93	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	956	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Naphthalene	954	50.0	100	ug/kg wet	50	1000	---	95	80-120%	---	---	
n-Propylbenzene	984	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Styrene	978	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,1,2,2-Tetrachloroethane	980	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Tetrachloroethene (PCE)	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Toluene	971	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2,3-Trichlorobenzene	1010	125	250	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,2,4-Trichlorobenzene	989	125	250	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,1,1-Trichloroethane	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
1,1,2-Trichloroethane	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Trichloroethene (TCE)	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Trichlorofluoromethane	1100	50.0	100	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,2,3-Trichloropropane	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,2,4-Trimethylbenzene	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,3,5-Trimethylbenzene	995	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0799 - EPA 5035A						Soil						
LCS (22J0799-BS1)						Prepared: 10/20/22 09:00 Analyzed: 10/20/22 13:08						
Vinyl chloride	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
m,p-Xylene	1930	25.0	50.0	ug/kg wet	50	2000	---	96	80-120%	---	---	
o-Xylene	940	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (22J0799-DUP1)						Prepared: 10/15/22 17:00 Analyzed: 10/20/22 16:25						
QC Source Sample: Non-SDG (A2J0583-01)												
Acetone	ND	814	1630	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	81.4	163	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	8.14	16.3	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	81.4	163	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	814	814	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	407	814	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	407	814	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	407	814	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	204	407	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	81.4	163	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	204	407	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0799 - EPA 5035A						Soil						
Duplicate (22J0799-DUP1)			Prepared: 10/15/22 17:00 Analyzed: 10/20/22 16:25									
QC Source Sample: Non-SDG (A2J0583-01)												
1,3-Dichlorobenzene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	81.4	163	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	81.4	163	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	407	814	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	407	814	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	407	814	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	81.4	163	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	204	407	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	204	407	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
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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 22J0799 - EPA 5035A												
Soil												
Duplicate (22J0799-DUP1) Prepared: 10/15/22 17:00 Analyzed: 10/20/22 16:25												
QC Source Sample: Non-SDG (A2J0583-01)												
Trichloroethene (TCE)	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	81.4	163	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	40.7	81.4	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	20.4	40.7	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (22J0799-DUP2) Prepared: 10/19/22 15:20 Analyzed: 10/20/22 20:55												
QC Source Sample: Non-SDG (A2J0603-01)												
Acetone	ND	1370	2740	ug/kg dry	100	---	ND	---	---	---	30%	
Acrylonitrile	ND	137	274	ug/kg dry	100	---	ND	---	---	---	30%	
Benzene	37.1	13.7	27.4	ug/kg dry	100	---	38.4	---	---	4	30%	
Bromobenzene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%	
Bromochloromethane	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
Bromodichloromethane	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
Bromoform	ND	137	274	ug/kg dry	100	---	ND	---	---	---	30%	
Bromomethane	ND	1370	1370	ug/kg dry	100	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	686	1370	ug/kg dry	100	---	ND	---	---	---	30%	
n-Butylbenzene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
Carbon disulfide	ND	686	1370	ug/kg dry	100	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
Chlorobenzene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%	
Chloroethane	ND	686	1370	ug/kg dry	100	---	ND	---	---	---	30%	
Chloroform	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
Chloromethane	ND	343	686	ug/kg dry	100	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	68.6	137	ug/kg dry	100	---	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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0799 - EPA 5035A							Soil						
Duplicate (22J0799-DUP2)			Prepared: 10/19/22 15:20 Analyzed: 10/20/22 20:55						V-15				
QC Source Sample: Non-SDG (A2J0603-01)													
4-Chlorotoluene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
Dibromochloromethane	ND	137	274	ug/kg dry	100	---	ND	---	---	---	30%		
1,2-Dibromo-3-chloropropane	ND	343	686	ug/kg dry	100	---	ND	---	---	---	30%		
1,2-Dibromoethane (EDB)	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
Dibromomethane	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
1,2-Dichlorobenzene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
1,3-Dichlorobenzene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
Dichlorodifluoromethane	ND	137	274	ug/kg dry	100	---	ND	---	---	---	30%		
1,1-Dichloroethane	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
1,2-Dichloroethane (EDC)	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
1,1-Dichloroethene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
cis-1,2-Dichloroethene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
trans-1,2-Dichloroethene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
1,2-Dichloropropane	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
1,3-Dichloropropane	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
2,2-Dichloropropane	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
1,1-Dichloropropene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
cis-1,3-Dichloropropene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
trans-1,3-Dichloropropene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
Ethylbenzene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
Hexachlorobutadiene	ND	137	274	ug/kg dry	100	---	ND	---	---	---	30%		
2-Hexanone	ND	686	1370	ug/kg dry	100	---	ND	---	---	---	30%		
Isopropylbenzene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
4-Isopropyltoluene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
Methylene chloride	ND	686	1370	ug/kg dry	100	---	ND	---	---	---	30%		
4-Methyl-2-pentanone (MiBK)	ND	686	1370	ug/kg dry	100	---	ND	---	---	---	30%		
Methyl tert-butyl ether (MTBE)	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
Naphthalene	ND	137	274	ug/kg dry	100	---	ND	---	---	---	30%		
n-Propylbenzene	79.6	34.3	68.6	ug/kg dry	100	---	81.0	---	---	2	30%		
Styrene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		
1,1,1,2-Tetrachloroethane	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%		
1,1,2,2-Tetrachloroethane	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%		

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0799 - EPA 5035A												
Soil												
Duplicate (22J0799-DUP2)												
						Prepared: 10/19/22 15:20 Analyzed: 10/20/22 20:55						V-15
QC Source Sample: Non-SDG (A2J0603-01)												
Tetrachloroethene (PCE)	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%	
Toluene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	343	686	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	343	686	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	137	274	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
Vinyl chloride	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%	
m,p-Xylene	ND	68.6	137	ug/kg dry	100	---	ND	---	---	---	30%	
o-Xylene	ND	34.3	68.6	ug/kg dry	100	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (22J0799-MS1)												
						Prepared: 10/19/22 16:25 Analyzed: 10/21/22 00:04						V-16
QC Source Sample: Non-SDG (A2J0608-04)												
5035A/8260D												
Acetone	36400	9520	19000	ug/kg wet	200	38100	ND	96	36-164%	---	---	
Acrylonitrile	19200	952	1900	ug/kg wet	200	19000	ND	93	65-134%	---	---	
Benzene	22500	95.2	190	ug/kg wet	200	19000	4030	97	77-121%	---	---	
Bromobenzene	19200	238	476	ug/kg wet	200	19000	ND	101	78-121%	---	---	
Bromochloromethane	17900	476	952	ug/kg wet	200	19000	ND	94	78-125%	---	---	
Bromodichloromethane	19700	476	952	ug/kg wet	200	19000	ND	104	75-127%	---	---	
Bromoform	22000	952	1900	ug/kg wet	200	19000	ND	115	67-132%	---	---	Q-54a
Bromomethane	24800	9520	9520	ug/kg wet	200	19000	ND	130	53-143%	---	---	Q-54a
2-Butanone (MEK)	37100	4760	9520	ug/kg wet	200	38100	ND	97	51-148%	---	---	
n-Butylbenzene	57000	476	952	ug/kg wet	200	19000	33800	122	70-128%	---	---	
sec-Butylbenzene	49300	476	952	ug/kg wet	200	19000	27200	116	73-126%	---	---	
tert-Butylbenzene	21000	476	952	ug/kg wet	200	19000	ND	110	73-125%	---	---	

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0799 - EPA 5035A							Soil						
Matrix Spike (22J0799-MS1)			Prepared: 10/19/22 16:25 Analyzed: 10/21/22 00:04						V-16				
QC Source Sample: Non-SDG (A2J0608-04)													
Carbon disulfide	22400	4760	9520	ug/kg wet	200	19000	ND	118	63-132%	---	---		
Carbon tetrachloride	23200	476	952	ug/kg wet	200	19000	ND	122	70-135%	---	---		
Chlorobenzene	18800	238	476	ug/kg wet	200	19000	ND	99	79-120%	---	---		
Chloroethane	23000	4760	9520	ug/kg wet	200	19000	ND	121	59-139%	---	---		
Chloroform	19200	476	952	ug/kg wet	200	19000	ND	101	78-123%	---	---		
Chloromethane	18200	2380	4760	ug/kg wet	200	19000	ND	95	50-136%	---	---		
2-Chlorotoluene	21300	476	952	ug/kg wet	200	19000	ND	106	75-122%	---	---		
4-Chlorotoluene	19200	476	952	ug/kg wet	200	19000	ND	101	72-124%	---	---		
Dibromochloromethane	20700	952	1900	ug/kg wet	200	19000	ND	109	74-126%	---	---		
1,2-Dibromo-3-chloropropane	21500	2380	4760	ug/kg wet	200	19000	ND	113	61-132%	---	---		
1,2-Dibromoethane (EDB)	19300	476	952	ug/kg wet	200	19000	ND	101	78-122%	---	---		
Dibromomethane	19800	476	952	ug/kg wet	200	19000	ND	104	78-125%	---	---		
1,2-Dichlorobenzene	22100	238	476	ug/kg wet	200	19000	3110	100	78-121%	---	---		
1,3-Dichlorobenzene	19500	238	476	ug/kg wet	200	19000	ND	103	77-121%	---	---		
1,4-Dichlorobenzene	18700	238	476	ug/kg wet	200	19000	ND	98	75-120%	---	---		
Dichlorodifluoromethane	22700	952	1900	ug/kg wet	200	19000	ND	119	29-149%	---	---	ICV-01	
1,1-Dichloroethane	18800	238	476	ug/kg wet	200	19000	ND	99	76-125%	---	---		
1,2-Dichloroethane (EDC)	19700	238	476	ug/kg wet	200	19000	ND	103	73-128%	---	---		
1,1-Dichloroethene	22900	238	476	ug/kg wet	200	19000	ND	120	70-131%	---	---		
cis-1,2-Dichloroethene	19400	238	476	ug/kg wet	200	19000	ND	102	77-123%	---	---		
trans-1,2-Dichloroethene	19500	238	476	ug/kg wet	200	19000	ND	102	74-125%	---	---		
1,2-Dichloropropane	19000	238	476	ug/kg wet	200	19000	ND	100	76-123%	---	---		
1,3-Dichloropropane	18800	476	952	ug/kg wet	200	19000	ND	99	77-121%	---	---		
2,2-Dichloropropane	18100	476	952	ug/kg wet	200	19000	ND	95	67-133%	---	---		
1,1-Dichloropropene	20000	476	952	ug/kg wet	200	19000	ND	105	76-125%	---	---		
cis-1,3-Dichloropropene	18300	476	952	ug/kg wet	200	19000	ND	96	74-126%	---	---		
trans-1,3-Dichloropropene	18600	476	952	ug/kg wet	200	19000	ND	97	71-130%	---	---		
Ethylbenzene	106000	238	476	ug/kg wet	200	19000	88500	94	76-122%	---	---		
Hexachlorobutadiene	33500	952	1900	ug/kg wet	200	19000	ND	176	61-135%	---	---	Q-01	
2-Hexanone	35100	4760	9520	ug/kg wet	200	38100	ND	92	53-145%	---	---		
Isopropylbenzene	33300	476	952	ug/kg wet	200	19000	12400	110	68-134%	---	---		
4-Isopropyltoluene	32900	476	952	ug/kg wet	200	19000	8800	127	73-127%	---	---		
Methylene chloride	19600	4760	9520	ug/kg wet	200	19000	ND	103	70-128%	---	---		

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0799 - EPA 5035A						Soil						
Matrix Spike (22J0799-MS1)						Prepared: 10/19/22 16:25 Analyzed: 10/21/22 00:04						V-16
QC Source Sample: Non-SDG (A2J0608-04)												
4-Methyl-2-pentanone (MiBK)	38600	4760	9520	ug/kg wet	200	38100	ND	86	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	18200	476	952	ug/kg wet	200	19000	ND	95	73-125%	---	---	
Naphthalene	161000	952	1900	ug/kg wet	200	19000	139000	113	62-129%	---	---	
n-Propylbenzene	81400	238	476	ug/kg wet	200	19000	62100	102	73-125%	---	---	
Styrene	20800	476	952	ug/kg wet	200	19000	ND	106	76-124%	---	---	
1,1,1,2-Tetrachloroethane	20800	238	476	ug/kg wet	200	19000	ND	109	78-125%	---	---	
1,1,2,2-Tetrachloroethane	17000	10500	10500	ug/kg wet	200	19000	ND	90	70-124%	---	---	
Tetrachloroethene (PCE)	21100	238	476	ug/kg wet	200	19000	ND	111	73-128%	---	---	
Toluene	201000	476	952	ug/kg wet	200	19000	188000	72	77-121%	---	---	E, Q-03
1,2,3-Trichlorobenzene	23400	2380	4760	ug/kg wet	200	19000	ND	123	66-130%	---	---	
1,2,4-Trichlorobenzene	23000	2380	4760	ug/kg wet	200	19000	ND	121	67-129%	---	---	
1,1,1-Trichloroethane	21100	238	476	ug/kg wet	200	19000	ND	111	73-130%	---	---	
1,1,2-Trichloroethane	19200	238	476	ug/kg wet	200	19000	ND	96	78-121%	---	---	
Trichloroethene (TCE)	21500	238	476	ug/kg wet	200	19000	ND	113	77-123%	---	---	
Trichlorofluoromethane	19100	952	1900	ug/kg wet	200	19000	ND	100	62-140%	---	---	
1,2,3-Trichloropropane	20900	476	952	ug/kg wet	200	19000	ND	103	73-125%	---	---	
1,2,4-Trimethylbenzene	465000	476	952	ug/kg wet	200	19000	452000	68	75-123%	---	---	E, Q-03
1,3,5-Trimethylbenzene	133000	476	952	ug/kg wet	200	19000	111000	115	73-124%	---	---	
Vinyl chloride	22100	238	476	ug/kg wet	200	19000	ND	116	56-135%	---	---	
m,p-Xylene	419000	476	952	ug/kg wet	200	38100	384000	92	77-124%	---	---	E
o-Xylene	177000	238	476	ug/kg wet	200	19000	162000	79	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>79-120 %</i>		<i>"</i>						

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A						Soil						
Blank (22J0853-BLK1)			Prepared: 10/21/22 11:03 Analyzed: 10/21/22 15:58									
<u>5035A/8260D</u>												
Acetone	ND	333	667	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	3.33	6.67	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	333	333	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	83.3	167	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	83.3	167	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A						Soil						
Blank (22J0853-BLK1)			Prepared: 10/21/22 11:03 Analyzed: 10/21/22 15:58									
1,2-Dichloropropane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	167	333	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	33.3	66.7	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	83.3	167	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	83.3	167	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	66.7	66.7	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	16.7	33.3	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	8.33	16.7	ug/kg wet	50	---	---	---	---	---	---	

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

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A						Soil						
Blank (22J0853-BLK1)						Prepared: 10/21/22 11:03 Analyzed: 10/21/22 15:58						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (22J0853-BS1)						Prepared: 10/21/22 11:03 Analyzed: 10/21/22 15:02						
5035A/8260D												
Acetone	1840	500	1000	ug/kg wet	50	2000	---	92	80-120%	---	---	
Acrylonitrile	947	50.0	100	ug/kg wet	50	1000	---	95	80-120%	---	---	
Benzene	951	5.00	10.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Bromobenzene	958	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Bromochloromethane	982	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromodichloromethane	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Bromoform	1150	50.0	100	ug/kg wet	50	1000	---	115	80-120%	---	---	
Bromomethane	1180	500	500	ug/kg wet	50	1000	---	118	80-120%	---	---	
2-Butanone (MEK)	1760	250	500	ug/kg wet	50	2000	---	88	80-120%	---	---	
n-Butylbenzene	996	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
sec-Butylbenzene	990	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
tert-Butylbenzene	945	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Carbon disulfide	980	250	500	ug/kg wet	50	1000	---	98	80-120%	---	---	
Carbon tetrachloride	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Chlorobenzene	946	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Chloroethane	1040	250	500	ug/kg wet	50	1000	---	104	80-120%	---	---	
Chloroform	990	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Chloromethane	958	125	250	ug/kg wet	50	1000	---	96	80-120%	---	---	
2-Chlorotoluene	988	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
4-Chlorotoluene	973	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Dibromochloromethane	1080	50.0	100	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,2-Dibromo-3-chloropropane	930	125	250	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,2-Dibromoethane (EDB)	969	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Dibromomethane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,2-Dichlorobenzene	957	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,3-Dichlorobenzene	978	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,4-Dichlorobenzene	938	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Dichlorodifluoromethane	982	50.0	100	ug/kg wet	50	1000	---	98	80-120%	---	---	ICV-01
1,1-Dichloroethane	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A						Soil						
LCS (22J0853-BS1)			Prepared: 10/21/22 11:03 Analyzed: 10/21/22 15:02									
1,2-Dichloroethane (EDC)	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,1-Dichloroethene	994	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
cis-1,2-Dichloroethene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
trans-1,2-Dichloroethene	999	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,2-Dichloropropane	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,3-Dichloropropane	969	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
2,2-Dichloropropane	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,1-Dichloropropene	977	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
cis-1,3-Dichloropropene	994	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
trans-1,3-Dichloropropene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Ethylbenzene	944	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Hexachlorobutadiene	1020	50.0	100	ug/kg wet	50	1000	---	102	80-120%	---	---	
2-Hexanone	1720	250	500	ug/kg wet	50	2000	---	86	80-120%	---	---	
Isopropylbenzene	968	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
4-Isopropyltoluene	975	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Methylene chloride	990	250	500	ug/kg wet	50	1000	---	99	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1740	250	500	ug/kg wet	50	2000	---	87	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	944	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Naphthalene	937	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
n-Propylbenzene	960	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Styrene	961	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
1,1,2,2-Tetrachloroethane	896	25.0	50.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
Tetrachloroethene (PCE)	988	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Toluene	938	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	998	125	250	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,2,4-Trichlorobenzene	974	125	250	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,1,1-Trichloroethane	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,1,2-Trichloroethane	948	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Trichloroethene (TCE)	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Trichlorofluoromethane	790	100	100	ug/kg wet	50	1000	---	79	80-120%	---	---	Q-55
1,2,3-Trichloropropane	970	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2,4-Trimethylbenzene	994	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,3,5-Trimethylbenzene	979	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A						Soil						
LCS (22J0853-BS1)			Prepared: 10/21/22 11:03 Analyzed: 10/21/22 15:02									
Vinyl chloride	996	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
m,p-Xylene	1890	25.0	50.0	ug/kg wet	50	2000	---	94	80-120%	---	---	
o-Xylene	921	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (22J0853-DUP1) Prepared: 10/20/22 18:09 Analyzed: 10/21/22 17:46 **COMP, V-15**

QC Source Sample: Non-SDG (A2J0657-09)

Acetone	ND	731	1460	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	73.1	146	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	10.2	7.31	14.6	ug/kg dry	50	---	11.0	---	---	7	30%	J
Bromobenzene	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	73.1	146	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	731	731	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	366	731	ug/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	366	731	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	366	731	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	183	366	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	73.1	146	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	183	366	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A						Soil							
Duplicate (22J0853-DUP1)						Prepared: 10/20/22 18:09 Analyzed: 10/21/22 17:46						COMP, V-15	
QC Source Sample: Non-SDG (A2J0657-09)													
1,3-Dichlorobenzene	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
Dichlorodifluoromethane	ND	73.1	146	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethane	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloroethane (EDC)	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethene	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,2-Dichloroethene	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,2-Dichloroethene	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloropropane	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,3-Dichloropropane	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
2,2-Dichloropropane	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloropropene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,3-Dichloropropene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,3-Dichloropropene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
Ethylbenzene	24.1	18.3	36.6	ug/kg dry	50	---	24.9	---	---	3	30%	J	
Hexachlorobutadiene	ND	73.1	146	ug/kg dry	50	---	ND	---	---	---	30%		
2-Hexanone	ND	366	731	ug/kg dry	50	---	ND	---	---	---	30%		
Isopropylbenzene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
4-Isopropyltoluene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
Methylene chloride	ND	366	731	ug/kg dry	50	---	ND	---	---	---	30%		
4-Methyl-2-pentanone (MiBK)	ND	366	731	ug/kg dry	50	---	ND	---	---	---	30%		
Methyl tert-butyl ether (MTBE)	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
Naphthalene	2040	73.1	146	ug/kg dry	50	---	2040	---	---	0.3	30%		
n-Propylbenzene	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
Styrene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1,2-Tetrachloroethane	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2,2-Tetrachloroethane	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
Tetrachloroethene (PCE)	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
Toluene	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,3-Trichlorobenzene	ND	183	366	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,4-Trichlorobenzene	ND	183	366	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1-Trichloroethane	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2-Trichloroethane	ND	18.3	36.6	ug/kg dry	50	---	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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A						Soil							
Duplicate (22J0853-DUP1)			Prepared: 10/20/22 18:09 Analyzed: 10/21/22 17:46						COMP, V-15				
QC Source Sample: Non-SDG (A2J0657-09)													
Trichloroethene (TCE)	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
Trichlorofluoromethane	ND	146	146	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,3-Trichloropropane	ND	36.6	73.1	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,4-Trimethylbenzene	106	36.6	73.1	ug/kg dry	50	---	108	---	---	2	30%		
1,3,5-Trimethylbenzene	44.6	36.6	73.1	ug/kg dry	50	---	44.6	---	---	0	30%	J	
Vinyl chloride	ND	18.3	36.6	ug/kg dry	50	---	ND	---	---	---	30%		
m,p-Xylene	135	36.6	73.1	ug/kg dry	50	---	143	---	---	6	30%		
o-Xylene	51.9	18.3	36.6	ug/kg dry	50	---	56.3	---	---	8	30%		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>							

Duplicate (22J0853-DUP2)			Prepared: 10/18/22 11:45 Analyzed: 10/21/22 20:28										
QC Source Sample: Non-SDG (A2J0622-04)													
Acetone	ND	1530	3070	ug/kg dry	50	---	ND	---	---	---	30%		
Acrylonitrile	ND	153	307	ug/kg dry	50	---	ND	---	---	---	30%		
Benzene	ND	15.3	30.7	ug/kg dry	50	---	ND	---	---	---	30%		
Bromobenzene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%		
Bromochloromethane	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%		
Bromodichloromethane	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%		
Bromoform	ND	153	307	ug/kg dry	50	---	ND	---	---	---	30%		
Bromomethane	ND	1530	1530	ug/kg dry	50	---	ND	---	---	---	30%		
2-Butanone (MEK)	ND	767	1530	ug/kg dry	50	---	ND	---	---	---	30%		
n-Butylbenzene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%		
sec-Butylbenzene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%		
tert-Butylbenzene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%		
Carbon disulfide	ND	767	1530	ug/kg dry	50	---	ND	---	---	---	30%		
Carbon tetrachloride	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%		
Chlorobenzene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%		
Chloroethane	ND	767	1530	ug/kg dry	50	---	ND	---	---	---	30%		
Chloroform	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%		
Chloromethane	ND	384	767	ug/kg dry	50	---	ND	---	---	---	30%		
2-Chlorotoluene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%		

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A						Soil						
Duplicate (22J0853-DUP2)			Prepared: 10/18/22 11:45 Analyzed: 10/21/22 20:28									
QC Source Sample: Non-SDG (A2J0622-04)												
4-Chlorotoluene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	153	307	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	384	767	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	153	307	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	153	307	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	767	1530	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	232	76.7	153	ug/kg dry	50	---	230	---	---	0.7	30%	
Methylene chloride	ND	767	1530	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	767	1530	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	153	307	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A												
Soil												
Duplicate (22J0853-DUP2)												
Prepared: 10/18/22 11:45 Analyzed: 10/21/22 20:28												
QC Source Sample: Non-SDG (A2J0622-04)												
Tetrachloroethene (PCE)	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	118	76.7	153	ug/kg dry	50	---	120	---	---	1	30%	J
1,2,3-Trichlorobenzene	ND	384	767	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	384	767	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	307	307	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	76.7	153	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	38.4	76.7	ug/kg dry	50	---	ND	---	---	---	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>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (22J0853-MS1)												
Prepared: 10/19/22 07:55 Analyzed: 10/22/22 00:59												
QC Source Sample: Non-SDG (A2J0616-02)												
5035A/8260D												
Acetone	12900	3590	7170	ug/kg dry	200	14300	ND	90	36-164%	---	---	
Acrylonitrile	6510	359	717	ug/kg dry	200	7170	ND	91	65-134%	---	---	
Benzene	6740	35.9	71.7	ug/kg dry	200	7170	ND	94	77-121%	---	---	
Bromobenzene	7070	89.6	179	ug/kg dry	200	7170	ND	99	78-121%	---	---	
Bromochloromethane	6510	179	359	ug/kg dry	200	7170	ND	91	78-125%	---	---	
Bromodichloromethane	7230	179	359	ug/kg dry	200	7170	ND	101	75-127%	---	---	
Bromoform	8160	359	717	ug/kg dry	200	7170	ND	114	67-132%	---	---	
Bromomethane	9230	3590	3590	ug/kg dry	200	7170	ND	129	53-143%	---	---	
2-Butanone (MEK)	12000	1790	3590	ug/kg dry	200	14300	ND	84	51-148%	---	---	
n-Butylbenzene	13500	179	359	ug/kg dry	200	7170	6760	95	70-128%	---	---	
sec-Butylbenzene	10800	179	359	ug/kg dry	200	7170	3910	96	73-126%	---	---	
tert-Butylbenzene	6780	179	359	ug/kg dry	200	7170	ND	95	73-125%	---	---	

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

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 22J0853 - EPA 5035A						Soil						
Matrix Spike (22J0853-MS1)						Prepared: 10/19/22 07:55 Analyzed: 10/22/22 00:59						
QC Source Sample: Non-SDG (A2J0616-02)												
Carbon disulfide	7780	1790	3590	ug/kg dry	200	7170	ND	109	63-132%	---	---	
Carbon tetrachloride	8510	179	359	ug/kg dry	200	7170	ND	119	70-135%	---	---	
Chlorobenzene	6950	89.6	179	ug/kg dry	200	7170	ND	97	79-120%	---	---	
Chloroethane	10100	1790	3590	ug/kg dry	200	7170	ND	141	59-139%	---	---	Q-01
Chloroform	7140	179	359	ug/kg dry	200	7170	ND	100	78-123%	---	---	
Chloromethane	6510	896	1790	ug/kg dry	200	7170	ND	91	50-136%	---	---	
2-Chlorotoluene	7220	179	359	ug/kg dry	200	7170	ND	101	75-122%	---	---	
4-Chlorotoluene	6820	179	359	ug/kg dry	200	7170	ND	95	72-124%	---	---	
Dibromochloromethane	7690	359	717	ug/kg dry	200	7170	ND	107	74-126%	---	---	
1,2-Dibromo-3-chloropropane	7620	896	1790	ug/kg dry	200	7170	ND	106	61-132%	---	---	
1,2-Dibromoethane (EDB)	6970	179	359	ug/kg dry	200	7170	ND	97	78-122%	---	---	
Dibromomethane	7270	179	359	ug/kg dry	200	7170	ND	101	78-125%	---	---	
1,2-Dichlorobenzene	6710	89.6	179	ug/kg dry	200	7170	ND	94	78-121%	---	---	
1,3-Dichlorobenzene	6870	89.6	179	ug/kg dry	200	7170	ND	96	77-121%	---	---	
1,4-Dichlorobenzene	6660	89.6	179	ug/kg dry	200	7170	ND	93	75-120%	---	---	
Dichlorodifluoromethane	8120	359	717	ug/kg dry	200	7170	ND	113	29-149%	---	---	ICV-01
1,1-Dichloroethane	6940	89.6	179	ug/kg dry	200	7170	ND	97	76-125%	---	---	
1,2-Dichloroethane (EDC)	7270	89.6	179	ug/kg dry	200	7170	ND	101	73-128%	---	---	
1,1-Dichloroethene	8220	89.6	179	ug/kg dry	200	7170	ND	115	70-131%	---	---	
cis-1,2-Dichloroethene	7200	89.6	179	ug/kg dry	200	7170	ND	100	77-123%	---	---	
trans-1,2-Dichloroethene	7220	89.6	179	ug/kg dry	200	7170	ND	101	74-125%	---	---	
1,2-Dichloropropane	6810	89.6	179	ug/kg dry	200	7170	ND	95	76-123%	---	---	
1,3-Dichloropropane	6820	179	359	ug/kg dry	200	7170	ND	95	77-121%	---	---	
2,2-Dichloropropane	6770	179	359	ug/kg dry	200	7170	ND	94	67-133%	---	---	
1,1-Dichloropropene	7280	179	359	ug/kg dry	200	7170	ND	102	76-125%	---	---	
cis-1,3-Dichloropropene	6720	179	359	ug/kg dry	200	7170	ND	94	74-126%	---	---	
trans-1,3-Dichloropropene	6820	179	359	ug/kg dry	200	7170	ND	95	71-130%	---	---	
Ethylbenzene	7780	89.6	179	ug/kg dry	200	7170	835	97	76-122%	---	---	
Hexachlorobutadiene	7920	359	717	ug/kg dry	200	7170	ND	110	61-135%	---	---	
2-Hexanone	12300	1790	3590	ug/kg dry	200	14300	ND	86	53-145%	---	---	
Isopropylbenzene	8440	179	359	ug/kg dry	200	7170	1290	100	68-134%	---	---	
4-Isopropyltoluene	10400	179	359	ug/kg dry	200	7170	3860	92	73-127%	---	---	
Methylene chloride	6730	1790	3590	ug/kg dry	200	7170	ND	94	70-128%	---	---	

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
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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 22J0853 - EPA 5035A						Soil						
Matrix Spike (22J0853-MS1)			Prepared: 10/19/22 07:55 Analyzed: 10/22/22 00:59									
QC Source Sample: Non-SDG (A2J0616-02)												
4-Methyl-2-pentanone (MiBK)	12600	1790	3590	ug/kg dry	200	14300	ND	88	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	6700	179	359	ug/kg dry	200	7170	ND	93	73-125%	---	---	
Naphthalene	28500	359	717	ug/kg dry	200	7170	21700	94	62-129%	---	---	
n-Propylbenzene	9930	89.6	179	ug/kg dry	200	7170	3100	95	73-125%	---	---	
Styrene	7050	179	359	ug/kg dry	200	7170	ND	98	76-124%	---	---	
1,1,1,2-Tetrachloroethane	7630	89.6	179	ug/kg dry	200	7170	ND	106	78-125%	---	---	
1,1,2,2-Tetrachloroethane	6610	179	359	ug/kg dry	200	7170	ND	92	70-124%	---	---	
Tetrachloroethene (PCE)	7580	89.6	179	ug/kg dry	200	7170	ND	106	73-128%	---	---	
Toluene	6870	179	359	ug/kg dry	200	7170	ND	96	77-121%	---	---	
1,2,3-Trichlorobenzene	7500	896	1790	ug/kg dry	200	7170	ND	105	66-130%	---	---	
1,2,4-Trichlorobenzene	7190	896	1790	ug/kg dry	200	7170	ND	100	67-129%	---	---	
1,1,1-Trichloroethane	7750	89.6	179	ug/kg dry	200	7170	ND	108	73-130%	---	---	
1,1,2-Trichloroethane	7360	89.6	179	ug/kg dry	200	7170	ND	95	78-121%	---	---	
Trichloroethene (TCE)	7950	89.6	179	ug/kg dry	200	7170	ND	111	77-123%	---	---	
Trichlorofluoromethane	7670	717	717	ug/kg dry	200	7170	ND	107	62-140%	---	---	Q-54d
1,2,3-Trichloropropane	7320	179	359	ug/kg dry	200	7170	ND	99	73-125%	---	---	
1,2,4-Trimethylbenzene	9290	179	359	ug/kg dry	200	7170	2320	97	75-123%	---	---	
1,3,5-Trimethylbenzene	13200	179	359	ug/kg dry	200	7170	6310	97	73-124%	---	---	
Vinyl chloride	8110	89.6	179	ug/kg dry	200	7170	ND	113	56-135%	---	---	
m,p-Xylene	16100	179	359	ug/kg dry	200	14300	2140	97	77-124%	---	---	
o-Xylene	6920	89.6	179	ug/kg dry	200	7170	ND	97	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>79-120 %</i>		<i>"</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1147 - EPA 1311/5030B TCLP Volatiles						Water						
Blank (22J1147-BLK1)						Prepared: 10/28/22 09:59 Analyzed: 10/28/22 21:37						TCLPa
<u>1311/8260D</u>												
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (22J1147-BS1)						Prepared: 10/28/22 09:59 Analyzed: 10/28/22 20:54						TCLPa
<u>1311/8260D</u>												
Benzene	1260	6.25	12.5	ug/L	50	1000	---	126	80-120%	---	---	Q-56
2-Butanone (MEK)	2430	250	500	ug/L	50	2000	---	122	80-120%	---	---	Q-56
Carbon tetrachloride	1220	25.0	50.0	ug/L	50	1000	---	122	80-120%	---	---	Q-56
Chlorobenzene	1050	12.5	25.0	ug/L	50	1000	---	105	80-120%	---	---	
Chloroform	1140	25.0	50.0	ug/L	50	1000	---	114	80-120%	---	---	
1,4-Dichlorobenzene	1040	12.5	25.0	ug/L	50	1000	---	104	80-120%	---	---	
1,1-Dichloroethene	1310	12.5	25.0	ug/L	50	1000	---	131	80-120%	---	---	Q-56
1,2-Dichloroethane (EDC)	1030	12.5	25.0	ug/L	50	1000	---	103	80-120%	---	---	
Tetrachloroethene (PCE)	1040	12.5	25.0	ug/L	50	1000	---	104	80-120%	---	---	
Trichloroethene (TCE)	1160	12.5	25.0	ug/L	50	1000	---	116	80-120%	---	---	
Vinyl chloride	1250	12.5	25.0	ug/L	50	1000	---	125	80-120%	---	---	Q-56
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22J1147-DUPI)						Prepared: 10/28/22 09:59 Analyzed: 10/28/22 22:19					
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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1147 - EPA 1311/5030B TCLP Volatiles						Water						
Duplicate (22J1147-DUP1)			Prepared: 10/28/22 09:59 Analyzed: 10/28/22 22:19									
QC Source Sample: Non-SDG (A2J0597-01)												
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 112 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike (22J1147-MS1)						Prepared: 10/28/22 09:59 Analyzed: 10/28/22 23:02						
QC Source Sample: BF-101822-145 (A2J0599-01)												
1311/8260D												
Benzene	1190	6.25	12.5	ug/L	50	1000	ND	119	79-120%	---	---	Q-54c
2-Butanone (MEK)	2290	250	500	ug/L	50	2000	ND	114	56-143%	---	---	Q-54a
Carbon tetrachloride	1180	25.0	50.0	ug/L	50	1000	ND	118	72-136%	---	---	Q-54a
Chlorobenzene	1020	12.5	25.0	ug/L	50	1000	ND	102	80-120%	---	---	
Chloroform	1180	25.0	50.0	ug/L	50	1000	92.0	109	79-124%	---	---	
1,4-Dichlorobenzene	1020	12.5	25.0	ug/L	50	1000	ND	102	79-120%	---	---	
1,1-Dichloroethene	1230	12.5	25.0	ug/L	50	1000	ND	123	71-131%	---	---	Q-54
1,2-Dichloroethane (EDC)	999	12.5	25.0	ug/L	50	1000	ND	100	73-128%	---	---	
Tetrachloroethene (PCE)	1040	12.5	25.0	ug/L	50	1000	ND	104	74-129%	---	---	
Trichloroethene (TCE)	1090	12.5	25.0	ug/L	50	1000	ND	109	79-123%	---	---	
Vinyl chloride	1210	12.5	25.0	ug/L	50	1000	ND	121	58-137%	---	---	Q-54b
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1188 - EPA 3546						Solid						
Blank (22J1188-BLK1)			Prepared: 10/31/22 05:43 Analyzed: 10/31/22 15:55									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	1.87	3.75	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	1.87	3.75	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	1.87	3.75	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.50	5.00	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.50	5.00	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.50	5.00	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	1.87	3.75	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	31.2	62.5	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	31.2	62.5	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.50	5.00	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1188 - EPA 3546						Solid						
Blank (22J1188-BLK1)			Prepared: 10/31/22 05:43 Analyzed: 10/31/22 15:55									
2,3,5,6-Tetrachlorophenol	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	18.7	37.5	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	266	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	B
Di-n-octyl phthalate	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.25	2.50	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	25.0	50.0	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	25.0	50.0	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	25.0	50.0	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	157	312	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22J1188 - EPA 3546						Solid							
Blank (22J1188-BLK1)			Prepared: 10/31/22 05:43 Analyzed: 10/31/22 15:55										
Azobenzene (1,2-DPH)	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---		
Bis(2-Ethylhexyl) adipate	ND	31.2	62.5	ug/kg wet	1	---	---	---	---	---	---		
3,3'-Dichlorobenzidine	ND	25.0	50.0	ug/kg wet	1	---	---	---	---	---	---	Q-52	
1,2-Dinitrobenzene	ND	31.2	62.5	ug/kg wet	1	---	---	---	---	---	---		
1,3-Dinitrobenzene	ND	31.2	62.5	ug/kg wet	1	---	---	---	---	---	---		
1,4-Dinitrobenzene	ND	31.2	62.5	ug/kg wet	1	---	---	---	---	---	---		
Pyridine	ND	6.25	12.5	ug/kg wet	1	---	---	---	---	---	---		
1,2-Dichlorobenzene	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---		
1,3-Dichlorobenzene	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---		
1,4-Dichlorobenzene	ND	3.12	6.25	ug/kg wet	1	---	---	---	---	---	---		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>							Q-41
<i>2-Fluorobiphenyl (Surr)</i>		<i>84 %</i>		<i>44-120 %</i>		<i>"</i>							
<i>Phenol-d6 (Surr)</i>		<i>91 %</i>		<i>33-122 %</i>		<i>"</i>							
<i>p-Terphenyl-d14 (Surr)</i>		<i>100 %</i>		<i>54-127 %</i>		<i>"</i>							
<i>2-Fluorophenol (Surr)</i>		<i>86 %</i>		<i>35-120 %</i>		<i>"</i>							
<i>2,4,6-Tribromophenol (Surr)</i>		<i>78 %</i>		<i>39-132 %</i>		<i>"</i>							
LCS (22J1188-BS1)						Prepared: 10/31/22 05:43 Analyzed: 10/31/22 16:31						Q-18	
EPA 8270E													
Acenaphthene	527	5.32	10.7	ug/kg wet	4	533	---	99	40-123%	---	---		
Acenaphthylene	548	5.32	10.7	ug/kg wet	4	533	---	103	32-132%	---	---		
Anthracene	557	5.32	10.7	ug/kg wet	4	533	---	104	47-123%	---	---		
Benz(a)anthracene	542	5.32	10.7	ug/kg wet	4	533	---	102	49-126%	---	---		
Benzo(a)pyrene	582	8.00	16.0	ug/kg wet	4	533	---	109	45-129%	---	---		
Benzo(b)fluoranthene	588	8.00	16.0	ug/kg wet	4	533	---	110	45-132%	---	---		
Benzo(k)fluoranthene	573	8.00	16.0	ug/kg wet	4	533	---	108	47-132%	---	---		
Benzo(g,h,i)perylene	581	5.32	10.7	ug/kg wet	4	533	---	109	43-134%	---	---		
Chrysene	538	5.32	10.7	ug/kg wet	4	533	---	101	50-124%	---	---		
Dibenz(a,h)anthracene	531	5.32	10.7	ug/kg wet	4	533	---	100	45-134%	---	---		
Fluoranthene	573	5.32	10.7	ug/kg wet	4	533	---	107	50-127%	---	---		
Fluorene	542	5.32	10.7	ug/kg wet	4	533	---	102	43-125%	---	---		
Indeno(1,2,3-cd)pyrene	540	5.32	10.7	ug/kg wet	4	533	---	101	45-133%	---	---		
1-Methylnaphthalene	531	10.7	21.3	ug/kg wet	4	533	---	100	40-120%	---	---		
2-Methylnaphthalene	524	10.7	21.3	ug/kg wet	4	533	---	98	38-122%	---	---		

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22J1188 - EPA 3546						Solid							
LCS (22J1188-BS1)			Prepared: 10/31/22 05:43 Analyzed: 10/31/22 16:31										
Naphthalene	517	10.7	21.3	ug/kg wet	4	533	---	97	35-123%	---	---		
Phenanthrene	529	5.32	10.7	ug/kg wet	4	533	---	99	50-121%	---	---		
Pyrene	571	5.32	10.7	ug/kg wet	4	533	---	107	47-127%	---	---		
Dibenzofuran	535	5.32	10.7	ug/kg wet	4	533	---	100	44-120%	---	---		
2-Chlorophenol	525	26.7	53.2	ug/kg wet	4	533	---	98	34-121%	---	---		
4-Chloro-3-methylphenol	521	53.2	107	ug/kg wet	4	533	---	98	45-122%	---	---		
2,4-Dichlorophenol	516	26.7	53.2	ug/kg wet	4	533	---	97	40-122%	---	---		
2,4-Dimethylphenol	565	26.7	53.2	ug/kg wet	4	533	---	106	30-127%	---	---		
2,4-Dinitrophenol	492	133	267	ug/kg wet	4	533	---	92	10-137%	---	---		
4,6-Dinitro-2-methylphenol	564	133	267	ug/kg wet	4	533	---	106	29-132%	---	---		
2-Methylphenol	567	13.3	26.7	ug/kg wet	4	533	---	106	32-122%	---	---		
3+4-Methylphenol(s)	572	13.3	26.7	ug/kg wet	4	533	---	107	34-120%	---	---	Q-41	
2-Nitrophenol	592	53.2	107	ug/kg wet	4	533	---	111	36-123%	---	---	Q-41	
4-Nitrophenol	493	53.2	107	ug/kg wet	4	533	---	93	30-132%	---	---		
Pentachlorophenol (PCP)	510	53.2	107	ug/kg wet	4	533	---	96	25-133%	---	---		
Phenol	540	10.7	21.3	ug/kg wet	4	533	---	101	34-121%	---	---		
2,3,4,6-Tetrachlorophenol	551	26.7	53.2	ug/kg wet	4	533	---	103	44-125%	---	---		
2,3,5,6-Tetrachlorophenol	551	26.7	53.2	ug/kg wet	4	533	---	103	40-120%	---	---		
2,4,5-Trichlorophenol	530	26.7	53.2	ug/kg wet	4	533	---	99	41-124%	---	---		
Nitrobenzene	547	53.2	107	ug/kg wet	4	533	---	103	34-122%	---	---		
2,4,6-Trichlorophenol	522	26.7	53.2	ug/kg wet	4	533	---	98	39-126%	---	---		
Bis(2-ethylhexyl)phthalate	520	80.0	160	ug/kg wet	4	533	---	97	51-133%	---	---		
Butyl benzyl phthalate	536	53.2	107	ug/kg wet	4	533	---	101	48-132%	---	---		
Diethylphthalate	571	53.2	107	ug/kg wet	4	533	---	107	50-124%	---	---		
Dimethylphthalate	547	53.2	107	ug/kg wet	4	533	---	102	48-124%	---	---		
Di-n-butylphthalate	819	53.2	107	ug/kg wet	4	533	---	154	51-128%	---	---	Q-29, B	
Di-n-octyl phthalate	537	53.2	107	ug/kg wet	4	533	---	101	45-140%	---	---		
N-Nitrosodimethylamine	438	13.3	26.7	ug/kg wet	4	533	---	82	23-120%	---	---		
N-Nitroso-di-n-propylamine	554	13.3	26.7	ug/kg wet	4	533	---	104	36-120%	---	---		
N-Nitrosodiphenylamine	560	13.3	26.7	ug/kg wet	4	533	---	105	38-127%	---	---		
Bis(2-Chloroethoxy) methane	536	13.3	26.7	ug/kg wet	4	533	---	101	36-121%	---	---		
Bis(2-Chloroethyl) ether	493	13.3	26.7	ug/kg wet	4	533	---	92	31-120%	---	---		
2,2'-Oxybis(1-Chloropropane)	514	13.3	26.7	ug/kg wet	4	533	---	96	39-120%	---	---		
Hexachlorobenzene	527	5.32	10.7	ug/kg wet	4	533	---	99	45-122%	---	---		

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22J1188 - EPA 3546						Solid							
LCS (22J1188-BS1)						Prepared: 10/31/22 05:43 Analyzed: 10/31/22 16:31						Q-18	
Hexachlorobutadiene	501	13.3	26.7	ug/kg wet	4	533	---	94	32-123%	---	---		
Hexachlorocyclopentadiene	592	26.7	53.2	ug/kg wet	4	533	---	111	10-140%	---	---		
Hexachloroethane	476	13.3	26.7	ug/kg wet	4	533	---	89	28-120%	---	---		
2-Chloronaphthalene	544	5.32	10.7	ug/kg wet	4	533	---	102	41-120%	---	---		
1,2,4-Trichlorobenzene	520	13.3	26.7	ug/kg wet	4	533	---	97	34-120%	---	---		
4-Bromophenyl phenyl ether	541	13.3	26.7	ug/kg wet	4	533	---	101	46-124%	---	---		
4-Chlorophenyl phenyl ether	535	13.3	26.7	ug/kg wet	4	533	---	100	45-121%	---	---		
Aniline	423	26.7	53.2	ug/kg wet	4	533	---	79	10-120%	---	---		
4-Chloroaniline	362	13.3	26.7	ug/kg wet	4	533	---	68	17-120%	---	---		
2-Nitroaniline	533	107	213	ug/kg wet	4	533	---	100	44-127%	---	---		
3-Nitroaniline	555	107	213	ug/kg wet	4	533	---	104	33-120%	---	---	Q-41	
4-Nitroaniline	714	107	213	ug/kg wet	4	533	---	134	51-125%	---	---	Q-29, Q-41	
2,4-Dinitrotoluene	547	53.2	107	ug/kg wet	4	533	---	103	48-126%	---	---		
2,6-Dinitrotoluene	559	53.2	107	ug/kg wet	4	533	---	105	46-124%	---	---		
Benzoic acid	795	668	668	ug/kg wet	4	1070	---	75	10-140%	---	---		
Benzyl alcohol	504	26.7	53.2	ug/kg wet	4	533	---	94	29-122%	---	---		
Isophorone	520	13.3	26.7	ug/kg wet	4	533	---	98	30-122%	---	---		
Azobenzene (1,2-DPH)	542	13.3	26.7	ug/kg wet	4	533	---	102	39-125%	---	---		
Bis(2-Ethylhexyl) adipate	532	133	267	ug/kg wet	4	533	---	100	61-121%	---	---		
3,3'-Dichlorobenzidine	2010	107	213	ug/kg wet	4	1070	---	189	22-121%	---	---	Q-29	
1,2-Dinitrobenzene	540	133	267	ug/kg wet	4	533	---	101	44-120%	---	---		
1,3-Dinitrobenzene	544	133	267	ug/kg wet	4	533	---	102	43-127%	---	---		
1,4-Dinitrobenzene	546	133	267	ug/kg wet	4	533	---	102	37-132%	---	---		
Pyridine	414	26.7	53.2	ug/kg wet	4	533	---	78	10-120%	---	---		
1,2-Dichlorobenzene	496	13.3	26.7	ug/kg wet	4	533	---	93	33-120%	---	---		
1,3-Dichlorobenzene	483	13.3	26.7	ug/kg wet	4	533	---	91	30-120%	---	---		
1,4-Dichlorobenzene	481	13.3	26.7	ug/kg wet	4	533	---	90	31-120%	---	---		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>							Q-41
<i>2-Fluorobiphenyl (Surr)</i>		<i>98 %</i>		<i>44-120 %</i>		<i>"</i>							
<i>Phenol-d6 (Surr)</i>		<i>98 %</i>		<i>33-122 %</i>		<i>"</i>							
<i>p-Terphenyl-d14 (Surr)</i>		<i>101 %</i>		<i>54-127 %</i>		<i>"</i>							
<i>2-Fluorophenol (Surr)</i>		<i>86 %</i>		<i>35-120 %</i>		<i>"</i>							
<i>2,4,6-Tribromophenol (Surr)</i>		<i>96 %</i>		<i>39-132 %</i>		<i>"</i>							

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1188 - EPA 3546						Solid						
LCS (22J1188-BS2)						Prepared: 10/31/22 05:43 Analyzed: 11/01/22 16:58						Q-16
<u>EPA 8270E</u>												
Carbazole	534	8.00	16.0	ug/kg wet	4	533	---	100	50-123%	---	---	
Duplicate (22J1188-DUP1)						Prepared: 10/31/22 05:43 Analyzed: 10/31/22 17:43						
<u>QC Source Sample: Non-SDG (A2J0597-01)</u>												
Acenaphthene	3470	1210	2430	ug/kg dry	200	---	3530	---	---	2	30%	
Acenaphthylene	ND	1210	2430	ug/kg dry	200	---	ND	---	---	---	30%	
Anthracene	10500	1210	2430	ug/kg dry	200	---	11300	---	---	7	30%	
Benz(a)anthracene	8500	1210	2430	ug/kg dry	200	---	8790	---	---	3	30%	
Benzo(a)pyrene	10200	1820	3630	ug/kg dry	200	---	10400	---	---	1	30%	
Benzo(b)fluoranthene	8600	1820	3630	ug/kg dry	200	---	8190	---	---	5	30%	
Benzo(k)fluoranthene	4220	1820	3630	ug/kg dry	200	---	4560	---	---	8	30%	M-05
Benzo(g,h,i)perylene	6640	1210	2430	ug/kg dry	200	---	6610	---	---	0.4	30%	
Chrysene	11600	1210	2430	ug/kg dry	200	---	11600	---	---	0.6	30%	
Dibenz(a,h)anthracene	ND	1210	2430	ug/kg dry	200	---	ND	---	---	---	30%	
Fluoranthene	34600	1210	2430	ug/kg dry	200	---	35100	---	---	1	30%	
Fluorene	3800	1210	2430	ug/kg dry	200	---	4020	---	---	6	30%	
Indeno(1,2,3-cd)pyrene	6550	1210	2430	ug/kg dry	200	---	6350	---	---	3	30%	
1-Methylnaphthalene	ND	2430	4840	ug/kg dry	200	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	2430	4840	ug/kg dry	200	---	ND	---	---	---	30%	
Naphthalene	ND	2430	4840	ug/kg dry	200	---	ND	---	---	---	30%	
Phenanthrene	42800	1210	2430	ug/kg dry	200	---	43500	---	---	2	30%	
Pyrene	39800	1210	2430	ug/kg dry	200	---	39900	---	---	0.2	30%	
Carbazole	ND	1820	3630	ug/kg dry	200	---	ND	---	---	---	30%	
Dibenzofuran	ND	1210	2430	ug/kg dry	200	---	ND	---	---	---	30%	
2-Chlorophenol	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	30300	60600	ug/kg dry	200	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	30300	60600	ug/kg dry	200	---	ND	---	---	---	30%	
2-Methylphenol	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
2-Nitrophenol	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J1188 - EPA 3546						Solid						
Duplicate (22J1188-DUP1)			Prepared: 10/31/22 05:43 Analyzed: 10/31/22 17:43									
QC Source Sample: Non-SDG (A2J0597-01)												
4-Nitrophenol	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	
Phenol	ND	2430	4840	ug/kg dry	200	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%	
Nitrobenzene	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	18200	36300	ug/kg dry	200	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	
Diethylphthalate	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	
Dimethylphthalate	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	1210	2430	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachloroethane	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	1210	2430	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
Aniline	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chloroaniline	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%	
2-Nitroaniline	ND	24300	48400	ug/kg dry	200	---	ND	---	---	---	30%	
3-Nitroaniline	ND	24300	48400	ug/kg dry	200	---	ND	---	---	---	30%	
4-Nitroaniline	ND	24300	48400	ug/kg dry	200	---	ND	---	---	---	30%	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
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QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22J1188 - EPA 3546						Solid							
Duplicate (22J1188-DUP1)			Prepared: 10/31/22 05:43 Analyzed: 10/31/22 17:43										
QC Source Sample: Non-SDG (A2J0597-01)													
2,4-Dinitrotoluene	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%		
2,6-Dinitrotoluene	ND	12100	24300	ug/kg dry	200	---	ND	---	---	---	30%		
Benzoic acid	ND	152000	303000	ug/kg dry	200	---	ND	---	---	---	30%		
Benzyl alcohol	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%		
Isophorone	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%		
Azobenzene (1,2-DPH)	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%		
Bis(2-Ethylhexyl) adipate	ND	30300	60600	ug/kg dry	200	---	ND	---	---	---	30%		
3,3'-Dichlorobenzidine	ND	24300	48400	ug/kg dry	200	---	ND	---	---	---	30%	Q-52	
1,2-Dinitrobenzene	ND	30300	60600	ug/kg dry	200	---	ND	---	---	---	30%		
1,3-Dinitrobenzene	ND	30300	60600	ug/kg dry	200	---	ND	---	---	---	30%		
1,4-Dinitrobenzene	ND	30300	60600	ug/kg dry	200	---	ND	---	---	---	30%		
Pyridine	ND	6060	12100	ug/kg dry	200	---	ND	---	---	---	30%		
1,2-Dichlorobenzene	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%		
1,3-Dichlorobenzene	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	3030	6060	ug/kg dry	200	---	ND	---	---	---	30%		
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 62 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 200x</i>							S-05
<i>2-Fluorobiphenyl (Surr)</i>		<i>77 %</i>		<i>44-120 %</i>		<i>"</i>							S-05
<i>Phenol-d6 (Surr)</i>		<i>36 %</i>		<i>33-122 %</i>		<i>"</i>							S-05
<i>p-Terphenyl-d14 (Surr)</i>		<i>73 %</i>		<i>54-127 %</i>		<i>"</i>							S-05
<i>2-Fluorophenol (Surr)</i>		<i>42 %</i>		<i>35-120 %</i>		<i>"</i>							S-05
<i>2,4,6-Tribromophenol (Surr)</i>		<i>244 %</i>		<i>39-132 %</i>		<i>"</i>							S-05

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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 22J1085 - EPA 3051A						Solid						
Blank (22J1085-BLK2)			Prepared: 10/27/22 07:21 Analyzed: 10/31/22 21:03									
<u>EPA 6020B</u>												
Arsenic	ND	481	962	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	481	962	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	96.2	192	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	481	962	ug/kg wet	10	---	---	---	---	---	---	
Lead	ND	96.2	192	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	38.5	76.9	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	481	962	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	96.2	192	ug/kg wet	10	---	---	---	---	---	---	
<hr/>												
LCS (22J1085-BS1)			Prepared: 10/27/22 07:21 Analyzed: 10/31/22 21:08									
<u>EPA 6020B</u>												
Arsenic	53100	500	1000	ug/kg wet	10	50000	---	106	80-120%	---	---	
Barium	53000	500	1000	ug/kg wet	10	50000	---	106	80-120%	---	---	
Cadmium	50700	100	200	ug/kg wet	10	50000	---	101	80-120%	---	---	
Chromium	50200	500	1000	ug/kg wet	10	50000	---	100	80-120%	---	---	
Lead	50500	100	200	ug/kg wet	10	50000	---	101	80-120%	---	---	
Mercury	961	40.0	80.0	ug/kg wet	10	1000	---	96	80-120%	---	---	
Selenium	22500	500	1000	ug/kg wet	10	25000	---	90	80-120%	---	---	
Silver	26400	100	200	ug/kg wet	10	25000	---	106	80-120%	---	---	
<hr/>												
Duplicate (22J1085-DUP2)			Prepared: 10/27/22 07:21 Analyzed: 10/31/22 21:19									
<u>QC Source Sample: Non-SDG (A2J0588-01)</u>												
Arsenic	ND	13600	27200	ug/kg wet	250	---	ND	---	---	---	20%	
Barium	120000	13600	27200	ug/kg wet	250	---	139000	---	---	14	20%	
Cadmium	ND	2720	5430	ug/kg wet	250	---	ND	---	---	---	20%	
Chromium	1240000	13600	27200	ug/kg wet	250	---	1300000	---	---	4	20%	
Lead	195000	2720	5430	ug/kg wet	250	---	205000	---	---	5	20%	
Mercury	4930	1090	2170	ug/kg wet	250	---	5260	---	---	6	20%	
Selenium	ND	13600	27200	ug/kg wet	250	---	ND	---	---	---	20%	
Silver	20300	2720	5430	ug/kg wet	250	---	21000	---	---	3	20%	
<hr/>												
Matrix Spike (22J1085-MS1)			Prepared: 10/27/22 07:21 Analyzed: 10/31/22 21:24									

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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 22J1085 - EPA 3051A						Solid						
Matrix Spike (22J1085-MS1)						Prepared: 10/27/22 07:21 Analyzed: 10/31/22 21:24						
QC Source Sample: Non-SDG (A2J0588-01)												
EPA 6020B												
Arsenic	70100	13300	26600	ug/kg wet	250	53200	ND	132	75-125%	---	---	Q-11
Barium	172000	13300	26600	ug/kg wet	250	53200	139000	63	75-125%	---	---	Q-11
Cadmium	56600	2660	5320	ug/kg wet	250	53200	ND	106	75-125%	---	---	
Chromium	1350000	13300	26600	ug/kg wet	250	53200	1300000	111	75-125%	---	---	
Lead	219000	2660	5320	ug/kg wet	250	53200	205000	27	75-125%	---	---	Q-65
Mercury	5010	1060	2130	ug/kg wet	250	1060	5260	-23	75-125%	---	---	Q-65
Selenium	27500	13300	26600	ug/kg wet	250	26600	ND	104	75-125%	---	---	
Silver	44300	2660	5320	ug/kg wet	250	26600	21000	88	75-125%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP 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 22J1016 - EPA 1311/3015A						Solid						
Blank (22J1016-BLK1)			Prepared: 10/26/22 08:11 Analyzed: 10/26/22 19:29									
<u>1311/6020B</u>												
Arsenic	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Barium	ND	2500	5000	ug/L	10	---	---	---	---	---	---	TCLP
Cadmium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Chromium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Lead	ND	25.0	50.0	ug/L	10	---	---	---	---	---	---	TCLP
Mercury	ND	3.75	7.00	ug/L	10	---	---	---	---	---	---	TCLP
Selenium	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
Silver	ND	50.0	100	ug/L	10	---	---	---	---	---	---	TCLP
<hr/>												
LCS (22J1016-BS1)			Prepared: 10/26/22 08:11 Analyzed: 10/26/22 19:35									
<u>1311/6020B</u>												
Arsenic	4970	50.0	100	ug/L	10	5000	---	99	80-120%	---	---	TCLP
Barium	9860	2500	5000	ug/L	10	10000	---	99	80-120%	---	---	TCLP
Cadmium	977	50.0	100	ug/L	10	1000	---	98	80-120%	---	---	TCLP
Chromium	4710	50.0	100	ug/L	10	5000	---	94	80-120%	---	---	TCLP
Lead	4590	25.0	50.0	ug/L	10	5000	---	92	80-120%	---	---	TCLP
Mercury	90.7	3.75	7.00	ug/L	10	100	---	91	80-120%	---	---	TCLP
Selenium	990	50.0	100	ug/L	10	1000	---	99	80-120%	---	---	TCLP
Silver	996	50.0	100	ug/L	10	1000	---	100	80-120%	---	---	TCLP
<hr/>												
Duplicate (22J1016-DUP1)			Prepared: 10/26/22 08:11 Analyzed: 10/26/22 20:30									
<u>QC Source Sample: Non-SDG (A2J0639-01)</u>												
Arsenic	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Barium	ND	2500	5000	ug/L	10	---	ND	---	---	---	20%	
Cadmium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Chromium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Lead	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	20%	
Mercury	ND	3.75	7.00	ug/L	10	---	ND	---	---	---	20%	
Selenium	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
Silver	ND	50.0	100	ug/L	10	---	ND	---	---	---	20%	
<hr/>												
Matrix Spike (22J1016-MS1)			Prepared: 10/26/22 08:11 Analyzed: 10/26/22 20:36									

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP 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 22J1016 - EPA 1311/3015A						Solid						
Matrix Spike (22J1016-MS1)			Prepared: 10/26/22 08:11 Analyzed: 10/26/22 20:36									
QC Source Sample: Non-SDG (A2J0639-01)												
1311/6020B												
Arsenic	4990	50.0	100	ug/L	10	5000	ND	100	50-150%	---	---	
Barium	10600	2500	5000	ug/L	10	10000	ND	106	50-150%	---	---	
Cadmium	990	50.0	100	ug/L	10	1000	ND	99	50-150%	---	---	
Chromium	4770	50.0	100	ug/L	10	5000	ND	95	50-150%	---	---	
Lead	4520	25.0	50.0	ug/L	10	5000	ND	90	50-150%	---	---	
Mercury	89.7	3.75	7.00	ug/L	10	100	ND	90	50-150%	---	---	
Selenium	980	50.0	100	ug/L	10	1000	ND	98	50-150%	---	---	
Silver	1000	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	
Matrix Spike (22J1016-MS2)			Prepared: 10/26/22 08:11 Analyzed: 10/26/22 20:02									
QC Source Sample: Non-SDG (A2J0588-01)												
1311/6020B												
Arsenic	5110	50.0	100	ug/L	10	5000	113	100	50-150%	---	---	
Barium	9950	2500	5000	ug/L	10	10000	ND	100	50-150%	---	---	
Cadmium	1020	50.0	100	ug/L	10	1000	ND	102	50-150%	---	---	
Lead	5060	25.0	50.0	ug/L	10	5000	514	91	50-150%	---	---	
Mercury	90.6	3.75	7.00	ug/L	10	100	ND	91	50-150%	---	---	
Selenium	984	50.0	100	ug/L	10	1000	ND	98	50-150%	---	---	
Silver	1000	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	
Matrix Spike (22J1016-MS3)			Prepared: 10/26/22 08:11 Analyzed: 10/26/22 20:13									
QC Source Sample: BF-101822-145 (A2J0599-01)												
1311/6020B												
Arsenic	5020	50.0	100	ug/L	10	5000	ND	100	50-150%	---	---	
Barium	10200	2500	5000	ug/L	10	10000	ND	102	50-150%	---	---	
Cadmium	981	50.0	100	ug/L	10	1000	ND	98	50-150%	---	---	
Chromium	4760	50.0	100	ug/L	10	5000	ND	95	50-150%	---	---	
Lead	4530	25.0	50.0	ug/L	10	5000	ND	91	50-150%	---	---	
Mercury	89.6	3.75	7.00	ug/L	10	100	ND	90	50-150%	---	---	
Selenium	988	50.0	100	ug/L	10	1000	ND	99	50-150%	---	---	
Silver	1000	50.0	100	ug/L	10	1000	ND	100	50-150%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP 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 22J1016 - EPA 1311/3015A						Solid						
Matrix Spike (22J1016-MS4)			Prepared: 10/26/22 08:11 Analyzed: 10/27/22 03:53									
<u>QC Source Sample: Non-SDG (A2J0679-01)</u>												
<u>1311/6020B</u>												
Arsenic	4890	50.0	100	ug/L	10	5000	ND	98	50-150%	---	---	
Barium	10300	2500	5000	ug/L	10	10000	ND	103	50-150%	---	---	
Cadmium	988	50.0	100	ug/L	10	1000	ND	99	50-150%	---	---	
Chromium	4640	50.0	100	ug/L	10	5000	ND	93	50-150%	---	---	
Selenium	1020	50.0	100	ug/L	10	1000	ND	102	50-150%	---	---	
Silver	1010	50.0	100	ug/L	10	1000	ND	101	50-150%	---	---	Q-41
Matrix Spike (22J1016-MS5)			Prepared: 10/26/22 08:11 Analyzed: 10/27/22 04:04									
<u>QC Source Sample: Non-SDG (A2J0695-01)</u>												
<u>1311/6020B</u>												
Arsenic	4930	50.0	100	ug/L	10	5000	ND	99	50-150%	---	---	
Barium	10500	2500	5000	ug/L	10	10000	ND	105	50-150%	---	---	
Cadmium	1030	50.0	100	ug/L	10	1000	ND	103	50-150%	---	---	
Chromium	4760	50.0	100	ug/L	10	5000	55.7	94	50-150%	---	---	
Selenium	1020	50.0	100	ug/L	10	1000	ND	102	50-150%	---	---	
Silver	1030	50.0	100	ug/L	10	1000	ND	103	50-150%	---	---	Q-41
Matrix Spike (22J1016-MS6)			Prepared: 10/26/22 08:11 Analyzed: 10/28/22 09:30									
<u>QC Source Sample: Non-SDG (A2J0588-01RE1)</u>												
<u>1311/6020B</u>												
Chromium	66700	250	500	ug/L	50	5000	63400	66	50-150%	---	---	Q-16
Matrix Spike (22J1016-MS7)			Prepared: 10/26/22 08:11 Analyzed: 10/28/22 09:35									
<u>QC Source Sample: Non-SDG (A2J0679-01)</u>												
<u>1311/6020B</u>												
Mercury	95.1	3.75	7.00	ug/L	10	100	ND	95	50-150%	---	---	
Matrix Spike (22J1016-MS8)			Prepared: 10/26/22 08:11 Analyzed: 10/28/22 09:55									
<u>QC Source Sample: Non-SDG (A2J0695-01RE1)</u>												
<u>1311/6020B</u>												
Mercury	92.5	3.75	7.00	ug/L	10	100	ND	92	50-150%	---	---	TEMP

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP 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 22J1016 - EPA 1311/3015A						Solid						
Matrix Spike (22J1016-MS9)						Prepared: 10/26/22 08:11 Analyzed: 10/28/22 17:56						
QC Source Sample: Non-SDG (A2J0679-01)												
1311/6020B												
Lead	4990	25.0	50.0	ug/L	10	5000	ND	100	50-150%	---	---	Q-16
Mercury	96.6	3.75	7.00	ug/L	10	100	ND	97	50-150%	---	---	
Matrix Spike (22J1016-MSA)						Prepared: 10/26/22 08:11 Analyzed: 10/28/22 18:05						
QC Source Sample: Non-SDG (A2J0695-01RE2)												
1311/6020B												
Lead	5290	25.0	50.0	ug/L	10	5000	ND	106	50-150%	---	---	Q-16

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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 -- Filter Bags Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2J0599 - 12 02 22 1304
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Soluble 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 22J1021 - ASTM D7511-12mod (S)						Soil						
Blank (22J1021-BLK1)						Prepared: 10/26/22 09:54 Analyzed: 10/26/22 12:39						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (22J1021-BS1)						Prepared: 10/26/22 09:54 Analyzed: 10/26/22 12:41						
<u>D7511-12</u>												
Total Cyanide	409	50.0	100	ug/kg wet	1	400	---	102	84-116%	---	---	
Matrix Spike (22J1021-MS2)						Prepared: 10/26/22 09:54 Analyzed: 10/26/22 13:43						
<u>QC Source Sample: Non-SDG (A2J0597-01RE1)</u>												
<u>D7511-12</u>												
Total Cyanide	6750	969	1940	ug/kg dry	5	1550	6650	6	64-136%	---	---	Q-01, Q-16
Matrix Spike Dup (22J1021-MSD2)						Prepared: 10/26/22 09:54 Analyzed: 10/26/22 13:45						
<u>QC Source Sample: Non-SDG (A2J0597-01RE1)</u>												
Total Cyanide	8000	967	1930	ug/kg dry	5	1550	6650	87	64-136%	17	47%	Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0822 - Total Solids (Dry Weight)						Soil						
Duplicate (22J0822-DUP1)			Prepared: 10/20/22 12:54 Analyzed: 10/21/22 05:56									
<u>QC Source Sample: Non-SDG (A2J0590-01)</u>												
% Solids	82.1	1.00	1.00	%	1	---	81.4	---	---	0.9	10%	
Duplicate (22J0822-DUP2)			Prepared: 10/20/22 12:54 Analyzed: 10/21/22 05:56									
<u>QC Source Sample: Non-SDG (A2J0590-02)</u>												
% Solids	70.2	1.00	1.00	%	1	---	70.3	---	---	0.1	10%	
Duplicate (22J0822-DUP3)			Prepared: 10/20/22 12:54 Analyzed: 10/21/22 05:56									
<u>QC Source Sample: Non-SDG (A2J0597-01)</u>												
% Solids	24.9	1.00	1.00	%	1	---	25.5	---	---	3	10%	
Duplicate (22J0822-DUP4)			Prepared: 10/20/22 12:54 Analyzed: 10/21/22 05:56									
<u>QC Source Sample: Non-SDG (A2J0598-01)</u>												
% Solids	82.3	1.00	1.00	%	1	---	83.3	---	---	1	10%	
Duplicate (22J0822-DUP5)			Prepared: 10/20/22 12:54 Analyzed: 10/21/22 05:56									
<u>QC Source Sample: Non-SDG (A2J0598-02)</u>												
% Solids	93.0	1.00	1.00	%	1	---	93.2	---	---	0.3	10%	
Duplicate (22J0822-DUP6)			Prepared: 10/20/22 19:17 Analyzed: 10/21/22 05:56									
<u>QC Source Sample: Non-SDG (A2J0658-01)</u>												
% Solids	89.8	1.00	1.00	%	1	---	89.2	---	---	0.7	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J0894</u>							
A2J0599-01	Solid	NWTPH-Dx	10/18/22 16:00	10/24/22 06:59	10.11g/5mL	10g/5mL	0.99

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J0853</u>							
A2J0599-01RE1	Solid	NWTPH-Gx (MS)	10/18/22 16:00	10/19/22 14:32	5.87g/5mL	5g/5mL	0.85

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J0853</u>							
A2J0599-01RE1	Solid	5035A/8260D	10/18/22 16:00	10/19/22 14:32	5.87g/5mL	5g/5mL	0.85

Regulated TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030B TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J1147</u>							
A2J0599-01	Solid	1311/8260D	10/18/22 16:00	10/28/22 09:59	5mL/5mL	5mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J1188</u>							
A2J0599-01	Solid	EPA 8270E	10/18/22 16:00	10/31/22 05:43	10.24g/2mL	15g/2mL	1.46
A2J0599-01RE1	Solid	EPA 8270E	10/18/22 16:00	10/31/22 05:43	10.24g/2mL	15g/2mL	1.46

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22J1085</u>							

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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A2J0599-01	Solid	EPA 6020B	10/18/22 16:00	10/27/22 07:21	0.481g/50mL	0.5g/50mL	1.04

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22J1016							
A2J0599-01	Solid	1311/6020B	10/18/22 16:00	10/26/22 08:11	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22J1021							
A2J0599-01	Solid	D7511-12	10/18/22 16:00	10/26/22 09:54	2.583g/50mL	2.5g/50mL	0.97

Percent Dry Weight

Prep: Total Solids (Dry Weight)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22J0822							
A2J0599-01	Solid	EPA 8000D	10/18/22 16:00	10/20/22 12:54			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22J0915							
A2J0599-01	Solid	EPA 1311	10/18/22 16:00	10/24/22 17:13	100g/2000g	100g/2000g	NA

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22J1097							
A2J0599-01	Solid	EPA 1311 ZHE	10/18/22 16:00	10/26/22 16:50	20g/400.3g	25g/500g	NA

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QUALIFIER DEFINITIONS

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

Apex Laboratories

- B** Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
- 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.
- F-19** Results are Estimated due to the presence of multiple fuel products.
- ICV-01** Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-11** Spike recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-18** Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-52** Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +11%. The results are reported as Estimated Values.
- Q-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 +5%. 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 +6%. 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 -1%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- Q-65** Spike recovery is estimated due to the high analyte concentration of the source sample.

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- 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.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 22J0915.
- TCLPa** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 22J1097.
- TEMP** Sample was received outside of recommended temperature. See Case Narrative.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.
- V-16** Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved within 48 hours of sampling.

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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 -- Filter Bags), and Report ID (A2J0599 - 12 02 22 1304).

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.

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.

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.

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Handwritten signature of Darwin Thomas

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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

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
--------	----------	--------	---------	--------	---------------

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

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Sevenson Environmental Services, Inc. Project: Gasco -- Filter Bags
 2749 Lockport Road Project Number: 111323
 Niagara Falls, NY 14305 Project Manager: Chip Byrd Report ID: A2J0599 - 12 02 22 1304

CHAIN OF CUSTODY

Company: Sevenson Environmental Services, Inc. Project Mgr.: Chip Byrd Project Name: Gasco -- Bag Filter Project # 111323
 Address: 2749 Lockport Road, Niagara Falls, NY 14305 Phone: (716) 583-2754 Fax: E-mail: wbyrd@sevenson.com
 Lab # A2J0599 COC ___ of ___

Sampled by: Emily Schiecht, Jeffrey Lubinski

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST								
						1311/8260 TCPL VOCs	8260 VOCs	9270D LL Full List	Dry Weight	Metals, RCRA 8	Metals, TCL	Total Cyanide	NWTPH-DX	NWTPH-GX
BF-101822-145		10/19/07	1600	S	1	X	X	X	X	X	X	X	X	X

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

TAT Requested (circle) 5 DAY Other: _____

SPECIAL INSTRUCTIONS:

RELIQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: <u>Emily Schiecht</u>	Signature: <u>EW</u>	Signature: _____	Signature: _____
Printed Name: <u>EMILY SCHIECHT</u>	Printed Name: <u>EW</u>	Printed Name: _____	Printed Name: _____
Date: <u>10-19-07</u>	Date: <u>10/16/07</u>	Date: _____	Date: _____
Time: <u>1019</u>	Time: <u>1019</u>	Time: _____	Time: _____
Company: <u>SES</u>	Company: <u>APEX LABS</u>	Company: _____	Company: _____

2/19/14 BC

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APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, Inc. Element WO#: A2 J0599

Project/Project #: Gasco - Bay Filter 111323

Delivery Info:
 Date/time received: 10/19/22 @ 1019 By: EST

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

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

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

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.0</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Gel</u>						
Condition (In/Out):	<u>In good</u>						

Cooler out of temp? (Y/N) Possible reason why: None

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 10/19/22 @ 1400 By: ACE

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: _____

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

Comments: _____

Additional information: _____

Labeled by: ACE Witness: DSS Cooler Inspected by: ACE

Form Y-003 R-00

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