



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Thursday, August 25, 2022

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

RE: A2G0558 - Gasco -- Filtercake - 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 A2G0558, which was received by the laboratory on 7/20/2022 at 12:10:00PM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	3.9 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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FC-071922-1952	A2G0558-01	Solid	07/19/22 04:15	07/20/22 12:10

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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
FC-071922-1952 (A2G0558-01)				Matrix: Solid		Batch: 22G0729		
Diesel	19400000	1730000	3460000	ug/kg dry	40	07/23/22 00:48	NWTPH-Dx	F-13
Oil	ND	3460000	6920000	ug/kg dry	40	07/23/22 00:48	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: %</i>	<i>Limits: 50-150 %</i>	40	07/23/22 00:48	NWTPH-Dx	S-01

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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
FC-071922-1952 (A2G0558-01RE1)				Matrix: Solid		Batch: 22G0857		V-15
Gasoline Range Organics	245000	20600	41300	ug/kg dry	50	07/27/22 02:42	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 104 %</i>		<i>Limits: 50-150 %</i>		1	07/27/22 02:42	NWTPH-Gx (MS)
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>		<i>50-150 %</i>		1	07/27/22 02:42	NWTPH-Gx (MS)

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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
FC-071922-1952 (A2G0558-01RE1)				Matrix: Solid		Batch: 22G0857		V-15
Acetone	ND	8250	8250	ug/kg dry	50	07/27/22 02:42	5035A/8260D	ICV-02
Acrylonitrile	ND	413	825	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Benzene	128	41.3	82.5	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Bromobenzene	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Bromochloromethane	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Bromodichloromethane	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Bromoform	ND	825	825	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Bromomethane	ND	4130	4130	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
2-Butanone (MEK)	ND	4130	4130	ug/kg dry	50	07/27/22 02:42	5035A/8260D	ICV-02
n-Butylbenzene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
sec-Butylbenzene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
tert-Butylbenzene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Carbon disulfide	ND	2060	4130	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Carbon tetrachloride	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Chlorobenzene	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Chloroethane	ND	2060	4130	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Chloroform	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Chloromethane	ND	2060	2060	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
2-Chlorotoluene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
4-Chlorotoluene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Dibromochloromethane	ND	413	825	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	2060	2060	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Dibromomethane	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,2-Dichlorobenzene	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,3-Dichlorobenzene	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,4-Dichlorobenzene	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Dichlorodifluoromethane	ND	413	825	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,1-Dichloroethane	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,1-Dichloroethene	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
cis-1,2-Dichloroethene	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
trans-1,2-Dichloroethene	ND	103	206	ug/kg dry	50	07/27/22 02:42	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
FC-071922-1952 (A2G0558-01RE1)				Matrix: Solid		Batch: 22G0857		V-15
1,2-Dichloropropane	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,3-Dichloropropane	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
2,2-Dichloropropane	ND	413	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	Q-30
1,1-Dichloropropene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
cis-1,3-Dichloropropene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
trans-1,3-Dichloropropene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Ethylbenzene	569	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Hexachlorobutadiene	ND	413	825	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
2-Hexanone	ND	4130	4130	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Isopropylbenzene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
4-Isopropyltoluene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Methylene chloride	ND	2060	4130	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	2060	4130	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Naphthalene	23100	413	825	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
n-Propylbenzene	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Styrene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,1,1,2,2-Tetrachloroethane	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Tetrachloroethene (PCE)	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Toluene	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,2,3-Trichlorobenzene	ND	1030	2060	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,2,4-Trichlorobenzene	ND	1030	2060	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,1,1-Trichloroethane	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,1,2-Trichloroethane	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Trichloroethene (TCE)	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
Trichlorofluoromethane	ND	413	825	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,2,3-Trichloropropane	ND	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,2,4-Trimethylbenzene	1110	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
1,3,5-Trimethylbenzene	380	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	J
Vinyl chloride	ND	103	206	ug/kg dry	50	07/27/22 02:42	5035A/8260D	
m,p-Xylene	342	206	413	ug/kg dry	50	07/27/22 02:42	5035A/8260D	J
o-Xylene	309	103	206	ug/kg dry	50	07/27/22 02:42	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
FC-071922-1952 (A2G0558-01RE1)				Matrix: Solid		Batch: 22G0857		V-15
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/27/22 02:42</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/27/22 02:42</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>79-120 %</i>	<i>1</i>	<i>07/27/22 02:42</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
FC-071922-1952 (A2G0558-01)				Matrix: Solid		Batch: 22G0954		TCLP
Benzene	ND	6.25	12.5	ug/L	50	07/28/22 15:30	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	07/28/22 15:30	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	07/28/22 15:30	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	07/28/22 15:30	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	07/28/22 15:30	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	07/28/22 15:30	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	07/28/22 15:30	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	07/28/22 15:30	1311/8260D	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	07/28/22 15:30	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	07/28/22 15:30	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	07/28/22 15:30	1311/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/28/22 15:30</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/28/22 15:30</i>	<i>1311/8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/28/22 15:30</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
FC-071922-1952 (A2G0558-01)				Matrix: Solid		Batch: 22H0028		
Acenaphthene	146000	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Acenaphthylene	ND	12500	12500	ug/kg dry	200	08/01/22 18:31	EPA 8270E	R-02
Anthracene	111000	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Benz(a)anthracene	61300	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Benzo(a)pyrene	69400	2500	4990	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Benzo(b)fluoranthene	55300	2500	4990	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Benzo(k)fluoranthene	16800	2500	4990	ug/kg dry	200	08/01/22 18:31	EPA 8270E	M-05
Benzo(g,h,i)perylene	44200	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Chrysene	79100	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Dibenz(a,h)anthracene	4450	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Fluoranthene	274000	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Fluorene	93000	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Indeno(1,2,3-cd)pyrene	37900	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
1-Methylnaphthalene	52400	3330	6650	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2-Methylnaphthalene	59200	3330	6650	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Naphthalene	7360	3330	6650	ug/kg dry	200	08/01/22 18:31	EPA 8270E	Q-42
Phenanthrene	540000	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Pyrene	326000	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Carbazole	4340	2500	4990	ug/kg dry	200	08/01/22 18:31	EPA 8270E	J, Q-37
Dibenzofuran	11200	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2-Chlorophenol	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
4-Chloro-3-methylphenol	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2,4-Dichlorophenol	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2,4-Dimethylphenol	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2,4-Dinitrophenol	ND	41500	83200	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	41500	83200	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2-Methylphenol	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
3+4-Methylphenol(s)	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2-Nitrophenol	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
4-Nitrophenol	ND	33300	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Pentachlorophenol (PCP)	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Phenol	ND	3330	6650	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	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
FC-071922-1952 (A2G0558-01)				Matrix: Solid		Batch: 22H0028		
2,3,5,6-Tetrachlorophenol	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2,4,5-Trichlorophenol	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Nitrobenzene	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2,4,6-Trichlorophenol	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	25000	49900	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Butyl benzyl phthalate	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Diethylphthalate	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Dimethylphthalate	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Di-n-butylphthalate	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Di-n-octyl phthalate	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
N-Nitrosodimethylamine	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
N-Nitrosodiphenylamine	ND	13100	13100	ug/kg dry	200	08/01/22 18:31	EPA 8270E	R-02
Bis(2-Chloroethoxy) methane	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Hexachlorobenzene	ND	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Hexachlorobutadiene	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Hexachlorocyclopentadiene	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Hexachloroethane	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2-Chloronaphthalene	ND	1660	3330	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
1,2,4-Trichlorobenzene	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
4-Bromophenyl phenyl ether	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Aniline	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
4-Chloroaniline	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2-Nitroaniline	ND	33300	66500	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
3-Nitroaniline	ND	33300	66500	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
4-Nitroaniline	ND	33300	66500	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2,4-Dinitrotoluene	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
2,6-Dinitrotoluene	ND	16600	33300	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Benzoic acid	ND	208000	415000	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Benzyl alcohol	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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
FC-071922-1952 (A2G0558-01)				Matrix: Solid		Batch: 22H0028		
Isophorone	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Azobenzene (1,2-DPH)	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	41500	83200	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
3,3'-Dichlorobenzidine	ND	33300	66500	ug/kg dry	200	08/01/22 18:31	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	41500	83200	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
1,3-Dinitrobenzene	ND	41500	83200	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
1,4-Dinitrobenzene	ND	41500	83200	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
Pyridine	ND	8320	16600	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
1,2-Dichlorobenzene	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
1,3-Dichlorobenzene	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
1,4-Dichlorobenzene	ND	4150	8320	ug/kg dry	200	08/01/22 18:31	EPA 8270E	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 77 %</i>	<i>Limits: 37-122 %</i>	200	08/01/22 18:31	EPA 8270E	S-05
<i>2-Fluorobiphenyl (Surr)</i>			<i>94 %</i>	<i>44-120 %</i>	200	08/01/22 18:31	EPA 8270E	S-05
<i>Phenol-d6 (Surr)</i>			<i>95 %</i>	<i>33-122 %</i>	200	08/01/22 18:31	EPA 8270E	S-05
<i>p-Terphenyl-d14 (Surr)</i>			<i>97 %</i>	<i>54-127 %</i>	200	08/01/22 18:31	EPA 8270E	S-05
<i>2-Fluorophenol (Surr)</i>			<i>59 %</i>	<i>35-120 %</i>	200	08/01/22 18:31	EPA 8270E	S-05
<i>2,4,6-Tribromophenol (Surr)</i>			<i>33 %</i>	<i>39-132 %</i>	200	08/01/22 18:31	EPA 8270E	S-05

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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
FC-071922-1952 (A2G0558-01)				Matrix: Solid				
Batch: 22G0896								
Arsenic	8540	2340	4690	ug/kg dry	10	07/27/22 15:25	EPA 6020B	
Barium	179000	2340	4690	ug/kg dry	10	07/27/22 15:25	EPA 6020B	
Cadmium	ND	469	937	ug/kg dry	10	07/27/22 15:25	EPA 6020B	
Chromium	ND	2340	4690	ug/kg dry	10	07/27/22 15:25	EPA 6020B	
Lead	ND	469	937	ug/kg dry	10	07/27/22 15:25	EPA 6020B	
Mercury	ND	187	375	ug/kg dry	10	07/27/22 15:25	EPA 6020B	
Selenium	ND	2340	4690	ug/kg dry	10	07/27/22 15:25	EPA 6020B	
Silver	ND	469	937	ug/kg dry	10	07/27/22 15:25	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
FC-071922-1952 (A2G0558-01)				Matrix: Solid				
Batch: 22H0098								
Arsenic	ND	---	0.100	mg/L	10	08/02/22 22:34	1311/6020B	
Barium	ND	---	5.00	mg/L	10	08/02/22 22:34	1311/6020B	
Cadmium	ND	---	0.100	mg/L	10	08/02/22 22:34	1311/6020B	
Chromium	ND	---	0.100	mg/L	10	08/02/22 22:34	1311/6020B	
Lead	ND	---	0.0500	mg/L	10	08/02/22 22:34	1311/6020B	
Mercury	ND	---	0.00700	mg/L	10	08/02/22 22:34	1311/6020B	
Selenium	ND	---	0.100	mg/L	10	08/02/22 22:34	1311/6020B	
Silver	ND	---	0.100	mg/L	10	08/02/22 22:34	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
FC-071922-1952 (A2G0558-01)				Matrix: Solid		Batch: 22G0718		
Total Cyanide	5420	429	858	ug/kg dry	2	07/22/22 12:33	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
FC-071922-1952 (A2G0558-01)				Matrix: Solid		Batch: 22G0677		
% Solids	22.6	---	1.00	%	1	07/22/22 07:21	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
FC-071922-1952 (A2G0558-01)				Matrix: Solid		Batch: 22H0052		
TCLP Extraction	PREP	---		N/A	1	08/01/22 17:09	EPA 1311	

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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 22G0729 - EPA 3546 (Fuels)						Solid						
Blank (22G0729-BLK1)			Prepared: 07/22/22 10:00 Analyzed: 07/22/22 23:06									
<u>NWTPH-Dx</u>												
Diesel	ND	9090	18200	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	18200	36400	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (22G0729-BS1)			Prepared: 07/22/22 10:00 Analyzed: 07/22/22 23:26									
<u>NWTPH-Dx</u>												
Diesel	114000	10000	20000	ug/kg wet	1	125000	---	91	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (22G0729-DUP1)			Prepared: 07/22/22 10:00 Analyzed: 07/23/22 00:07									
<u>QC Source Sample: Non-SDG (A2G0306-01)</u>												
Diesel	5760000	386000	773000	ug/kg wet	40	---	8230000	---	---	35	30%	Q-17
Oil	3690000	773000	1550000	ug/kg wet	40	---	3910000	---	---	6	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 40x</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 22G0745 - EPA 5035A						Soil						
Blank (22G0745-BLK1)			Prepared: 07/22/22 08:00 Analyzed: 07/22/22 15:22									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	1670	3330	ug/kg wet	50	---	---	---	---	---	---	
<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>98 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (22G0745-BS2)						Prepared: 07/22/22 08:00 Analyzed: 07/22/22 14:55						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	25800	2500	5000	ug/kg wet	50	25000	---	103	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>99 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (22G0745-DUP1)						Prepared: 07/21/22 19:02 Analyzed: 07/22/22 20:19						
<u>QC Source Sample: Non-SDG (A2G0571-01)</u>												
Gasoline Range Organics	6190000	969000	1940000	ug/kg wet	5000	---	6650000	---	---	7	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>99 %</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 22G0857 - EPA 5035A						Soil						
Blank (22G0857-BLK1)			Prepared: 07/26/22 08:38 Analyzed: 07/27/22 00:54									
<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>101 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (22G0857-BS2)						Prepared: 07/26/22 08:38 Analyzed: 07/27/22 00:27						AMEND, X
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	24400	2500	5000	ug/kg wet	50	25000	---	97	80-120%	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 101 %</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 (22G0857-DUP1)						Prepared: 07/23/22 14:58 Analyzed: 07/27/22 04:03						
<u>QC Source Sample: Non-SDG (A2G0691-02)</u>												
Gasoline Range Organics	ND	2650	5290	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 102 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</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 22G0745 - EPA 5035A						Soil						
Blank (22G0745-BLK1)			Prepared: 07/22/22 08:00 Analyzed: 07/22/22 15:22									
<u>5035A/8260D</u>												
Acetone	ND	333	667	ug/kg wet	50	---	---	---	---	---	---	ICV-02
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	333	333	ug/kg wet	50	---	---	---	---	---	---	ICV-02
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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22G0745 - EPA 5035A						Soil						
Blank (22G0745-BLK1)			Prepared: 07/22/22 08:00 Analyzed: 07/22/22 15:22									
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: 100 % Limits: 80-120 % Dilution: 1x

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22G0745 - EPA 5035A						Soil						
Blank (22G0745-BLK1)						Prepared: 07/22/22 08:00 Analyzed: 07/22/22 15:22						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (22G0745-BS1)						Prepared: 07/22/22 08:00 Analyzed: 07/22/22 14:29						
5035A/8260D												
Acetone	1360	500	1000	ug/kg wet	50	2000	---	68	80-120%	---	---	ICV-02, Q-55
Acrylonitrile	852	50.0	100	ug/kg wet	50	1000	---	85	80-120%	---	---	
Benzene	1000	5.00	10.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromobenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromochloromethane	931	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Bromodichloromethane	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Bromoform	848	50.0	100	ug/kg wet	50	1000	---	85	80-120%	---	---	
Bromomethane	1300	500	500	ug/kg wet	50	1000	---	130	80-120%	---	---	ICV-01, Q-56
2-Butanone (MEK)	1400	250	500	ug/kg wet	50	2000	---	70	80-120%	---	---	ICV-02, Q-55
n-Butylbenzene	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
sec-Butylbenzene	1130	25.0	50.0	ug/kg wet	50	1000	---	113	80-120%	---	---	
tert-Butylbenzene	1050	25.0	50.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Carbon disulfide	844	250	500	ug/kg wet	50	1000	---	84	80-120%	---	---	
Carbon tetrachloride	1150	25.0	50.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
Chlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloroethane	1220	250	500	ug/kg wet	50	1000	---	122	80-120%	---	---	Q-56
Chloroform	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Chloromethane	874	125	250	ug/kg wet	50	1000	---	87	80-120%	---	---	
2-Chlorotoluene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
4-Chlorotoluene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Dibromochloromethane	922	50.0	100	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,2-Dibromo-3-chloropropane	838	125	250	ug/kg wet	50	1000	---	84	80-120%	---	---	
1,2-Dibromoethane (EDB)	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Dibromomethane	972	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2-Dichlorobenzene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,3-Dichlorobenzene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,4-Dichlorobenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Dichlorodifluoromethane	1270	50.0	100	ug/kg wet	50	1000	---	127	80-120%	---	---	Q-56
1,1-Dichloroethane	970	12.5	25.0	ug/kg wet	50	1000	---	97	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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22G0745 - EPA 5035A						Soil						
LCS (22G0745-BS1)			Prepared: 07/22/22 08:00 Analyzed: 07/22/22 14:29									
1,2-Dichloroethane (EDC)	984	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1-Dichloroethene	1060	12.5	25.0	ug/kg wet	50	1000	---	106	80-120%	---	---	
cis-1,2-Dichloroethene	996	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
trans-1,2-Dichloroethene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,2-Dichloropropane	999	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,3-Dichloropropane	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
2,2-Dichloropropane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,1-Dichloropropene	1120	25.0	50.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
cis-1,3-Dichloropropene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
trans-1,3-Dichloropropene	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
Ethylbenzene	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
Hexachlorobutadiene	1090	50.0	100	ug/kg wet	50	1000	---	109	80-120%	---	---	
2-Hexanone	1590	250	500	ug/kg wet	50	2000	---	80	80-120%	---	---	
Isopropylbenzene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
4-Isopropyltoluene	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
Methylene chloride	1030	250	500	ug/kg wet	50	1000	---	103	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1720	250	500	ug/kg wet	50	2000	---	86	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	970	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Naphthalene	1010	50.0	100	ug/kg wet	50	1000	---	101	80-120%	---	---	
n-Propylbenzene	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Styrene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1150	12.5	25.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
1,1,2,2-Tetrachloroethane	982	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Tetrachloroethene (PCE)	1130	12.5	25.0	ug/kg wet	50	1000	---	113	80-120%	---	---	
Toluene	979	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,2,3-Trichlorobenzene	994	125	250	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2,4-Trichlorobenzene	984	125	250	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,1,1-Trichloroethane	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,1,2-Trichloroethane	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Trichloroethene (TCE)	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Trichlorofluoromethane	1350	50.0	100	ug/kg wet	50	1000	---	135	80-120%	---	---	Q-56
1,2,3-Trichloropropane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,2,4-Trimethylbenzene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,3,5-Trimethylbenzene	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	

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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.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2G0558 - 08 25 22 0848

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 22G0745 - EPA 5035A						Soil						
LCS (22G0745-BS1)						Prepared: 07/22/22 08:00 Analyzed: 07/22/22 14:29						
Vinyl chloride	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
m,p-Xylene	2060	25.0	50.0	ug/kg wet	50	2000	---	103	80-120%	---	---	
o-Xylene	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (22G0745-DUP1)						Prepared: 07/21/22 19:02 Analyzed: 07/22/22 20:19						
QC Source Sample: Non-SDG (A2G0571-01)												
Acetone	ND	194000	388000	ug/kg wet	5000	---	ND	---	---	---	30%	ICV-02
Acrylonitrile	ND	19400	38800	ug/kg wet	5000	---	ND	---	---	---	30%	
Benzene	75200	1940	3880	ug/kg wet	5000	---	76000	---	---	1	30%	
Bromobenzene	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
Bromochloromethane	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Bromodichloromethane	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Bromoform	ND	19400	38800	ug/kg wet	5000	---	ND	---	---	---	30%	
Bromomethane	ND	194000	194000	ug/kg wet	5000	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	194000	194000	ug/kg wet	5000	---	ND	---	---	---	30%	ICV-02
n-Butylbenzene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Carbon disulfide	ND	96900	194000	ug/kg wet	5000	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Chlorobenzene	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
Chloroethane	ND	96900	194000	ug/kg wet	5000	---	ND	---	---	---	30%	
Chloroform	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Chloromethane	ND	48400	96900	ug/kg wet	5000	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Dibromochloromethane	ND	19400	38800	ug/kg wet	5000	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	48400	96900	ug/kg wet	5000	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Dibromomethane	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0745 - EPA 5035A						Soil						
Duplicate (22G0745-DUP1)			Prepared: 07/21/22 19:02 Analyzed: 07/22/22 20:19									
QC Source Sample: Non-SDG (A2G0571-01)												
1,3-Dichlorobenzene	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	19400	38800	ug/kg wet	5000	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Ethylbenzene	18200	4840	9690	ug/kg wet	5000	---	18200	---	---	0	30%	
Hexachlorobutadiene	ND	19400	38800	ug/kg wet	5000	---	ND	---	---	---	30%	
2-Hexanone	ND	96900	194000	ug/kg wet	5000	---	ND	---	---	---	30%	
Isopropylbenzene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Methylene chloride	ND	96900	194000	ug/kg wet	5000	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	96900	194000	ug/kg wet	5000	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Naphthalene	ND	19400	38800	ug/kg wet	5000	---	ND	---	---	---	30%	
n-Propylbenzene	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
Styrene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	5810	4840	9690	ug/kg wet	5000	---	6400	---	---	10	30%	J
Toluene	118000	9690	19400	ug/kg wet	5000	---	116000	---	---	1	30%	
1,2,3-Trichlorobenzene	ND	48400	96900	ug/kg wet	5000	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	48400	96900	ug/kg wet	5000	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0745 - EPA 5035A												
Soil												
Duplicate (22G0745-DUP1)												
Prepared: 07/21/22 19:02 Analyzed: 07/22/22 20:19												
QC Source Sample: Non-SDG (A2G0571-01)												
Trichloroethene (TCE)	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	19400	38800	ug/kg wet	5000	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	9690	19400	ug/kg wet	5000	---	ND	---	---	---	30%	
Vinyl chloride	ND	4840	9690	ug/kg wet	5000	---	ND	---	---	---	30%	
m,p-Xylene	33700	9690	19400	ug/kg wet	5000	---	33500	---	---	0.6	30%	
o-Xylene	6010	4840	9690	ug/kg wet	5000	---	6400	---	---	6	30%	J
<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>98 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (22G0745-MS1)												
Prepared: 07/21/22 19:02 Analyzed: 07/23/22 02:36												
QC Source Sample: Non-SDG (A2G0602-27)												
5035A/8260D												
Acetone	1440	568	1140	ug/kg dry	50	2270	ND	64	36-164%	---	---	ICV-02, Q-54g
Acrylonitrile	992	56.8	114	ug/kg dry	50	1130	ND	87	65-134%	---	---	
Benzene	1130	5.68	11.4	ug/kg dry	50	1130	ND	99	77-121%	---	---	
Bromobenzene	1110	14.2	28.4	ug/kg dry	50	1130	ND	97	78-121%	---	---	
Bromochloromethane	1070	28.4	56.8	ug/kg dry	50	1130	ND	94	78-125%	---	---	
Bromodichloromethane	1140	28.4	56.8	ug/kg dry	50	1130	ND	100	75-127%	---	---	
Bromoform	875	56.8	114	ug/kg dry	50	1130	ND	77	67-132%	---	---	
Bromomethane	1550	568	568	ug/kg dry	50	1130	ND	137	53-143%	---	---	ICV-01, Q-54
2-Butanone (MEK)	1520	284	568	ug/kg dry	50	2270	ND	67	51-148%	---	---	ICV-02, Q-54f
n-Butylbenzene	1160	28.4	56.8	ug/kg dry	50	1130	ND	102	70-128%	---	---	
sec-Butylbenzene	1210	28.4	56.8	ug/kg dry	50	1130	ND	107	73-126%	---	---	
tert-Butylbenzene	1130	28.4	56.8	ug/kg dry	50	1130	ND	99	73-125%	---	---	
Carbon disulfide	906	284	568	ug/kg dry	50	1130	ND	80	63-132%	---	---	
Carbon tetrachloride	1270	28.4	56.8	ug/kg dry	50	1130	ND	112	70-135%	---	---	
Chlorobenzene	1110	14.2	28.4	ug/kg dry	50	1130	ND	98	79-120%	---	---	
Chloroethane	1190	284	568	ug/kg dry	50	1130	ND	105	59-139%	---	---	Q-54c

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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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0745 - EPA 5035A						Soil						
Matrix Spike (22G0745-MS1)			Prepared: 07/21/22 19:02 Analyzed: 07/23/22 02:36									
QC Source Sample: Non-SDG (A2G0602-27)												
Chloroform	1130	28.4	56.8	ug/kg dry	50	1130	ND	100	78-123%	---	---	
Chloromethane	973	142	284	ug/kg dry	50	1130	ND	86	50-136%	---	---	
2-Chlorotoluene	1120	28.4	56.8	ug/kg dry	50	1130	ND	99	75-122%	---	---	
4-Chlorotoluene	1090	28.4	56.8	ug/kg dry	50	1130	ND	96	72-124%	---	---	
Dibromochloromethane	956	56.8	114	ug/kg dry	50	1130	ND	84	74-126%	---	---	
1,2-Dibromo-3-chloropropane	825	142	284	ug/kg dry	50	1130	ND	73	61-132%	---	---	
1,2-Dibromoethane (EDB)	1110	28.4	56.8	ug/kg dry	50	1130	ND	98	78-122%	---	---	
Dibromomethane	1090	28.4	56.8	ug/kg dry	50	1130	ND	96	78-125%	---	---	
1,2-Dichlorobenzene	1100	14.2	28.4	ug/kg dry	50	1130	ND	97	78-121%	---	---	
1,3-Dichlorobenzene	1100	14.2	28.4	ug/kg dry	50	1130	ND	97	77-121%	---	---	
1,4-Dichlorobenzene	1080	14.2	28.4	ug/kg dry	50	1130	ND	95	75-120%	---	---	
Dichlorodifluoromethane	1470	56.8	114	ug/kg dry	50	1130	ND	129	29-149%	---	---	Q-54d
1,1-Dichloroethane	1150	14.2	28.4	ug/kg dry	50	1130	ND	101	76-125%	---	---	
1,2-Dichloroethane (EDC)	1110	14.2	28.4	ug/kg dry	50	1130	ND	98	73-128%	---	---	
1,1-Dichloroethene	1210	14.2	28.4	ug/kg dry	50	1130	ND	106	70-131%	---	---	
cis-1,2-Dichloroethene	1130	14.2	28.4	ug/kg dry	50	1130	ND	99	77-123%	---	---	
trans-1,2-Dichloroethene	1150	14.2	28.4	ug/kg dry	50	1130	ND	101	74-125%	---	---	
1,2-Dichloropropane	1110	14.2	28.4	ug/kg dry	50	1130	ND	98	76-123%	---	---	
1,3-Dichloropropane	1110	28.4	56.8	ug/kg dry	50	1130	ND	97	77-121%	---	---	
2,2-Dichloropropane	927	28.4	56.8	ug/kg dry	50	1130	ND	82	67-133%	---	---	
1,1-Dichloropropene	1270	28.4	56.8	ug/kg dry	50	1130	ND	112	76-125%	---	---	
cis-1,3-Dichloropropene	1040	28.4	56.8	ug/kg dry	50	1130	ND	91	74-126%	---	---	
trans-1,3-Dichloropropene	1090	28.4	56.8	ug/kg dry	50	1130	ND	96	71-130%	---	---	
Ethylbenzene	1120	14.2	28.4	ug/kg dry	50	1130	ND	98	76-122%	---	---	
Hexachlorobutadiene	1120	56.8	114	ug/kg dry	50	1130	ND	99	61-135%	---	---	
2-Hexanone	1650	284	568	ug/kg dry	50	2270	ND	73	53-145%	---	---	
Isopropylbenzene	1180	28.4	56.8	ug/kg dry	50	1130	ND	104	68-134%	---	---	
4-Isopropyltoluene	1180	28.4	56.8	ug/kg dry	50	1130	ND	104	73-127%	---	---	
Methylene chloride	1100	284	568	ug/kg dry	50	1130	ND	97	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	1870	284	568	ug/kg dry	50	2270	ND	82	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1060	28.4	56.8	ug/kg dry	50	1130	ND	93	73-125%	---	---	
Naphthalene	1040	56.8	114	ug/kg dry	50	1130	ND	92	62-129%	---	---	
n-Propylbenzene	1130	14.2	28.4	ug/kg dry	50	1130	ND	100	73-125%	---	---	

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0745 - EPA 5035A						Soil						
Matrix Spike (22G0745-MS1)						Prepared: 07/21/22 19:02 Analyzed: 07/23/22 02:36						
QC Source Sample: Non-SDG (A2G0602-27)												
Styrene	1120	28.4	56.8	ug/kg dry	50	1130	ND	99	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1250	14.2	28.4	ug/kg dry	50	1130	ND	110	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1050	28.4	56.8	ug/kg dry	50	1130	ND	92	70-124%	---	---	
Tetrachloroethene (PCE)	1230	14.2	28.4	ug/kg dry	50	1130	ND	108	73-128%	---	---	
Toluene	1070	28.4	56.8	ug/kg dry	50	1130	ND	94	77-121%	---	---	
1,2,3-Trichlorobenzene	1030	142	284	ug/kg dry	50	1130	ND	91	66-130%	---	---	
1,2,4-Trichlorobenzene	1000	142	284	ug/kg dry	50	1130	ND	88	67-129%	---	---	
1,1,1-Trichloroethane	1230	14.2	28.4	ug/kg dry	50	1130	ND	108	73-130%	---	---	
1,1,2-Trichloroethane	1120	14.2	28.4	ug/kg dry	50	1130	ND	99	78-121%	---	---	
Trichloroethene (TCE)	1210	14.2	28.4	ug/kg dry	50	1130	ND	106	77-123%	---	---	
Trichlorofluoromethane	1440	56.8	114	ug/kg dry	50	1130	ND	127	62-140%	---	---	Q-54b
1,2,3-Trichloropropane	1080	28.4	56.8	ug/kg dry	50	1130	ND	95	73-125%	---	---	
1,2,4-Trimethylbenzene	1170	28.4	56.8	ug/kg dry	50	1130	ND	103	75-123%	---	---	
1,3,5-Trimethylbenzene	1180	28.4	56.8	ug/kg dry	50	1130	ND	104	73-124%	---	---	
Vinyl chloride	1310	14.2	28.4	ug/kg dry	50	1130	ND	116	56-135%	---	---	
m,p-Xylene	2270	28.4	56.8	ug/kg dry	50	2270	ND	100	77-124%	---	---	
o-Xylene	1110	14.2	28.4	ug/kg dry	50	1130	ND	98	77-123%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>79-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0857 - EPA 5035A						Soil						
Blank (22G0857-BLK1)			Prepared: 07/26/22 08:38 Analyzed: 07/27/22 00:54									
<u>5035A/8260D</u>												
Acetone	ND	667	667	ug/kg wet	50	---	---	---	---	---	---	ICV-02
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	66.7	66.7	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	333	333	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	333	333	ug/kg wet	50	---	---	---	---	---	---	ICV-02
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	167	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	167	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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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0857 - EPA 5035A						Soil						
Blank (22G0857-BLK1)			Prepared: 07/26/22 08:38 Analyzed: 07/27/22 00:54									
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	33.3	33.3	ug/kg wet	50	---	---	---	---	---	---	Q-30
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	333	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	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x</i>												

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0857 - EPA 5035A						Soil						
Blank (22G0857-BLK1)						Prepared: 07/26/22 08:38 Analyzed: 07/27/22 00:54						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (22G0857-BS1)						Prepared: 07/26/22 08:38 Analyzed: 07/27/22 00:00						
5035A/8260D												
Acetone	1210	1000	1000	ug/kg wet	50	2000	---	61	80-120%	---	---	Q-55, ICV-02
Acrylonitrile	846	50.0	100	ug/kg wet	50	1000	---	85	80-120%	---	---	
Benzene	977	5.00	10.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromobenzene	952	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Bromochloromethane	932	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Bromodichloromethane	996	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Bromoform	784	100	100	ug/kg wet	50	1000	---	78	80-120%	---	---	Q-55
Bromomethane	1200	500	500	ug/kg wet	50	1000	---	120	80-120%	---	---	ICV-01
2-Butanone (MEK)	1280	500	500	ug/kg wet	50	2000	---	64	80-120%	---	---	ICV-02, Q-55
n-Butylbenzene	994	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
sec-Butylbenzene	1030	25.0	50.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
tert-Butylbenzene	951	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Carbon disulfide	755	250	500	ug/kg wet	50	1000	---	76	80-120%	---	---	Q-55
Carbon tetrachloride	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
Chlorobenzene	964	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Chloroethane	1020	250	500	ug/kg wet	50	1000	---	102	80-120%	---	---	
Chloroform	978	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Chloromethane	788	250	250	ug/kg wet	50	1000	---	79	80-120%	---	---	Q-55
2-Chlorotoluene	995	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
4-Chlorotoluene	941	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Dibromochloromethane	852	50.0	100	ug/kg wet	50	1000	---	85	80-120%	---	---	
1,2-Dibromo-3-chloropropane	753	250	250	ug/kg wet	50	1000	---	75	80-120%	---	---	Q-55
1,2-Dibromoethane (EDB)	989	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Dibromomethane	954	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
1,2-Dichlorobenzene	972	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,3-Dichlorobenzene	958	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
1,4-Dichlorobenzene	949	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Dichlorodifluoromethane	1130	50.0	100	ug/kg wet	50	1000	---	113	80-120%	---	---	
1,1-Dichloroethane	932	12.5	25.0	ug/kg wet	50	1000	---	93	80-120%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22G0857 - EPA 5035A						Soil						
LCS (22G0857-BS1)			Prepared: 07/26/22 08:38 Analyzed: 07/27/22 00:00									
1,2-Dichloroethane (EDC)	990	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,1-Dichloroethene	986	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
cis-1,2-Dichloroethene	950	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
trans-1,2-Dichloroethene	980	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,2-Dichloropropane	970	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,3-Dichloropropane	976	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
2,2-Dichloropropane	690	50.0	50.0	ug/kg wet	50	1000	---	69	80-120%	---	---	Q-30
1,1-Dichloropropene	1070	25.0	50.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
cis-1,3-Dichloropropene	880	25.0	50.0	ug/kg wet	50	1000	---	88	80-120%	---	---	
trans-1,3-Dichloropropene	926	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Ethylbenzene	958	12.5	25.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Hexachlorobutadiene	938	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
2-Hexanone	1400	500	500	ug/kg wet	50	2000	---	70	80-120%	---	---	Q-55
Isopropylbenzene	986	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
4-Isopropyltoluene	1000	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Methylene chloride	971	250	500	ug/kg wet	50	1000	---	97	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1590	250	500	ug/kg wet	50	2000	---	80	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	928	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Naphthalene	898	50.0	100	ug/kg wet	50	1000	---	90	80-120%	---	---	
n-Propylbenzene	976	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Styrene	933	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,1,2,2-Tetrachloroethane	978	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Tetrachloroethene (PCE)	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Toluene	923	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,2,3-Trichlorobenzene	906	125	250	ug/kg wet	50	1000	---	91	80-120%	---	---	
1,2,4-Trichlorobenzene	892	125	250	ug/kg wet	50	1000	---	89	80-120%	---	---	
1,1,1-Trichloroethane	1030	12.5	25.0	ug/kg wet	50	1000	---	103	80-120%	---	---	
1,1,2-Trichloroethane	978	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Trichloroethene (TCE)	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Trichlorofluoromethane	1350	50.0	100	ug/kg wet	50	1000	---	135	80-120%	---	---	Q-29
1,2,3-Trichloropropane	994	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2,4-Trimethylbenzene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,3,5-Trimethylbenzene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	

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ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2G0558 - 08 25 22 0848

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 22G0857 - EPA 5035A						Soil						
LCS (22G0857-BS1)						Prepared: 07/26/22 08:38 Analyzed: 07/27/22 00:00						
Vinyl chloride	942	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
m,p-Xylene	1910	25.0	50.0	ug/kg wet	50	2000	---	95	80-120%	---	---	
o-Xylene	930	12.5	25.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
<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>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (22G0857-DUP1)						Prepared: 07/23/22 14:58 Analyzed: 07/27/22 04:03						
QC Source Sample: Non-SDG (A2G0691-02)												
Acetone	ND	1060	1060	ug/kg dry	50	---	ND	---	---	---	30%	ICV-02
Acrylonitrile	ND	52.9	106	ug/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	5.29	10.6	ug/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	106	106	ug/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	529	529	ug/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	529	529	ug/kg dry	50	---	ND	---	---	---	30%	ICV-02
n-Butylbenzene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	265	529	ug/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	265	529	ug/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	265	265	ug/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	52.9	106	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	265	265	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22G0857 - EPA 5035A						Soil						
Duplicate (22G0857-DUP1)			Prepared: 07/23/22 14:58 Analyzed: 07/27/22 04:03									
QC Source Sample: Non-SDG (A2G0691-02)												
1,3-Dichlorobenzene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	52.9	106	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	52.9	52.9	ug/kg dry	50	---	ND	---	---	---	30%	Q-30
1,1-Dichloropropene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	52.9	106	ug/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	529	529	ug/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	265	529	ug/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	265	529	ug/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	52.9	106	ug/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	132	265	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	132	265	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	13.2	26.5	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 22G0857 - EPA 5035A						Soil						
Duplicate (22G0857-DUP1)			Prepared: 07/23/22 14:58 Analyzed: 07/27/22 04:03									
QC Source Sample: Non-SDG (A2G0691-02)												
Trichloroethene (TCE)	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	52.9	106	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	13.2	26.5	ug/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	26.5	52.9	ug/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	13.2	26.5	ug/kg dry	50	---	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>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>79-120 %</i>		<i>"</i>						

Matrix Spike (22G0857-MS1)						Prepared: 07/20/22 13:06 Analyzed: 07/27/22 06:18						
QC Source Sample: Non-SDG (A2G0561-01)												
5035A/8260D												
Acetone	1340	1110	1110	ug/kg dry	50	2210	ND	61	36-164%	---	---	ICV-02, Q-54j
Acrylonitrile	880	55.3	111	ug/kg dry	50	1110	ND	80	65-134%	---	---	
Benzene	1090	5.53	11.1	ug/kg dry	50	1110	ND	98	77-121%	---	---	
Bromobenzene	1040	13.8	27.7	ug/kg dry	50	1110	ND	94	78-121%	---	---	
Bromochloromethane	977	27.7	55.3	ug/kg dry	50	1110	ND	88	78-125%	---	---	
Bromodichloromethane	1070	27.7	55.3	ug/kg dry	50	1110	ND	97	75-127%	---	---	
Bromoform	840	111	111	ug/kg dry	50	1110	ND	76	67-132%	---	---	Q-54k
Bromomethane	1250	553	553	ug/kg dry	50	1110	ND	113	53-143%	---	---	ICV-01
2-Butanone (MEK)	1370	553	553	ug/kg dry	50	2210	ND	62	51-148%	---	---	ICV-02, Q-54i
n-Butylbenzene	1130	27.7	55.3	ug/kg dry	50	1110	ND	102	70-128%	---	---	
sec-Butylbenzene	1180	27.7	55.3	ug/kg dry	50	1110	ND	106	73-126%	---	---	
tert-Butylbenzene	1080	27.7	55.3	ug/kg dry	50	1110	ND	97	73-125%	---	---	
Carbon disulfide	818	277	553	ug/kg dry	50	1110	ND	74	63-132%	---	---	Q-54h
Carbon tetrachloride	1250	27.7	55.3	ug/kg dry	50	1110	ND	113	70-135%	---	---	
Chlorobenzene	1060	13.8	27.7	ug/kg dry	50	1110	ND	96	79-120%	---	---	
Chloroethane	1580	277	553	ug/kg dry	50	1110	ND	142	59-139%	---	---	Q-01

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

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0857 - EPA 5035A						Soil						
Matrix Spike (22G0857-MS1)						Prepared: 07/20/22 13:06 Analyzed: 07/27/22 06:18						
QC Source Sample: Non-SDG (A2G0561-01)												
Chloroform	1080	27.7	55.3	ug/kg dry	50	1110	ND	98	78-123%	---	---	
Chloromethane	894	277	277	ug/kg dry	50	1110	ND	81	50-136%	---	---	Q-54e
2-Chlorotoluene	1090	27.7	55.3	ug/kg dry	50	1110	ND	99	75-122%	---	---	
4-Chlorotoluene	1050	27.7	55.3	ug/kg dry	50	1110	ND	95	72-124%	---	---	
Dibromochloromethane	921	55.3	111	ug/kg dry	50	1110	ND	83	74-126%	---	---	
1,2-Dibromo-3-chloropropane	779	277	277	ug/kg dry	50	1110	ND	70	61-132%	---	---	Q-54i
1,2-Dibromoethane (EDB)	1040	27.7	55.3	ug/kg dry	50	1110	ND	94	78-122%	---	---	
Dibromomethane	1030	27.7	55.3	ug/kg dry	50	1110	ND	93	78-125%	---	---	
1,2-Dichlorobenzene	1060	13.8	27.7	ug/kg dry	50	1110	ND	96	78-121%	---	---	
1,3-Dichlorobenzene	1050	13.8	27.7	ug/kg dry	50	1110	ND	95	77-121%	---	---	
1,4-Dichlorobenzene	1050	13.8	27.7	ug/kg dry	50	1110	ND	95	75-120%	---	---	
Dichlorodifluoromethane	1320	55.3	111	ug/kg dry	50	1110	ND	120	29-149%	---	---	
1,1-Dichloroethane	1030	13.8	27.7	ug/kg dry	50	1110	ND	94	76-125%	---	---	
1,2-Dichloroethane (EDC)	1050	13.8	27.7	ug/kg dry	50	1110	ND	95	73-128%	---	---	
1,1-Dichloroethene	1130	13.8	27.7	ug/kg dry	50	1110	ND	102	70-131%	---	---	
cis-1,2-Dichloroethene	1060	13.8	27.7	ug/kg dry	50	1110	ND	96	77-123%	---	---	
trans-1,2-Dichloroethene	1090	13.8	27.7	ug/kg dry	50	1110	ND	99	74-125%	---	---	
1,2-Dichloropropane	1060	13.8	27.7	ug/kg dry	50	1110	ND	96	76-123%	---	---	
1,3-Dichloropropane	1040	27.7	55.3	ug/kg dry	50	1110	ND	94	77-121%	---	---	
2,2-Dichloropropane	703	55.3	55.3	ug/kg dry	50	1110	ND	64	67-133%	---	---	Q-30
1,1-Dichloropropene	1230	27.7	55.3	ug/kg dry	50	1110	ND	111	76-125%	---	---	
cis-1,3-Dichloropropene	934	27.7	55.3	ug/kg dry	50	1110	ND	84	74-126%	---	---	
trans-1,3-Dichloropropene	987	27.7	55.3	ug/kg dry	50	1110	ND	89	71-130%	---	---	
Ethylbenzene	1060	13.8	27.7	ug/kg dry	50	1110	ND	96	76-122%	---	---	
Hexachlorobutadiene	1080	55.3	111	ug/kg dry	50	1110	ND	98	61-135%	---	---	
2-Hexanone	1500	553	553	ug/kg dry	50	2210	ND	68	53-145%	---	---	Q-54f
Isopropylbenzene	1130	27.7	55.3	ug/kg dry	50	1110	ND	102	68-134%	---	---	
4-Isopropyltoluene	1140	27.7	55.3	ug/kg dry	50	1110	ND	103	73-127%	---	---	
Methylene chloride	1060	277	553	ug/kg dry	50	1110	ND	96	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	1690	277	553	ug/kg dry	50	2210	ND	77	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	987	27.7	55.3	ug/kg dry	50	1110	ND	89	73-125%	---	---	
Naphthalene	965	55.3	111	ug/kg dry	50	1110	ND	87	62-129%	---	---	
n-Propylbenzene	1090	13.8	27.7	ug/kg dry	50	1110	ND	99	73-125%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22G0857 - EPA 5035A						Soil						
Matrix Spike (22G0857-MS1)						Prepared: 07/20/22 13:06 Analyzed: 07/27/22 06:18						
QC Source Sample: Non-SDG (A2G0561-01)												
Styrene	1050	27.7	55.3	ug/kg dry	50	1110	ND	95	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1190	13.8	27.7	ug/kg dry	50	1110	ND	108	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1000	27.7	55.3	ug/kg dry	50	1110	ND	90	70-124%	---	---	
Tetrachloroethene (PCE)	1170	13.8	27.7	ug/kg dry	50	1110	ND	106	73-128%	---	---	
Toluene	1030	27.7	55.3	ug/kg dry	50	1110	ND	93	77-121%	---	---	
1,2,3-Trichlorobenzene	982	138	277	ug/kg dry	50	1110	ND	89	66-130%	---	---	
1,2,4-Trichlorobenzene	953	138	277	ug/kg dry	50	1110	ND	86	67-129%	---	---	
1,1,1-Trichloroethane	1170	13.8	27.7	ug/kg dry	50	1110	ND	106	73-130%	---	---	
1,1,2-Trichloroethane	1050	13.8	27.7	ug/kg dry	50	1110	ND	95	78-121%	---	---	
Trichloroethene (TCE)	1160	13.8	27.7	ug/kg dry	50	1110	ND	105	77-123%	---	---	
Trichlorofluoromethane	1950	55.3	111	ug/kg dry	50	1110	ND	176	62-140%	---	---	Q-29
1,2,3-Trichloropropane	1030	27.7	55.3	ug/kg dry	50	1110	ND	93	73-125%	---	---	
1,2,4-Trimethylbenzene	1130	27.7	55.3	ug/kg dry	50	1110	ND	102	75-123%	---	---	
1,3,5-Trimethylbenzene	1140	27.7	55.3	ug/kg dry	50	1110	ND	103	73-124%	---	---	
Vinyl chloride	1140	13.8	27.7	ug/kg dry	50	1110	ND	103	56-135%	---	---	
m,p-Xylene	2140	27.7	55.3	ug/kg dry	50	2210	ND	97	77-124%	---	---	
o-Xylene	1040	13.8	27.7	ug/kg dry	50	1110	ND	94	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>97 %</i>		<i>79-120 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0954 - EPA 1311/5030B TCLP Volatiles						Water						
Blank (22G0954-BLK1)			Prepared: 07/28/22 10:26 Analyzed: 07/28/22 13:42									
<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: 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>102 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (22G0954-BS1)			Prepared: 07/28/22 10:26 Analyzed: 07/28/22 12:48									
<u>1311/8260D</u>												
Benzene	1130	6.25	12.5	ug/L	50	1000	---	113	80-120%	---	---	
2-Butanone (MEK)	2230	250	500	ug/L	50	2000	---	111	80-120%	---	---	
Carbon tetrachloride	1330	25.0	50.0	ug/L	50	1000	---	133	80-120%	---	---	Q-56
Chlorobenzene	1010	12.5	25.0	ug/L	50	1000	---	101	80-120%	---	---	
Chloroform	1050	25.0	50.0	ug/L	50	1000	---	105	80-120%	---	---	
1,4-Dichlorobenzene	974	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
1,1-Dichloroethene	1110	12.5	25.0	ug/L	50	1000	---	111	80-120%	---	---	
1,2-Dichloroethane (EDC)	1000	12.5	25.0	ug/L	50	1000	---	100	80-120%	---	---	
Tetrachloroethene (PCE)	1120	12.5	25.0	ug/L	50	1000	---	112	80-120%	---	---	
Trichloroethene (TCE)	1030	12.5	25.0	ug/L	50	1000	---	103	80-120%	---	---	
Vinyl chloride	1060	12.5	25.0	ug/L	50	1000	---	106	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 97 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						

Duplicate (22G0954-DUP1)	Prepared: 07/28/22 10:26 Analyzed: 07/28/22 16:51	TCLP
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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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0954 - EPA 1311/5030B TCLP Volatiles						Water							
Duplicate (22G0954-DUP1)			Prepared: 07/28/22 10:26 Analyzed: 07/28/22 16:51						TCLP				
QC Source Sample: Non-SDG (A2G0563-02)													
Benzene	ND	62.5	125	ug/L	500	---	ND	---	---	---	30%		
2-Butanone (MEK)	ND	2500	5000	ug/L	500	---	ND	---	---	---	30%		
Carbon tetrachloride	ND	250	500	ug/L	500	---	ND	---	---	---	30%		
Chlorobenzene	ND	125	250	ug/L	500	---	ND	---	---	---	30%		
Chloroform	ND	250	500	ug/L	500	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	125	250	ug/L	500	---	ND	---	---	---	30%		
1,1-Dichloroethene	ND	125	250	ug/L	500	---	ND	---	---	---	30%		
1,2-Dichloroethane (EDC)	ND	125	250	ug/L	500	---	ND	---	---	---	30%		
Tetrachloroethene (PCE)	ND	125	250	ug/L	500	---	ND	---	---	---	30%		
Trichloroethene (TCE)	ND	125	250	ug/L	500	---	ND	---	---	---	30%		
Vinyl chloride	ND	125	250	ug/L	500	---	ND	---	---	---	30%		
<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>102 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>		<i>"</i>							

Matrix Spike (22G0954-MS1)			Prepared: 07/28/22 10:26 Analyzed: 07/28/22 14:36						TCLP				
QC Source Sample: Non-SDG (A2G0613-04)													
1311/8260D													
Benzene	1110	6.25	12.5	ug/L	50	1000	ND	111	79-120%	---	---		
2-Butanone (MEK)	2340	250	500	ug/L	50	2000	ND	117	56-143%	---	---		
Carbon tetrachloride	1320	25.0	50.0	ug/L	50	1000	ND	132	72-136%	---	---	Q-54a	
Chlorobenzene	1010	12.5	25.0	ug/L	50	1000	ND	101	80-120%	---	---		
Chloroform	1050	25.0	50.0	ug/L	50	1000	ND	105	79-124%	---	---		
1,4-Dichlorobenzene	964	12.5	25.0	ug/L	50	1000	ND	96	79-120%	---	---		
1,1-Dichloroethene	1090	12.5	25.0	ug/L	50	1000	ND	109	71-131%	---	---		
1,2-Dichloroethane (EDC)	999	12.5	25.0	ug/L	50	1000	ND	100	73-128%	---	---		
Tetrachloroethene (PCE)	1110	12.5	25.0	ug/L	50	1000	ND	111	74-129%	---	---		
Trichloroethene (TCE)	1030	12.5	25.0	ug/L	50	1000	ND	103	79-123%	---	---		
Vinyl chloride	1050	12.5	25.0	ug/L	50	1000	ND	105	58-137%	---	---		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>							

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2G0558 - 08 25 22 0848

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 22H0028 - EPA 3546						Solid						
Blank (22H0028-BLK1)			Prepared: 08/01/22 10:26 Analyzed: 08/01/22 15:43									
<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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22H0028 - EPA 3546						Solid						
Blank (22H0028-BLK1)			Prepared: 08/01/22 10:26 Analyzed: 08/01/22 15:43									
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	ND	12.5	25.0	ug/kg wet	1	---	---	---	---	---	---	
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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22H0028 - EPA 3546						Solid						
Blank (22H0028-BLK1)			Prepared: 08/01/22 10:26 Analyzed: 08/01/22 15:43									
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: 88 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>78 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>71 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>83 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>73 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>85 %</i>		<i>39-132 %</i>		<i>"</i>						

LCS (22H0028-BS1)			Prepared: 08/01/22 10:26 Analyzed: 08/01/22 16:14									
EPA 8270E												
Acenaphthene	499	5.32	10.7	ug/kg wet	4	533	---	94	40-123%	---	---	
Acenaphthylene	505	5.32	10.7	ug/kg wet	4	533	---	95	32-132%	---	---	
Anthracene	502	5.32	10.7	ug/kg wet	4	533	---	94	47-123%	---	---	
Benz(a)anthracene	489	5.32	10.7	ug/kg wet	4	533	---	92	49-126%	---	---	
Benzo(a)pyrene	511	8.00	16.0	ug/kg wet	4	533	---	96	45-129%	---	---	
Benzo(b)fluoranthene	512	8.00	16.0	ug/kg wet	4	533	---	96	45-132%	---	---	
Benzo(k)fluoranthene	502	8.00	16.0	ug/kg wet	4	533	---	94	47-132%	---	---	
Benzo(g,h,i)perylene	498	5.32	10.7	ug/kg wet	4	533	---	93	43-134%	---	---	
Chrysene	480	5.32	10.7	ug/kg wet	4	533	---	90	50-124%	---	---	
Dibenz(a,h)anthracene	495	5.32	10.7	ug/kg wet	4	533	---	93	45-134%	---	---	
Fluoranthene	500	5.32	10.7	ug/kg wet	4	533	---	94	50-127%	---	---	
Fluorene	463	5.32	10.7	ug/kg wet	4	533	---	87	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	495	5.32	10.7	ug/kg wet	4	533	---	93	45-133%	---	---	
1-Methylnaphthalene	484	10.7	21.3	ug/kg wet	4	533	---	91	40-120%	---	---	
2-Methylnaphthalene	500	10.7	21.3	ug/kg wet	4	533	---	94	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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22H0028 - EPA 3546						Solid						
LCS (22H0028-BS1)			Prepared: 08/01/22 10:26 Analyzed: 08/01/22 16:14									
Naphthalene	485	10.7	21.3	ug/kg wet	4	533	---	91	35-123%	---	---	
Phenanthrene	483	5.32	10.7	ug/kg wet	4	533	---	91	50-121%	---	---	
Pyrene	492	5.32	10.7	ug/kg wet	4	533	---	92	47-127%	---	---	
Carbazole	474	8.00	16.0	ug/kg wet	4	533	---	89	50-123%	---	---	
Dibenzofuran	482	5.32	10.7	ug/kg wet	4	533	---	90	44-120%	---	---	
2-Chlorophenol	470	26.7	53.2	ug/kg wet	4	533	---	88	34-121%	---	---	
4-Chloro-3-methylphenol	482	53.2	107	ug/kg wet	4	533	---	90	45-122%	---	---	
2,4-Dichlorophenol	464	26.7	53.2	ug/kg wet	4	533	---	87	40-122%	---	---	
2,4-Dimethylphenol	514	26.7	53.2	ug/kg wet	4	533	---	96	30-127%	---	---	
2,4-Dinitrophenol	354	133	267	ug/kg wet	4	533	---	66	10-137%	---	---	
4,6-Dinitro-2-methylphenol	408	133	267	ug/kg wet	4	533	---	77	29-132%	---	---	
2-Methylphenol	481	13.3	26.7	ug/kg wet	4	533	---	90	32-122%	---	---	
3+4-Methylphenol(s)	495	13.3	26.7	ug/kg wet	4	533	---	93	34-120%	---	---	
2-Nitrophenol	524	53.2	107	ug/kg wet	4	533	---	98	36-123%	---	---	
4-Nitrophenol	412	53.2	107	ug/kg wet	4	533	---	77	30-132%	---	---	
Pentachlorophenol (PCP)	425	53.2	107	ug/kg wet	4	533	---	80	25-133%	---	---	
Phenol	449	10.7	21.3	ug/kg wet	4	533	---	84	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	482	26.7	53.2	ug/kg wet	4	533	---	90	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	462	26.7	53.2	ug/kg wet	4	533	---	87	40-120%	---	---	
2,4,5-Trichlorophenol	474	26.7	53.2	ug/kg wet	4	533	---	89	41-124%	---	---	
Nitrobenzene	456	53.2	107	ug/kg wet	4	533	---	86	34-122%	---	---	
2,4,6-Trichlorophenol	472	26.7	53.2	ug/kg wet	4	533	---	89	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	476	80.0	160	ug/kg wet	4	533	---	89	51-133%	---	---	
Butyl benzyl phthalate	478	53.2	107	ug/kg wet	4	533	---	90	48-132%	---	---	
Diethylphthalate	460	53.2	107	ug/kg wet	4	533	---	86	50-124%	---	---	
Dimethylphthalate	481	53.2	107	ug/kg wet	4	533	---	90	48-124%	---	---	
Di-n-butylphthalate	513	53.2	107	ug/kg wet	4	533	---	96	51-128%	---	---	
Di-n-octyl phthalate	479	53.2	107	ug/kg wet	4	533	---	90	45-140%	---	---	
N-Nitrosodimethylamine	427	13.3	26.7	ug/kg wet	4	533	---	80	23-120%	---	---	
N-Nitroso-di-n-propylamine	483	13.3	26.7	ug/kg wet	4	533	---	91	36-120%	---	---	
N-Nitrosodiphenylamine	489	13.3	26.7	ug/kg wet	4	533	---	92	38-127%	---	---	
Bis(2-Chloroethoxy) methane	501	13.3	26.7	ug/kg wet	4	533	---	94	36-121%	---	---	
Bis(2-Chloroethyl) ether	440	13.3	26.7	ug/kg wet	4	533	---	83	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	508	13.3	26.7	ug/kg wet	4	533	---	95	39-120%	---	---	

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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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22H0028 - EPA 3546						Solid						
LCS (22H0028-BS1)			Prepared: 08/01/22 10:26 Analyzed: 08/01/22 16:14									
Hexachlorobenzene	489	5.32	10.7	ug/kg wet	4	533	---	92	45-122%	---	---	
Hexachlorobutadiene	463	13.3	26.7	ug/kg wet	4	533	---	87	32-123%	---	---	
Hexachlorocyclopentadiene	456	26.7	53.2	ug/kg wet	4	533	---	85	10-140%	---	---	
Hexachloroethane	460	13.3	26.7	ug/kg wet	4	533	---	86	28-120%	---	---	
2-Chloronaphthalene	504	5.32	10.7	ug/kg wet	4	533	---	94	41-120%	---	---	
1,2,4-Trichlorobenzene	481	13.3	26.7	ug/kg wet	4	533	---	90	34-120%	---	---	
4-Bromophenyl phenyl ether	485	13.3	26.7	ug/kg wet	4	533	---	91	46-124%	---	---	
4-Chlorophenyl phenyl ether	466	13.3	26.7	ug/kg wet	4	533	---	87	45-121%	---	---	
Aniline	352	26.7	53.2	ug/kg wet	4	533	---	66	10-120%	---	---	
4-Chloroaniline	373	13.3	26.7	ug/kg wet	4	533	---	70	17-120%	---	---	
2-Nitroaniline	481	107	213	ug/kg wet	4	533	---	90	44-127%	---	---	
3-Nitroaniline	414	107	213	ug/kg wet	4	533	---	78	33-120%	---	---	
4-Nitroaniline	448	107	213	ug/kg wet	4	533	---	84	51-125%	---	---	
2,4-Dinitrotoluene	489	53.2	107	ug/kg wet	4	533	---	92	48-126%	---	---	
2,6-Dinitrotoluene	492	53.2	107	ug/kg wet	4	533	---	92	46-124%	---	---	
Benzoic acid	741	668	668	ug/kg wet	4	1070	---	69	10-140%	---	---	
Benzyl alcohol	402	26.7	53.2	ug/kg wet	4	533	---	75	29-122%	---	---	
Isophorone	467	13.3	26.7	ug/kg wet	4	533	---	88	30-122%	---	---	
Azobenzene (1,2-DPH)	528	13.3	26.7	ug/kg wet	4	533	---	99	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	466	133	267	ug/kg wet	4	533	---	87	61-121%	---	---	
3,3'-Dichlorobenzidine	2380	107	213	ug/kg wet	4	1070	---	224	22-121%	---	---	Q-29
1,2-Dinitrobenzene	482	133	267	ug/kg wet	4	533	---	90	44-120%	---	---	
1,3-Dinitrobenzene	467	133	267	ug/kg wet	4	533	---	88	43-127%	---	---	
1,4-Dinitrobenzene	428	133	267	ug/kg wet	4	533	---	80	37-132%	---	---	
Pyridine	360	26.7	53.2	ug/kg wet	4	533	---	67	10-120%	---	---	
1,2-Dichlorobenzene	461	13.3	26.7	ug/kg wet	4	533	---	86	33-120%	---	---	
1,3-Dichlorobenzene	451	13.3	26.7	ug/kg wet	4	533	---	85	30-120%	---	---	
1,4-Dichlorobenzene	451	13.3	26.7	ug/kg wet	4	533	---	85	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 87 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>94 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>86 %</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>93 %</i>		<i>39-132 %</i>		<i>"</i>						

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ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22H0028 - EPA 3546							Solid					
Duplicate (22H0028-DUP1)			Prepared: 08/01/22 10:26 Analyzed: 08/01/22 19:05									
QC Source Sample: FC-071922-1952 (A2G0558-01)												
EPA 8270E												
Acenaphthene	167000	1650	3320	ug/kg dry	200	---	146000	---	---	14	30%	
Acenaphthylene	ND	14900	14900	ug/kg dry	200	---	ND	---	---	---	30%	R-02
Anthracene	127000	1650	3320	ug/kg dry	200	---	111000	---	---	13	30%	
Benz(a)anthracene	71300	1650	3320	ug/kg dry	200	---	61300	---	---	15	30%	
Benzo(a)pyrene	79500	2480	4970	ug/kg dry	200	---	69400	---	---	13	30%	
Benzo(b)fluoranthene	63700	2480	4970	ug/kg dry	200	---	55300	---	---	14	30%	
Benzo(k)fluoranthene	21700	2480	4970	ug/kg dry	200	---	16800	---	---	25	30%	M-05
Benzo(g,h,i)perylene	50900	1650	3320	ug/kg dry	200	---	44200	---	---	14	30%	
Chrysene	93000	1650	3320	ug/kg dry	200	---	79100	---	---	16	30%	
Dibenz(a,h)anthracene	5310	1650	3320	ug/kg dry	200	---	4450	---	---	17	30%	
Fluoranthene	310000	1650	3320	ug/kg dry	200	---	274000	---	---	12	30%	
Fluorene	107000	1650	3320	ug/kg dry	200	---	93000	---	---	14	30%	
Indeno(1,2,3-cd)pyrene	43200	1650	3320	ug/kg dry	200	---	37900	---	---	13	30%	
1-Methylnaphthalene	64400	3320	6620	ug/kg dry	200	---	52400	---	---	21	30%	
2-Methylnaphthalene	75700	3320	6620	ug/kg dry	200	---	59200	---	---	24	30%	
Naphthalene	10800	3320	6620	ug/kg dry	200	---	7360	---	---	38	30%	Q-04
Phenanthrene	598000	1650	3320	ug/kg dry	200	---	540000	---	---	10	30%	
Pyrene	368000	1650	3320	ug/kg dry	200	---	326000	---	---	12	30%	
Carbazole	5100	2480	4970	ug/kg dry	200	---	4340	---	---	16	30%	
Dibenzofuran	13100	1650	3320	ug/kg dry	200	---	11200	---	---	15	30%	
2-Chlorophenol	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	41400	82800	ug/kg dry	200	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	41400	82800	ug/kg dry	200	---	ND	---	---	---	30%	
2-Methylphenol	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
2-Nitrophenol	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	
4-Nitrophenol	ND	33200	33200	ug/kg dry	200	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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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 22H0028 - EPA 3546						Solid						
Duplicate (22H0028-DUP1)			Prepared: 08/01/22 10:26 Analyzed: 08/01/22 19:05									
QC Source Sample: FC-071922-1952 (A2G0558-01)												
Phenol	ND	3320	6620	ug/kg dry	200	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
Nitrobenzene	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	24800	49700	ug/kg dry	200	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	
Diethylphthalate	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	
Dimethylphthalate	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	16100	16100	ug/kg dry	200	---	ND	---	---	---	30%	R-02
Bis(2-Chloroethoxy) methane	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	1650	3320	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
Hexachloroethane	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	1650	3320	ug/kg dry	200	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
Aniline	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
4-Chloroaniline	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
2-Nitroaniline	ND	33200	66200	ug/kg dry	200	---	ND	---	---	---	30%	
3-Nitroaniline	ND	33200	66200	ug/kg dry	200	---	ND	---	---	---	30%	
4-Nitroaniline	ND	33200	66200	ug/kg dry	200	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	16500	33200	ug/kg dry	200	---	ND	---	---	---	30%	

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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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22H0028 - EPA 3546						Solid						
Duplicate (22H0028-DUP1)			Prepared: 08/01/22 10:26 Analyzed: 08/01/22 19:05									
QC Source Sample: FC-071922-1952 (A2G0558-01)												
Benzoic acid	ND	207000	414000	ug/kg dry	200	---	ND	---	---	---	30%	
Benzyl alcohol	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
Isophorone	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	41400	82800	ug/kg dry	200	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	33200	66200	ug/kg dry	200	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	41400	82800	ug/kg dry	200	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	41400	82800	ug/kg dry	200	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	41400	82800	ug/kg dry	200	---	ND	---	---	---	30%	
Pyridine	ND	8280	16500	ug/kg dry	200	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	4140	8280	ug/kg dry	200	---	ND	---	---	---	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>												S-05
<i>2-Fluorobiphenyl (Surr)</i>												S-05
<i>Phenol-d6 (Surr)</i>												S-05
<i>p-Terphenyl-d14 (Surr)</i>												S-05
<i>2-Fluorophenol (Surr)</i>												S-05
<i>2,4,6-Tribromophenol (Surr)</i>												S-05

Matrix Spike (22H0028-MS1)			Prepared: 08/01/22 10:26 Analyzed: 08/02/22 12:25									
QC Source Sample: Non-SDG (A2G0730-03RE1)												
EPA 8270E												
Acenaphthene	350	5.13	10.3	ug/kg wet	4	514	ND	68	40-123%	---	---	
Acenaphthylene	357	5.13	10.3	ug/kg wet	4	514	ND	70	32-132%	---	---	
Anthracene	385	5.13	10.3	ug/kg wet	4	514	ND	75	47-123%	---	---	
Benz(a)anthracene	370	5.13	10.3	ug/kg wet	4	514	ND	72	49-126%	---	---	
Benzo(a)pyrene	404	7.71	15.4	ug/kg wet	4	514	ND	79	45-129%	---	---	
Benzo(b)fluoranthene	397	7.71	15.4	ug/kg wet	4	514	ND	77	45-132%	---	---	
Benzo(k)fluoranthene	386	7.71	15.4	ug/kg wet	4	514	ND	75	47-132%	---	---	
Benzo(g,h,i)perylene	381	5.13	10.3	ug/kg wet	4	514	ND	74	43-134%	---	---	
Chrysene	367	5.13	10.3	ug/kg wet	4	514	ND	71	50-124%	---	---	
Dibenz(a,h)anthracene	385	5.13	10.3	ug/kg wet	4	514	ND	75	45-134%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
---	---	---

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 22H0028 - EPA 3546						Solid						
Matrix Spike (22H0028-MS1)						Prepared: 08/01/22 10:26 Analyzed: 08/02/22 12:25						
QC Source Sample: Non-SDG (A2G0730-03RE1)												
Fluoranthene	380	5.13	10.3	ug/kg wet	4	514	ND	74	50-127%	---	---	
Fluorene	341	5.13	10.3	ug/kg wet	4	514	ND	66	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	376	5.13	10.3	ug/kg wet	4	514	ND	73	45-133%	---	---	
1-Methylnaphthalene	336	10.3	20.5	ug/kg wet	4	514	ND	65	40-120%	---	---	
2-Methylnaphthalene	345	10.3	20.5	ug/kg wet	4	514	ND	67	38-122%	---	---	
Naphthalene	322	10.3	20.5	ug/kg wet	4	514	ND	63	35-123%	---	---	
Phenanthrene	356	5.13	10.3	ug/kg wet	4	514	ND	69	50-121%	---	---	
Pyrene	384	5.13	10.3	ug/kg wet	4	514	ND	75	47-127%	---	---	
Carbazole	372	7.71	15.4	ug/kg wet	4	514	ND	72	50-123%	---	---	
Dibenzofuran	349	5.13	10.3	ug/kg wet	4	514	ND	68	44-120%	---	---	
2-Chlorophenol	334	25.7	51.3	ug/kg wet	4	514	ND	65	34-121%	---	---	
4-Chloro-3-methylphenol	382	51.3	103	ug/kg wet	4	514	ND	74	45-122%	---	---	
2,4-Dichlorophenol	352	25.7	51.3	ug/kg wet	4	514	ND	69	40-122%	---	---	
2,4-Dimethylphenol	408	25.7	51.3	ug/kg wet	4	514	ND	79	30-127%	---	---	
2,4-Dinitrophenol	ND	128	257	ug/kg wet	4	514	ND		10-137%	---	---	Q-01
4,6-Dinitro-2-methylphenol	ND	128	257	ug/kg wet	4	514	ND		29-132%	---	---	Q-01
2-Methylphenol	372	12.8	25.7	ug/kg wet	4	514	ND	72	32-122%	---	---	
3+4-Methylphenol(s)	631	12.8	25.7	ug/kg wet	4	514	343	56	34-120%	---	---	
2-Nitrophenol	317	51.3	103	ug/kg wet	4	514	ND	62	36-123%	---	---	Q-41
4-Nitrophenol	315	51.3	103	ug/kg wet	4	514	ND	61	30-132%	---	---	
Pentachlorophenol (PCP)	305	51.3	103	ug/kg wet	4	514	ND	59	25-133%	---	---	
Phenol	338	10.3	20.5	ug/kg wet	4	514	15.5	63	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	348	25.7	51.3	ug/kg wet	4	514	ND	68	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	317	25.7	51.3	ug/kg wet	4	514	ND	62	40-120%	---	---	
2,4,5-Trichlorophenol	374	25.7	51.3	ug/kg wet	4	514	ND	73	41-124%	---	---	
Nitrobenzene	333	51.3	103	ug/kg wet	4	514	ND	65	34-122%	---	---	
2,4,6-Trichlorophenol	347	25.7	51.3	ug/kg wet	4	514	ND	68	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	427	77.1	154	ug/kg wet	4	514	ND	83	51-133%	---	---	
Butyl benzyl phthalate	401	51.3	103	ug/kg wet	4	514	ND	78	48-132%	---	---	
Diethylphthalate	340	51.3	103	ug/kg wet	4	514	ND	66	50-124%	---	---	
Dimethylphthalate	356	51.3	103	ug/kg wet	4	514	ND	69	48-124%	---	---	
Di-n-butylphthalate	424	51.3	103	ug/kg wet	4	514	ND	82	51-128%	---	---	
Di-n-octyl phthalate	448	51.3	103	ug/kg wet	4	514	ND	87	45-140%	---	---	

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Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A2G0558 - 08 25 22 0848

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 22H0028 - EPA 3546						Solid						
Matrix Spike (22H0028-MS1)						Prepared: 08/01/22 10:26 Analyzed: 08/02/22 12:25						
QC Source Sample: Non-SDG (A2G0730-03RE1)												
N-Nitrosodimethylamine	289	12.8	25.7	ug/kg wet	4	514	ND	56	23-120%	---	---	
N-Nitroso-di-n-propylamine	365	12.8	25.7	ug/kg wet	4	514	ND	71	36-120%	---	---	
N-Nitrosodiphenylamine	387	12.8	25.7	ug/kg wet	4	514	ND	75	38-127%	---	---	
Bis(2-Chloroethoxy) methane	352	12.8	25.7	ug/kg wet	4	514	ND	69	36-121%	---	---	
Bis(2-Chloroethyl) ether	322	12.8	25.7	ug/kg wet	4	514	ND	63	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	332	12.8	25.7	ug/kg wet	4	514	ND	65	39-120%	---	---	
Hexachlorobenzene	360	5.13	10.3	ug/kg wet	4	514	ND	70	45-122%	---	---	
Hexachlorobutadiene	299	12.8	25.7	ug/kg wet	4	514	ND	58	32-123%	---	---	
Hexachlorocyclopentadiene	106	25.7	51.3	ug/kg wet	4	514	ND	21	10-140%	---	---	
Hexachloroethane	258	12.8	25.7	ug/kg wet	4	514	ND	50	28-120%	---	---	
2-Chloronaphthalene	348	5.13	10.3	ug/kg wet	4	514	ND	68	41-120%	---	---	
1,2,4-Trichlorobenzene	311	12.8	25.7	ug/kg wet	4	514	ND	61	34-120%	---	---	
4-Bromophenyl phenyl ether	369	12.8	25.7	ug/kg wet	4	514	ND	72	46-124%	---	---	
4-Chlorophenyl phenyl ether	356	12.8	25.7	ug/kg wet	4	514	ND	69	45-121%	---	---	
Aniline	241	25.7	51.3	ug/kg wet	4	514	ND	47	10-120%	---	---	
4-Chloroaniline	282	12.8	25.7	ug/kg wet	4	514	ND	55	17-120%	---	---	
2-Nitroaniline	476	103	205	ug/kg wet	4	514	ND	93	44-127%	---	---	
3-Nitroaniline	328	103	205	ug/kg wet	4	514	ND	64	33-120%	---	---	
4-Nitroaniline	510	103	205	ug/kg wet	4	514	ND	99	51-125%	---	---	
2,4-Dinitrotoluene	350	51.3	103	ug/kg wet	4	514	ND	68	48-126%	---	---	
2,6-Dinitrotoluene	361	51.3	103	ug/kg wet	4	514	ND	70	46-124%	---	---	
Benzoic acid	ND	644	1280	ug/kg wet	4	1030	ND		10-140%	---	---	Q-01
Benzyl alcohol	316	25.7	51.3	ug/kg wet	4	514	ND	62	29-122%	---	---	
Isophorone	342	12.8	25.7	ug/kg wet	4	514	ND	66	30-122%	---	---	
Azobenzene (1,2-DPH)	394	12.8	25.7	ug/kg wet	4	514	ND	77	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	412	128	257	ug/kg wet	4	514	ND	80	61-121%	---	---	
3,3'-Dichlorobenzidine	2200	103	205	ug/kg wet	4	1030	ND	214	22-121%	---	---	Q-01
1,2-Dinitrobenzene	259	128	257	ug/kg wet	4	514	ND	50	44-120%	---	---	
1,3-Dinitrobenzene	316	128	257	ug/kg wet	4	514	ND	61	43-127%	---	---	
1,4-Dinitrobenzene	187	128	257	ug/kg wet	4	514	ND	36	37-132%	---	---	Q-01, J
Pyridine	257	25.7	51.3	ug/kg wet	4	514	ND	50	10-120%	---	---	
1,2-Dichlorobenzene	301	12.8	25.7	ug/kg wet	4	514	ND	59	33-120%	---	---	
1,3-Dichlorobenzene	287	12.8	25.7	ug/kg wet	4	514	ND	56	30-120%	---	---	

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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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22H0028 - EPA 3546						Solid						
Matrix Spike (22H0028-MS1)						Prepared: 08/01/22 10:26 Analyzed: 08/02/22 12:25						
QC Source Sample: Non-SDG (A2G0730-03RE1)												
1,4-Dichlorobenzene	300	12.8	25.7	ug/kg wet	4	514	ND	58	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 66 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>46 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>68 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>52 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>62 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>80 %</i>		<i>39-132 %</i>		<i>"</i>						

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0896 - EPA 3051A						Solid						
Blank (22G0896-BLK1)			Prepared: 07/27/22 09:33 Analyzed: 07/27/22 15:16									
<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 (22G0896-BS1)			Prepared: 07/27/22 09:33 Analyzed: 07/27/22 15:20									
<u>EPA 6020B</u>												
Arsenic	47000	500	1000	ug/kg wet	10	50000	---	94	80-120%	---	---	
Barium	48100	500	1000	ug/kg wet	10	50000	---	96	80-120%	---	---	
Cadmium	48500	100	200	ug/kg wet	10	50000	---	97	80-120%	---	---	
Chromium	47600	500	1000	ug/kg wet	10	50000	---	95	80-120%	---	---	
Lead	49400	100	200	ug/kg wet	10	50000	---	99	80-120%	---	---	
Mercury	947	40.0	80.0	ug/kg wet	10	1000	---	95	80-120%	---	---	
Selenium	23300	500	1000	ug/kg wet	10	25000	---	93	80-120%	---	---	
Silver	24400	100	200	ug/kg wet	10	25000	---	98	80-120%	---	---	
<hr/>												
Duplicate (22G0896-DUP1)			Prepared: 07/27/22 09:33 Analyzed: 07/27/22 16:18									
<u>QC Source Sample: Non-SDG (A2G0730-01)</u>												
Arsenic	1620	549	1100	ug/kg wet	10	---	1490	---	---	8	20%	
Barium	75600	549	1100	ug/kg wet	10	---	75000	---	---	0.8	20%	
Cadmium	1020	110	220	ug/kg wet	10	---	1060	---	---	3	20%	
Chromium	33100	549	1100	ug/kg wet	10	---	30300	---	---	9	20%	
Lead	16500	110	220	ug/kg wet	10	---	17500	---	---	6	20%	
Mercury	73.4	44.0	87.9	ug/kg wet	10	---	80.1	---	---	9	20%	
Selenium	ND	549	1100	ug/kg wet	10	---	ND	---	---	---	20%	
Silver	318	110	220	ug/kg wet	10	---	332	---	---	4	20%	
<hr/>												
Matrix Spike (22G0896-MS1)			Prepared: 07/27/22 09:33 Analyzed: 07/27/22 16:23									

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0896 - EPA 3051A						Solid						
Matrix Spike (22G0896-MS1)						Prepared: 07/27/22 09:33 Analyzed: 07/27/22 16:23						
QC Source Sample: Non-SDG (A2G0730-01)												
EPA 6020B												
Arsenic	47900	512	1020	ug/kg wet	10	51200	1490	91	75-125%	---	---	
Barium	132000	512	1020	ug/kg wet	10	51200	75000	111	75-125%	---	---	
Cadmium	50800	102	205	ug/kg wet	10	51200	1060	97	75-125%	---	---	
Chromium	85500	512	1020	ug/kg wet	10	51200	30300	108	75-125%	---	---	
Lead	65200	102	205	ug/kg wet	10	51200	17500	93	75-125%	---	---	
Mercury	1000	41.0	82.0	ug/kg wet	10	1020	80.1	90	75-125%	---	---	
Selenium	23400	512	1020	ug/kg wet	10	25600	ND	91	75-125%	---	---	
Silver	25300	102	205	ug/kg wet	10	25600	332	97	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 22H0098 - EPA 1311/3015A												
Soil												
Blank (22H0098-BLK1)												
Prepared: 08/02/22 13:57 Analyzed: 08/02/22 22:23												
<u>1311/6020B</u>												
Arsenic	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Barium	ND	---	5.00	mg/L	10	---	---	---	---	---	---	TCLPa
Cadmium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Chromium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Lead	ND	---	0.0500	mg/L	10	---	---	---	---	---	---	TCLPa
Mercury	ND	---	0.00700	mg/L	10	---	---	---	---	---	---	TCLPa
Selenium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Silver	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
LCS (22H0098-BS1)												
Prepared: 08/02/22 13:57 Analyzed: 08/02/22 22:29												
<u>1311/6020B</u>												
Arsenic	4.64	---	0.100	mg/L	10	5.00	---	93	80-120%	---	---	TCLPa
Barium	10.1	---	5.00	mg/L	10	10.0	---	101	80-120%	---	---	TCLPa
Cadmium	0.926	---	0.100	mg/L	10	1.00	---	93	80-120%	---	---	TCLPa
Chromium	5.05	---	0.100	mg/L	10	5.00	---	101	80-120%	---	---	TCLPa
Lead	4.69	---	0.0500	mg/L	10	5.00	---	94	80-120%	---	---	TCLPa
Mercury	0.0926	---	0.00700	mg/L	10	0.100	---	93	80-120%	---	---	TCLPa
Selenium	0.959	---	0.100	mg/L	10	1.00	---	96	80-120%	---	---	TCLPa
Silver	0.967	---	0.100	mg/L	10	1.00	---	97	80-120%	---	---	TCLPa
Matrix Spike (22H0098-MS1)												
Prepared: 08/02/22 13:57 Analyzed: 08/02/22 22:39												
<u>QC Source Sample: FC-071922-1952 (A2G0558-01)</u>												
<u>1311/6020B</u>												
Arsenic	4.50	---	0.100	mg/L	10	5.00	ND	90	50-150%	---	---	
Barium	9.84	---	5.00	mg/L	10	10.0	ND	98	50-150%	---	---	
Cadmium	0.891	---	0.100	mg/L	10	1.00	ND	89	50-150%	---	---	
Chromium	4.85	---	0.100	mg/L	10	5.00	ND	97	50-150%	---	---	
Lead	4.42	---	0.0500	mg/L	10	5.00	ND	88	50-150%	---	---	
Mercury	0.0883	---	0.00700	mg/L	10	0.100	ND	88	50-150%	---	---	
Selenium	0.942	---	0.100	mg/L	10	1.00	ND	94	50-150%	---	---	
Silver	0.886	---	0.100	mg/L	10	1.00	ND	89	50-150%	---	---	
Matrix Spike (22H0098-MS2)												
Prepared: 08/02/22 13:57 Analyzed: 08/02/22 22:50												

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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 22H0098 - EPA 1311/3015A												
Soil												
Matrix Spike (22H0098-MS2) Prepared: 08/02/22 13:57 Analyzed: 08/02/22 22:50												
QC Source Sample: Non-SDG (A2G0559-01)												
1311/6020B												
Arsenic	4.57	---	0.100	mg/L	10	5.00	ND	91	50-150%	---	---	
Barium	10.3	---	5.00	mg/L	10	10.0	ND	103	50-150%	---	---	
Cadmium	0.923	---	0.100	mg/L	10	1.00	ND	92	50-150%	---	---	
Chromium	4.98	---	0.100	mg/L	10	5.00	ND	100	50-150%	---	---	
Lead	4.66	---	0.0500	mg/L	10	5.00	ND	93	50-150%	---	---	
Mercury	0.0930	---	0.00700	mg/L	10	0.100	ND	93	50-150%	---	---	
Selenium	0.947	---	0.100	mg/L	10	1.00	ND	95	50-150%	---	---	
Silver	0.936	---	0.100	mg/L	10	1.00	ND	94	50-150%	---	---	

Matrix Spike (22H0098-MS3) Prepared: 08/02/22 13:57 Analyzed: 08/02/22 23:11												
QC Source Sample: Non-SDG (A2G0778-01)												
1311/6020B												
Arsenic	4.77	---	0.100	mg/L	10	5.00	ND	95	50-150%	---	---	
Barium	10.8	---	5.00	mg/L	10	10.0	ND	108	50-150%	---	---	
Cadmium	0.946	---	0.100	mg/L	10	1.00	ND	95	50-150%	---	---	
Chromium	5.12	---	0.100	mg/L	10	5.00	ND	102	50-150%	---	---	
Lead	4.51	---	0.0500	mg/L	10	5.00	ND	90	50-150%	---	---	
Mercury	0.0911	---	0.00700	mg/L	10	0.100	ND	91	50-150%	---	---	
Selenium	0.942	---	0.100	mg/L	10	1.00	ND	94	50-150%	---	---	
Silver	0.978	---	0.100	mg/L	10	1.00	ND	98	50-150%	---	---	

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Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, NY 14305	Project: Gasco -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 22G0718 - ASTM D7511-12mod (S)						Soil						
Blank (22G0718-BLK1)						Prepared: 07/22/22 08:34 Analyzed: 07/22/22 12:15						
<u>D7511-12</u>												
Total Cyanide	ND	50.0	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (22G0718-BS1)						Prepared: 07/22/22 08:34 Analyzed: 07/22/22 12:17						
<u>D7511-12</u>												
Total Cyanide	419	50.0	100	ug/kg wet	1	400	---	105	84-116%	---	---	
Matrix Spike (22G0718-MS3)						Prepared: 07/22/22 08:34 Analyzed: 07/22/22 13:56						
<u>QC Source Sample: Non-SDG (A2G0563-02RE2)</u>												
<u>D7511-12</u>												
Total Cyanide	9280	836	1670	ug/kg dry	10	334	10700	-424	64-136%	---	---	Q-03, Q-16
Matrix Spike Dup (22G0718-MSD3)						Prepared: 07/22/22 08:34 Analyzed: 07/22/22 13:58						
<u>QC Source Sample: Non-SDG (A2G0563-02RE2)</u>												
Total Cyanide	10200	838	1680	ug/kg dry	10	335	10700	-146	64-136%	10	47%	Q-03, 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 22G0677 - Total Solids (Dry Weight)						Soil						
Duplicate (22G0677-DUP1)			Prepared: 07/21/22 13:23 Analyzed: 07/22/22 07:21									
<u>QC Source Sample: Non-SDG (A2G0438-03)</u>												
% Solids	75.3	---	1.00	%	1	---	75.9	---	---	0.8	10%	
Duplicate (22G0677-DUP2)			Prepared: 07/21/22 13:23 Analyzed: 07/22/22 07:21									
<u>QC Source Sample: Non-SDG (A2G0438-06)</u>												
% Solids	73.6	---	1.00	%	1	---	74.2	---	---	0.8	10%	
Duplicate (22G0677-DUP3)			Prepared: 07/21/22 13:23 Analyzed: 07/22/22 07:21									
<u>QC Source Sample: Non-SDG (A2G0438-14)</u>												
% Solids	74.8	---	1.00	%	1	---	74.6	---	---	0.3	10%	
Duplicate (22G0677-DUP4)			Prepared: 07/21/22 13:23 Analyzed: 07/22/22 07:21									
<u>QC Source Sample: Non-SDG (A2G0438-17)</u>												
% Solids	69.7	---	1.00	%	1	---	70.2	---	---	0.7	10%	
Duplicate (22G0677-DUP5)			Prepared: 07/21/22 19:34 Analyzed: 07/22/22 07:21									
<u>QC Source Sample: Non-SDG (A2G0612-01)</u>												
% Solids	96.3	---	1.00	%	1	---	96.4	---	---	0.006	10%	
Duplicate (22G0677-DUP6)			Prepared: 07/21/22 19:34 Analyzed: 07/22/22 07:21									
<u>QC Source Sample: Non-SDG (A2G0612-02)</u>												
% Solids	96.3	---	1.00	%	1	---	96.1	---	---	0.2	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: 22G0729</u>							
A2G0558-01	Solid	NWTPH-Dx	07/19/22 04:15	07/22/22 10:00	10.25g/5mL	10g/5mL	0.98

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: 22G0857</u>							
A2G0558-01RE1	Solid	NWTPH-Gx (MS)	07/19/22 04:15	07/20/22 13:35	4.6g/5mL	5g/5mL	1.09

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: 22G0857</u>							
A2G0558-01RE1	Solid	5035A/8260D	07/19/22 04:15	07/20/22 13:35	4.6g/5mL	5g/5mL	1.09

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: 22G0954</u>							
A2G0558-01	Solid	1311/8260D	07/19/22 04:15	07/28/22 10:26	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: 22H0028</u>							
A2G0558-01	Solid	EPA 8270E	07/19/22 04:15	08/01/22 10:26	10.66g/2mL	15g/2mL	1.41

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: 22G0896</u>							
A2G0558-01	Solid	EPA 6020B	07/19/22 04:15	07/27/22 09:33	0.473g/50mL	0.5g/50mL	1.06

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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

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
<u>Batch: 22H0098</u>							
A2G0558-01	Solid	1311/6020B	07/19/22 04:15	08/02/22 13:57	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
<u>Batch: 22G0718</u>							
A2G0558-01	Solid	D7511-12	07/19/22 04:15	07/22/22 08:34	2.5825g/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
<u>Batch: 22G0677</u>							
A2G0558-01	Solid	EPA 8000D	07/19/22 04:15	07/21/22 13:23			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
<u>Batch: 22H0052</u>							
A2G0558-01	Solid	EPA 1311	07/19/22 04:15	08/01/22 17:09	99.9g/2002g	100g/2000g	NA

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Niagara Falls, NY 14305

Project: Gasco -- Filtercake
Project Number: 111323
Project Manager: Chip Byrd

Report ID:
A2G0558 - 08 25 22 0848

QUALIFIER DEFINITIONS

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

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- AMEND The Result, Reporting Level, Recovery and/or RPD has changed. Note: Batch QC marked as AMENDED may or may not have been issued prior to the change. Case Narrative included if client data is affected.
- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- ICV-01 Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- ICV-02 Estimated Result. Initial Calibration Verification (ICV) failed low.
- 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-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-17 RPD between original and duplicate sample is outside of established control limits.
- Q-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-30 Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
- Q-37 Sample is non-homogenous. Sample results are less than MRL and duplicate results have hits greater than the MRL. See Duplicate results.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-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 +10%. 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 +13%. 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 +15%. The results are reported as Estimated Values.
- Q-54c Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54d Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +7%. The results are reported as Estimated Values.

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- Q-54e** 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-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -10%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -12%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -14%. The results are reported as Estimated Values.
- Q-54i** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -16%. The results are reported as Estimated Values.
- Q-54j** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -19%. The results are reported as Estimated Values.
- Q-54k** 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-54l** 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-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-03** Sample re-extract, or the analysis of an associated Batch QC sample, confirms surrogate failure due to sample matrix effect.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 22G0836.
- TCLPa** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 22H0052.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.
- X** See Case Narrative.

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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 -- Filtercake Project Number: 111323 Project Manager: Chip Byrd	Report ID: A2G0558 - 08 25 22 0848
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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 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 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 -- Filtercake), and Report ID (A2G0558 - 08 25 22 0848).

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

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

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ANALYTICAL REPORT

Sevenson Environmental Services, Inc.	Project: Gasco -- Filtercake	Report ID: A2G0558 - 08 25 22 0848
2749 Lockport Road	Project Number: 111323	
Niagara Falls, NY 14305	Project Manager: Chip Byrd	

APEX LABS 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333 Company: Sevenson Environmental Services, Inc. Address: 2749 Lockport Road, Niagara Falls, NY 14305 Sampled by: <i>Emily Schlecht</i>	CHAIN OF CUSTODY Lab # <i>A2G0558</i> of _____ COC _____																													
	Project Mgr: <i>Chip Byrd</i> Project Name: <i>Gasco -- Filtercake</i> Project # <i>111323</i> Phone: (716) 583-2754 Fax: _____ E-mail: <i>wbyrd@sevenson.com</i>																													
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APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services Inc Element WO#: A2G0558

Project/Project #: Filtercake/111323

Delivery Info:
 Date/time received: 7/20/22 @ 12:10 By: AM
 Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 7/20/22 @ 13:00 By: AM
 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>3.9</u>	<u>5.8</u>	<u>4.2</u>	<u>3.9</u>	<u>5.2</u>		
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>		
Ice type: (Gel/Real/Other)	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>	<u>Gel</u>		
Condition:	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>	<u>Good</u>		

Cooler out of temp? (Y/N) Possible reason why: _____
 Green dots applied to out of temperature samples? Yes No
 Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 7/20/22 @ 13:20 By: AM
 All samples intact? Yes No Comments: 2AM the suffix (No) 2AM 7/20

Bottle labels/COCs agree? Yes No Comments: Container reads #1452 has no 2AM the suffix prefix

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: 2AM Witness: DBS Cooler Inspected by: 2AM

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