



Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14305
Phone 716.284.0431
Fax 716.284.1796

July 17, 2023

Mr. Mark Krening
Waste Management, Inc.
7227 N.E. 55th Avenue
Portland, OR 97218

Re: NW Natural Source Control Groundwater Treatment Facility – Siltronic Pretreatment Plant Purge Water and Decontamination Tank (T-103. #16) Residuals.

Dear Mr. Krening:

On behalf of NW Natural, Sevenson Environmental Services, Inc. (SES) has prepared the attached waste disposal package for Waste Management, Inc. review and acceptance. This profile package, inclusive of analytical testing results, is for the disposal of residual materials consisting of sands, silts, oily solids, and other media that have settled out from contaminated groundwater or sampling decontamination water from site cleanup activities. These solids accumulate within the Purge Water and Decontamination Tank (T-103) that is a plumbed component to the Siltronic Pretreatment Plant.

The Siltronic Pre-Treatment Facility is designed to remove spent trichloroethene (TCE) and its degradation products from the contaminated groundwater before it is plumbed to the Main Groundwater Treatment Plant for the NW Natural Gasco site for processing. Spent TCE and its degradation products are considered by the Oregon DEQ to be RCRA F002 listed hazardous waste constituents. Other contamination within the water discharged to this tank includes Manufactured Gas Plant (MGP)-derived constituents (e.g., petroleum constituents).

Based on the treatment of the spent TCE and its degradation products within the Siltronic Pre-Treatment Facility, the solids within this Purge Water and Decontamination Tank (T-103) are considered to be residues from the treatment of an F002 RCRA listed waste at the time of tank cleanout.

NW Natural is presumptively managing the residual materials from the Siltronic Pretreatment Plant as RCRA F002-listed hazardous waste. NW Natural understands the “derived-from” rule to require presumptive management of these residuals as RCRA F002-listed hazardous waste.

Sample data are attached to the profile from testing of the solid material accumulated within the water discharge box (T-103) located at Siltronic pretreatment plant. The sample of material within this box was submitted to Apex Laboratories, LLC on June 30, 2023 for analysis of: free liquids, total metals, leachable metals (toxicity characteristic leaching procedure-TCLP), total petroleum hydrocarbons (TPH), total cyanide, total volatile organic compounds (VOCs) and TCLP VOCs, and semi-volatile organic compounds (SVOCs).

Attached please find the profile for this waste stream (Profile OR344464). Also attached please find the Apex Laboratory analytical report (A3F1688) dated July 10, 2023 documenting the chemistry of the residual treatment materials, and Table 1, a summary of those testing results. The July 2023 analytical results confirm that the residuals in the drop box conform to the description included within previously approved profile OR344464, LDR Form, and Constituents Form.

As indicated on the laboratory testing and as described in the attached profile (OR344464), it is requested that Waste Management Inc. approve disposal of these contaminated treatment residuals as F002 hazardous waste at the Chemical Waste Management (CWM) RCRA Subtitle C permitted landfill in Arlington, Oregon. NW Natural anticipates the generation of similar quantities of accumulated residuals on a frequency of approximately three times per year. Prior to arranging for disposal of future accumulations of residuals from the Purge Water and Decontamination Tank (T-103) under Profile OR344464, sampling and characterization will be completed identical to that described herein in order to confirm the residuals match the profile in-place at that time. These data will be provided for Waste Management's information and use prior to disposal.

In response to the EZ Profile Addendum #D.7, requesting documentation regarding the State-mandated cleanup, NW Natural's Voluntary Agreement with DEQ, no. WMCVC-NWR-94-13, dated August 8, 1994, as amended July 19, 2006 has been previously provided to Waste Management.

Please contact me if you have any questions.

Thank You,



William Byrd
Sevenson Environmental Services

Cc: Robert Wyatt (NW Natural), Kathryn Williams (NW Natural), Patty Dost (Pearl Legal Group), Ryan Barth (Anchor QEA), Rob Ede (Hahn and Associates), Tim Stone (Anchor QEA), Jen Mott (Anchor QEA), Mike Crystal (Sevenson Environmental Services), Joe Burke (Sevenson Environmental Services), Wesley Thomas (ODEQ), Terence Driscoll (Aponowich, Driscoll & Associates, Inc.)

Enclosures:

Table 1 – Purge Water and Decontamination Tank (T-103) #16
Waste Management Disposal Profile # OR344464
OR344464 Approval
Apex Laboratory Report #A3F1688

Table 1: Purge Water Tank T-103

Sample: (Number)		16		
Sample ID		T103-063023-16		
LAB ID		A3F1688-01		
	EPA Toxicity Characteristic (TC) Regulatory Threshold Values		Results	Qualifier
	20x EPA TC values in ug/kg*	Actual EPA TC values in ug/L		
Diesel (ug/kg dry)			7,590,000	F-17
Oil (ug/kg dry)			<3260000	
Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx (ug/kg dry)			1,440,000	F-03
Volatile Organic Compounds by EPA 8260D			ug/kg dry	
Acetone			<2820	
Acrylonitrile			<282	
Benzene	10,000	500	3830	
Bromobenzene			<70.5	
Bromochloromethane			<141	
Bromodichloromethane			<141	
Bromoform			<282	
Bromomethane			<2820	
2-Butanone (MEK)	4,000,000	200,000	<1410	
n-Butylbenzene			<141	
sec-Butylbenzene			161	J
tert-Butylbenzene			<141	
Carbon disulfide			<1410	
Carbon tetrachloride	10,000	500	<141	
Chlorobenzene	2,000,000	100,000	<70.5	
Chloroethane			<1410	
Chloroform	120,000	6,000	1180	
Chloromethane			<705	
2-Chlorotoluene			<141	
4-Chlorotoluene			<141	
Dibromochloromethane			<282	
1,2-Dibromo-3-chloropropane			<705	
1,2-Dibromoethane (EDB)			<141	
Dibromomethane			<141	
1,2-Dichlorobenzene			90.2	J
1,3-Dichlorobenzene			<70.5	
1,4-Dichlorobenzene	150,000	7,500	<70.5	
Dichlorodifluoromethane			<282	
1,1-Dichloroethane			<70.5	
1,2-Dichloroethane (EDC)	10,000	500	<70.5	
1,1-Dichloroethene	14,000	700	<70.5	
cis-1,2-Dichloroethene			138	J
trans-1,2-Dichloroethene			<70.5	
1,2-Dichloropropane			<70.5	
1,3-Dichloropropane			<141	
2,2-Dichloropropane			<141	
1,1-Dichloropropene			<141	
cis-1,3-Dichloropropene			<141	
trans-1,3-Dichloropropene			<141	
Ethylbenzene			5460	
Hexachlorobutadiene	10,000	500	<282	
2-Hexanone			<1410	
Isopropylbenzene			460	
4-Isopropyltoluene			257	J
Methylene chloride			<1410	
4-Methyl-2-pentanone (MiBK)			<1410	
Methyl tert-butyl ether (MTBE)			<141	
Naphthalene			321,000	
n-Propylbenzene			209	
Styrene			<141	
1,1,1,2-Tetrachloroethane			<70.5	
1,1,2,2-Tetrachloroethane			<141	
Tetrachloroethene (PCE)	14,000	700	<70.5	
Toluene			1,390	
1,2,3-Trichlorobenzene			<705	
1,2,4-Trichlorobenzene			<705	
1,1,1-Trichloroethane			<70.5	
1,1,2-Trichloroethane			<70.5	
Trichloroethene (TCE)	10,000	500	<70.5	
Trichlorofluoromethane			<282	
1,2,3-Trichloropropane			<141	
1,2,4-Trimethylbenzene			3090	

Table 1: Purge Water Tank T-103

1,3,5-Trimethylbenzene			1150	
Vinyl chloride	4,000	200	<70.5	
m,p-Xylene			6,280	
o-Xylene			2840	
TCLP Volatile Organic Compounds by EPA1311/8260D			ug/L	
Acetone			<500	
Benzene	10,000	500	8.50	J
Bromobenzene			<12.5	
Bromochloromethane			<25.0	
Bromodichloromethane			<25.0	
Bromoform			<25.0	
Bromomethane			<250	
2-Butanone (MEK)	4,000,000	200,000	<250	
n-Butylbenzene			<25.0	
sec-Butylbenzene			<25.0	
tert-Butylbenzene			<25.0	
Carbon tetrachloride	10,000	500	<25.0	
Chlorobenzene	2,000,000	100,000	<12.5	
Chloroethane			<250	
Chloroform	120,000	6,000	<25.0	
Chloromethane			<125	
2-Chlorotoluene			<25.0	
4-Chlorotoluene			<25.0	
1,2-Dibromo-3-chloropropane			<250	
Dibromochloromethane			<25.0	
1,2-Dibromoethane (EDB)			<12.5	
Dibromomethane			<25.0	
1,2-Dichlorobenzene			<12.5	
1,3-Dichlorobenzene			<12.5	
1,4-Dichlorobenzene	150,000	7,500	<12.5	
Dichlorodifluoromethane			<25.0	
1,1-Dichloroethane			<12.5	
1,1-Dichloroethene	14,000	700	<12.5	
1,2-Dichloroethane (EDC)	10,000	500	<12.5	
cis-1,2-Dichloroethene			<25.0	
trans-1,2-Dichloroethene			<12.5	
1,2-Dichloropropane			<12.5	
1,3-Dichloropropane			<25.0	
2,2-Dichloropropane			<25.0	
1,1-Dichloropropene			<25.0	
cis-1,3-Dichloropropene			<25.0	
trans-1,3-Dichloropropene			<25.0	
Ethylbenzene			21.5	J
Hexachlorobutadiene	10,000	500	<125	
2-Hexanone			<500	
Isopropylbenzene			<25.0	
4-Isopropyltoluene			<25.0	
4-Methyl-2-pentanone (MIBK)			<250	
Methyl tert-butyl ether (MTBE)			<25.0	
Methylene chloride			<250	
n-Propylbenzene			<12.5	
Styrene			<25.0	
1,1,1,2-Tetrachloroethane			<12.5	
1,1,2,2-Tetrachloroethane			<12.5	
Naphthalene			1720	Q-54e
Tetrachloroethene (PCE)	14,000	700	<12.5	
Toluene			<25.0	
1,2,3-Trichlorobenzene			<25.0	
1,2,4-Trichlorobenzene			<100	
1,1,1-Trichloroethane			<12.5	
1,1,2-Trichloroethane			<12.5	
Trichloroethene (TCE)	10,000	500	<12.5	
Trichlorofluoromethane			<50.0	
1,2,3-Trichloropropane			<25.0	
1,2,4-Trimethylbenzene			<25.0	
1,3,5-Trimethylbenzene			<25.0	
Vinyl chloride	4,000	200	<12.5	
m,p-Xylene			35.0	J
o-Xylene			14.0	J
Semivolatile Organic Compounds by EPA 8270E			ug/kg dry	
Acenaphthene			88,600	

Table 1: Purge Water Tank T-103

Acenaphthylene			31,000	
Anthracene			73,900	
Benz(a)anthracene			67,300	
Benzo(a)pyrene			88,300	
Benzo(b)fluoranthene			77,300	
Benzo(k)fluoranthene			25,900	M-05
Benzo(g,h,i)perylene			65,600	
Chrysene			83,200	
Dibenz(a,h)anthracene			7,270	
Fluoranthene			196,000	
Fluorene			72,000	
Indeno(1,2,3-cd)pyrene			48,800	
1-Methlnaphthalene			82,100	
2-Methlnaphthalene			150,000	
Naphthalene			220,000	
Phenanthrene			305,000	
Pyrene			227,000	
Carbazole			4,140	
Dibenzofuran			15,700	
2-Chlorophenol			<4390	
4-Chloro-3-methyphenol			<8760	
2,4-Dichlorophenol			<4390	
2,4-Dimethyphenol			<4390	
2,4-Dinitrophenol			<21900	
4,6-Dinitro-2-methylphenol			<21900	
2-Methylphenol	4,000,000	200,000	<2190	
3+4-Methyphenol(s)			<2190	
2-Niptrophenol			<8760	
4-Nitrophenol			<17600	
Pentachlorophenol(PCP)	2,000,000	100,000	<8760	
Phenol			<1760	
2,3,4,6-Tetrachlorophenol			<4390	
2,3,5,6-Tetrachlorophenol			<4390	
2,4,5-Trichlorophenol	8,000,000	400,000	<4390	
2,4,6-Trichlorophenol	40,000	2,000	<4390	
Bis(2-ethylhexyl)phtalate			<13200	
Butyl benzyl phtalate			<8760	
Diethyphtalate			<8760	
Dimethylphtalate			<8760	
Di-n-butylphtalate			<8760	
Di-n-octyl phtalate			<8760	
N-Nitrosodimethylamine			<2190	
N-Nitroso-di-n-propylamine			<2190	
N-Nitrosodiphenylamine			<6520	R-02
Bis(2-Chloroethoxy) methane			<2190	
Bis(2-Chloroethyl) ether			<2190	
2,2'- Oxybis (1-Chloropropane)			<2190	
Hexachlorobenzene	2,600	130	<876	
Hexachlorobutadiene	10,000	500	<2190	
Hexachlorocyclopentadiene			<4390	
Hexachloroethane	60,000	3,000	<2190	
2-Chloronaphthalene			<876	
1,2,4-Trichlorobenzene			<2190	
4-Bromophenyl phenyl ether			<2190	
4-Chlorophenyl phenyl ether			<2190	
Aniline			<4390	
4-Chloroaniline			<2190	
2-Nitroaniline			<17600	
3-Nitroaniline			<17600	
4-Nitroaniline			<17600	
Nitrobenzene	40,000	2,000	<8760	
2,4-Dinitrotoluene	2,600	130	<8760	
2,6-Dinitrotoluene			<8760	
Benzoic acid			<110000	
Benzyl alchohol			<4390	
Isophorone			<2190	
Azobenzene (1,2-DPH)			<2190	
Bis(2-Ethylhexyl)adipate			<21900	
3,3'-Dichlorobenzidine			<17600	Q-52
1,2-Dinitrobenzene			<21900	
1,3-Dinitrobenzene			<21900	
1,4-Dinitrobenzene			<21900	
Pyridine	100,000	5,000	<4390	

Table 1: Purge Water Tank T-103

1,2-Dichlorobenzene			<2190	
1,3-Dichlorobenzene			<2190	
1,4-Dichlorobenzene	150,000	7,500	<2190	
TCLP Semivolatile Organic Compounds by EPA 8270D (ug/L)			ug/L	
Acenaphthene			154	
Acenaphthylene			37.9	
Anthracene			20.4	
Benz(a)anthracene			<10.0	
Benzo(a)pyrene			<15.0	
Benzo(b)fluoranthene			<15.0	
Benzo(k)fluoranthene			<15.0	
Benzo(g,h,i)perylene			<10.0	
Chrysene			<10.0	
Dibenz(a,h)anthracene			<10.0	
Fluoranthene			15.5	
Fluorene			70.4	
Indeno(1,2,3-cd)pyrene			<10.0	
1-Methlnaphthalene			296	
2-Methlnaphthalene			491	
Naphthalene			2020	B-02
Phenanthrene			156	
Pyrene			14.9	
Carbazole			25.0	
Dibenzofuran			19.3	
2-Chlorophenol			<50.0	
4-Chloro-3-methylphenol			<100	
2,4-Dichlorophenol			<50.0	
2,4-Dimethylphenol			<50.0	
2,4-Dinitrophenol			<250	
4,6-Dinitro-2-methylphenol			<250	
2-Methylphenol	4,000,000	200,000	<25.0	
3+4-Methylphenol(s)			<25.0	
2-Nitrophenol			<100	
4-Nitrophenol			<100	
Pentachlorophenol(PCP)	2,000,000	100,000	<100	
Phenol			<200	
2,3,4,6-Tetrachlorophenol			<50.0	
2,3,5,6-Tetrachlorophenol			<50.0	
2,4,5-Trichlorophenol	8,000,000	400,000	<50.0	
2,4,6-Trichlorophenol	40,000	2,000	<50.0	
Bis(2-ethylhexyl)phthalate			<200	
Butyl benzyl phtalate			<200	
Diethylphthalate			<200	
Dimethylphthalate			<200	
Di-n-butylphthalate			<200	
Di-n-octyl phthalate			<200	
N-Nitrosodimethylamine			<25.0	
N-Nitroso-di-n-propylamine			<25.0	
N-Nitrosodiphenylamine			<25.0	
Bis(2-Chloroethoxy) methane			<25.0	
Bis(2-Chloroethyl) ether			<25.0	
2,2'- Oxybis (1-Chloropropane)			<25.0	
Hexachlorobenzene	2,600	130	<10.0	
Hexachlorobutadiene	10,000	500	<25.0	
Hexachlorocyclopentadiene			<50.0	
Hexachloroethane	60,000	3,000	<25.0	
2-Chloronaphthalene			<10.0	
1,2,4-Trichlorobenzene			<25.0	
4-Bromophenyl phenyl ether			<25.0	
4-Chlorophenyl phenyl ether			<25.0	
Aniline			<50.0	
4-Chloroaniline			<25.0	
2-Nitroaniline			<200	
3-Nitroaniline			<200	
4-Nitroaniline			<200	
Nitrobenzene	40,000	2,000	<100	
2,4-Dinitrotoluene	2,600	130	<100	
2,6-Dinitrotoluene			<100	
Benzoic acid			<1250	
Benzyl alchohol			<100	
Isophorone			<25.0	
Azobenzene (1,2-DPH)			<25.0	

Table 1: Purge Water Tank T-103

Bis(2-Ethylhexyl)adipate			<250	
3,3'-Dichlorobenzidine				
1,2-Dinitrobenzene			<250	
1,3-Dinitrobenzene			<250	
1,4-Dinitrobenzene			<250	
Pyridine	100,000	5,000	<100	
1,2-Dichlorobenzene			<25.0	
1,3-Dichlorobenzene			<25.0	
1,4-Dichlorobenzene	150,000	7,500	<25.0	
Total Metals by EPA 6020B(ICPMS)			ug/kg dry	
Arsenic	100,000	5,000	7,070	
Barium	2,000,000	100,000	269,000	
Cadmium	20,000	1,000	<672	
Chromium	100,000	5,000	10,300	
Lead	100,000	5,000	7,870	
Mercury	4,000	200	<269	
Selenium	20,000	1,000	<3360	
Silver	100,000	5,000	<672	
TCLP Metals by EPA 6020B (ICPMS)			ug/kg dry	
Arsenic	100,000	5,000	<100	
Barium	2,000,000	100,000	<5000	
Cadmium	20,000	1,000	<100	
Chromium	100,000	5,000	<100	
Lead	100,000	5,000	<50.0	
Mercury	4,000	200	<7.00	
Selenium	20,000	1,000	<100	
Silver	100,000	5,000	<100	
Conventional				
Cyanide - Total (Non-Aqueous Water Leach) by EPA 9013M/9014 (ug/kg dry)				
Total Cyanide (ug/kg dry)			8980	
Percent Dry Weight by EPA 8000C or Free Liquid (mL)				
%Solids			30.1	
Heat of Combustion BTU/LB (D-240)				

NOTES:

*If laboratory results from the totals test reported in ug/kg exceed the "20x TC Threshold" value, then see results of the TCLP test for direct comparison to actual TC regulatory levels reported in ug/L for regulatory status determination.

B-02 = Analyte detected in an associated blank at a level between one-half the MRL and the MRL.
(See Notes and Conventions below.)

F-03 = The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.

F-17 = No fuel pattern detected. The Diesel result represents carbon range C12 to C24, and the Oil result represents >C24 to C40.

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-52 = Due to erratic or low blank spike recoveries, results for this analyte are considered Estimated Values.

Q-54e = Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by -12%. The results are reported as Estimated Values.

R-02 = The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Monday, July 10, 2023

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

RE: A3F1688 - Gasco - Soil Residuals - 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 A3F1688, which was received by the laboratory on 6/30/2023 at 9:55:00AM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler#1 1.3 degC

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

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



Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T103-06023-16	A3F1688-01	Soil	06/30/23 07:45	06/30/23 09:55

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0188		
Diesel	7590000	1630000	3260000	ug/kg dry	50	07/07/23 22:36	NWTPH-Dx	F-17
Oil	ND	3260000	6510000	ug/kg dry	50	07/07/23 22:36	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: %</i>	<i>Limits: 50-150 %</i>	50	07/07/23 22:36	NWTPH-Dx	S-01

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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
T103-06023-16 (A3F1688-01)		Matrix: Soil			Batch: 23G0019		V-15	
Gasoline Range Organics	1440000	14100	28200	ug/kg dry	50	07/03/23 20:41	NWTPH-Gx (MS)	F-03
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 115 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/03/23 20:41</i>	<i>NWTPH-Gx (MS)</i>
<i>1,4-Difluorobenzene (Sur)</i>		<i>108 %</i>		<i>50-150 %</i>		<i>1</i>	<i>07/03/23 20:41</i>	<i>NWTPH-Gx (MS)</i>

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0019		V-15
Acetone	ND	2820	5640	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Acrylonitrile	ND	282	564	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Benzene	3830	28.2	56.4	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Bromobenzene	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Bromochloromethane	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Bromodichloromethane	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Bromoform	ND	282	564	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Bromomethane	ND	2820	2820	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
2-Butanone (MEK)	ND	1410	2820	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
n-Butylbenzene	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
sec-Butylbenzene	161	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	J
tert-Butylbenzene	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Carbon disulfide	ND	1410	2820	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Carbon tetrachloride	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Chlorobenzene	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Chloroethane	ND	1410	2820	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Chloroform	1180	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Chloromethane	ND	705	1410	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
2-Chlorotoluene	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
4-Chlorotoluene	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Dibromochloromethane	ND	282	564	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	705	1410	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Dibromomethane	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,2-Dichlorobenzene	90.2	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	J
1,3-Dichlorobenzene	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,4-Dichlorobenzene	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Dichlorodifluoromethane	ND	282	564	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,1-Dichloroethane	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,1-Dichloroethene	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
cis-1,2-Dichloroethene	138	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	J
trans-1,2-Dichloroethene	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0019		V-15
1,2-Dichloropropane	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,3-Dichloropropane	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
2,2-Dichloropropane	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,1-Dichloropropene	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
cis-1,3-Dichloropropene	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
trans-1,3-Dichloropropene	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Ethylbenzene	5460	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Hexachlorobutadiene	ND	282	564	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
2-Hexanone	ND	1410	2820	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Isopropylbenzene	460	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
4-Isopropyltoluene	257	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	J
Methylene chloride	ND	1410	2820	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	1410	2820	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
n-Propylbenzene	209	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Styrene	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,1,1,2,2-Tetrachloroethane	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Tetrachloroethene (PCE)	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Toluene	1390	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,2,3-Trichlorobenzene	ND	705	1410	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,2,4-Trichlorobenzene	ND	705	1410	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,1,1-Trichloroethane	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,1,2-Trichloroethane	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Trichloroethene (TCE)	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Trichlorofluoromethane	ND	282	564	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,2,3-Trichloropropane	ND	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,2,4-Trimethylbenzene	3090	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
1,3,5-Trimethylbenzene	1150	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
Vinyl chloride	ND	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
m,p-Xylene	6280	141	282	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
o-Xylene	2840	70.5	141	ug/kg dry	50	07/03/23 20:41	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/03/23 20:41</i>	<i>5035A/8260D</i>

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0019		V-15
<i>Surrogate: Toluene-d8 (Surr)</i>			<i>Recovery: 97 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/03/23 20:41</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>90 %</i>	<i>79-120 %</i>	<i>1</i>	<i>07/03/23 20:41</i>	<i>5035A/8260D</i>	
T103-06023-16 (A3F1688-01RE1)				Matrix: Soil		Batch: 23G0116		
Naphthalene	321000	28200	56400	ug/kg dry	5000	07/06/23 22:59	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/06/23 22:59</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>	<i>1</i>	<i>07/06/23 22:59</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>92 %</i>	<i>79-120 %</i>	<i>1</i>	<i>07/06/23 22:59</i>	<i>5035A/8260D</i>	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01RE1)			Matrix: Soil		Batch: 23G0124			
Acetone	ND	500	1000	ug/L	50	07/06/23 17:07	1311/8260D	
Benzene	8.50	6.25	12.5	ug/L	50	07/06/23 17:07	1311/8260D	J
Bromobenzene	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
Bromochloromethane	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
Bromoform	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
Bromomethane	ND	250	250	ug/L	50	07/06/23 17:07	1311/8260D	
2-Butanone (MEK)	ND	250	500	ug/L	50	07/06/23 17:07	1311/8260D	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
Chlorobenzene	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
Chloroethane	ND	250	250	ug/L	50	07/06/23 17:07	1311/8260D	
Chloroform	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
Chloromethane	ND	125	250	ug/L	50	07/06/23 17:07	1311/8260D	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,2-Dibromo-3-chloropropane	ND	250	250	ug/L	50	07/06/23 17:07	1311/8260D	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
Dibromomethane	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,1-Dichloroethane	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
cis-1,2-Dichloroethene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01RE1)				Matrix: Soil		Batch: 23G0124		
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
Ethylbenzene	21.5	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	J
Hexachlorobutadiene	ND	125	250	ug/L	50	07/06/23 17:07	1311/8260D	
2-Hexanone	ND	500	500	ug/L	50	07/06/23 17:07	1311/8260D	
Isopropylbenzene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
4-Methyl-2-pentanone (MIBK)	ND	250	500	ug/L	50	07/06/23 17:07	1311/8260D	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
Methylene chloride	ND	250	500	ug/L	50	07/06/23 17:07	1311/8260D	
n-Propylbenzene	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
Styrene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
Naphthalene	1720	100	100	ug/L	50	07/06/23 17:07	1311/8260D	Q-54e
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
Toluene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,2,3-Trichlorobenzene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,2,4-Trichlorobenzene	ND	100	100	ug/L	50	07/06/23 17:07	1311/8260D	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	07/06/23 17:07	1311/8260D	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	
Vinyl chloride	ND	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	
m,p-Xylene	35.0	25.0	50.0	ug/L	50	07/06/23 17:07	1311/8260D	J
o-Xylene	14.0	12.5	25.0	ug/L	50	07/06/23 17:07	1311/8260D	J
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/06/23 17:07</i>	<i>1311/8260D</i>
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/06/23 17:07</i>	<i>1311/8260D</i>

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

TCLP Volatile Organic Compounds by EPA 1311/8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01RE1)				Matrix: Soil		Batch: 23G0124		
<i>Surrogate: 4-Bromofluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/06/23 17:07</i>	<i>1311/8260D</i>	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0165		
Acenaphthene	88600	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Acenaphthylene	31000	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Anthracene	73900	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Benz(a)anthracene	67300	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Benzo(a)pyrene	88300	1320	2630	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Benzo(b)fluoranthene	77300	1320	2630	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Benzo(k)fluoranthene	25900	1320	2630	ug/kg dry	200	07/08/23 00:07	EPA 8270E	M-05
Benzo(g,h,i)perylene	65600	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Chrysene	83200	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Dibenz(a,h)anthracene	7270	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Fluoranthene	196000	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Fluorene	72000	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Indeno(1,2,3-cd)pyrene	48800	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
1-Methylnaphthalene	82100	1760	3510	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2-Methylnaphthalene	150000	1760	3510	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Naphthalene	220000	1760	3510	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Phenanthrene	305000	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Pyrene	227000	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Carbazole	4140	1320	2630	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Dibenzofuran	15700	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2-Chlorophenol	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
4-Chloro-3-methylphenol	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2,4-Dichlorophenol	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2,4-Dimethylphenol	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2,4-Dinitrophenol	ND	21900	43900	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	21900	43900	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2-Methylphenol	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
3+4-Methylphenol(s)	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2-Nitrophenol	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
4-Nitrophenol	ND	17600	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Pentachlorophenol (PCP)	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Phenol	ND	1760	3510	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0165		
2,3,5,6-Tetrachlorophenol	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2,4,5-Trichlorophenol	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2,4,6-Trichlorophenol	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	13200	26300	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Butyl benzyl phthalate	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Diethylphthalate	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Dimethylphthalate	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Di-n-butylphthalate	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Di-n-octyl phthalate	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
N-Nitrosodimethylamine	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
N-Nitrosodiphenylamine	ND	6520	6520	ug/kg dry	200	07/08/23 00:07	EPA 8270E	R-02
Bis(2-Chloroethoxy) methane	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Hexachlorobenzene	ND	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Hexachlorobutadiene	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Hexachlorocyclopentadiene	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Hexachloroethane	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2-Chloronaphthalene	ND	876	1760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
1,2,4-Trichlorobenzene	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
4-Bromophenyl phenyl ether	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Aniline	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
4-Chloroaniline	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2-Nitroaniline	ND	17600	35100	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
3-Nitroaniline	ND	17600	35100	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
4-Nitroaniline	ND	17600	35100	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Nitrobenzene	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2,4-Dinitrotoluene	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
2,6-Dinitrotoluene	ND	8760	17600	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Benzoic acid	ND	110000	219000	ug/kg dry	200	07/08/23 00:07	EPA 8270E	
Benzyl alcohol	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
T103-06023-16 (A3F1688-01)			Matrix: Soil			Batch: 23G0165			
Isophorone	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
Azobenzene (1,2-DPH)	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
Bis(2-Ethylhexyl) adipate	ND	21900	43900	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
3,3'-Dichlorobenzidine	ND	17600	35100	ug/kg dry	200	07/08/23 00:07	EPA 8270E	Q-52	
1,2-Dinitrobenzene	ND	21900	43900	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
1,3-Dinitrobenzene	ND	21900	43900	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
1,4-Dinitrobenzene	ND	21900	43900	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
Pyridine	ND	4390	8760	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
1,2-Dichlorobenzene	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
1,3-Dichlorobenzene	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
1,4-Dichlorobenzene	ND	2190	4390	ug/kg dry	200	07/08/23 00:07	EPA 8270E		
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 37-122 %</i>		<i>200</i>	<i>07/08/23 00:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorobiphenyl (Surr)</i>		<i>80 %</i>		<i>44-120 %</i>		<i>200</i>	<i>07/08/23 00:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>Phenol-d6 (Surr)</i>		<i>86 %</i>		<i>33-122 %</i>		<i>200</i>	<i>07/08/23 00:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>85 %</i>		<i>54-127 %</i>		<i>200</i>	<i>07/08/23 00:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2-Fluorophenol (Surr)</i>		<i>32 %</i>		<i>35-120 %</i>		<i>200</i>	<i>07/08/23 00:07</i>	<i>EPA 8270E</i>	<i>S-05</i>
<i>2,4,6-Tribromophenol (Surr)</i>		<i>%</i>		<i>39-132 %</i>		<i>200</i>	<i>07/08/23 00:07</i>	<i>EPA 8270E</i>	<i>S-01</i>

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0149		
Acenaphthene	154	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Acenaphthylene	37.9	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Anthracene	20.4	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Benz(a)anthracene	ND	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Benzo(a)pyrene	ND	---	15.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Benzo(b)fluoranthene	ND	---	15.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Benzo(k)fluoranthene	ND	---	15.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Benzo(g,h,i)perylene	ND	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Chrysene	ND	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Dibenz(a,h)anthracene	ND	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Fluoranthene	15.5	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Fluorene	70.4	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Indeno(1,2,3-cd)pyrene	ND	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
1-Methylnaphthalene	296	---	20.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2-Methylnaphthalene	491	---	20.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Naphthalene	2020	---	20.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	B-02
Phenanthrene	156	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Pyrene	14.9	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Carbazole	25.0	---	15.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Dibenzofuran	19.3	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2-Chlorophenol	ND	---	50.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
4-Chloro-3-methylphenol	ND	---	100	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2,4-Dichlorophenol	ND	---	50.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2,4-Dimethylphenol	ND	---	50.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2,4-Dinitrophenol	ND	---	250	ug/L	50	07/07/23 15:47	1311/8270E-LL	
4,6-Dinitro-2-methylphenol	ND	---	250	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2-Methylphenol	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
3+4-Methylphenol(s)	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2-Nitrophenol	ND	---	100	ug/L	50	07/07/23 15:47	1311/8270E-LL	
4-Nitrophenol	ND	---	100	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Pentachlorophenol (PCP)	ND	---	100	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Phenol	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2,3,4,6-Tetrachlorophenol	ND	---	50.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0149		
2,3,5,6-Tetrachlorophenol	ND	---	50.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2,4,5-Trichlorophenol	ND	---	50.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2,4,6-Trichlorophenol	ND	---	50.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Bis(2-ethylhexyl)phthalate	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Butyl benzyl phthalate	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Diethylphthalate	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Dimethylphthalate	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Di-n-butylphthalate	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Di-n-octyl phthalate	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
N-Nitrosodimethylamine	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
N-Nitroso-di-n-propylamine	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
N-Nitrosodiphenylamine	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Bis(2-Chloroethoxy) methane	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Bis(2-Chloroethyl) ether	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2,2'-Oxybis(1-Chloropropane)	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Hexachlorobenzene	ND	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Hexachlorobutadiene	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Hexachlorocyclopentadiene	ND	---	50.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Hexachloroethane	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2-Chloronaphthalene	ND	---	10.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
1,2,4-Trichlorobenzene	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
4-Bromophenyl phenyl ether	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
4-Chlorophenyl phenyl ether	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Aniline	ND	---	50.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
4-Chloroaniline	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2-Nitroaniline	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
3-Nitroaniline	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
4-Nitroaniline	ND	---	200	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Nitrobenzene	ND	---	100	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2,4-Dinitrotoluene	ND	---	100	ug/L	50	07/07/23 15:47	1311/8270E-LL	
2,6-Dinitrotoluene	ND	---	100	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Benzoic acid	ND	---	1250	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Benzyl alcohol	ND	---	100	ug/L	50	07/07/23 15:47	1311/8270E-LL	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)			Matrix: Soil			Batch: 23G0149		
Isophorone	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Azobenzene (1,2-DPH)	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Bis(2-Ethylhexyl) adipate	ND	---	250	ug/L	50	07/07/23 15:47	1311/8270E-LL	
1,2-Dinitrobenzene	ND	---	250	ug/L	50	07/07/23 15:47	1311/8270E-LL	
1,3-Dinitrobenzene	ND	---	250	ug/L	50	07/07/23 15:47	1311/8270E-LL	
1,4-Dinitrobenzene	ND	---	250	ug/L	50	07/07/23 15:47	1311/8270E-LL	
Pyridine	ND	---	100	ug/L	50	07/07/23 15:47	1311/8270E-LL	
1,2-Dichlorobenzene	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
1,3-Dichlorobenzene	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
1,4-Dichlorobenzene	ND	---	25.0	ug/L	50	07/07/23 15:47	1311/8270E-LL	
<i>Surrogate: Nitrobenzene-d5 (Surr)</i>			<i>Recovery: 63 %</i>	<i>Limits: 44-120 %</i>	50	07/07/23 15:47	1311/8270E-LL	S-05
<i>2-Fluorobiphenyl (Surr)</i>			75 %	44-120 %	50	07/07/23 15:47	1311/8270E-LL	S-05
<i>Phenol-d6 (Surr)</i>			11 %	10-133 %	50	07/07/23 15:47	1311/8270E-LL	S-05
<i>p-Terphenyl-d14 (Surr)</i>			88 %	50-134 %	50	07/07/23 15:47	1311/8270E-LL	S-05
<i>2-Fluorophenol (Surr)</i>			12 %	19-120 %	50	07/07/23 15:47	1311/8270E-LL	S-05
<i>2,4,6-Tribromophenol (Surr)</i>			93 %	43-140 %	50	07/07/23 15:47	1311/8270E-LL	S-05

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil				
Batch: 23G0074								
Arsenic	7070	---	3360	ug/kg dry	10	07/06/23 01:03	EPA 6020B	
Barium	269000	---	3360	ug/kg dry	10	07/06/23 01:03	EPA 6020B	
Cadmium	ND	---	672	ug/kg dry	10	07/06/23 01:03	EPA 6020B	
Chromium	10300	---	3360	ug/kg dry	10	07/06/23 01:03	EPA 6020B	
Lead	7870	---	672	ug/kg dry	10	07/06/23 01:03	EPA 6020B	
Mercury	ND	---	269	ug/kg dry	10	07/06/23 01:03	EPA 6020B	
Selenium	ND	---	3360	ug/kg dry	10	07/06/23 01:03	EPA 6020B	
Silver	ND	---	672	ug/kg dry	10	07/06/23 01:03	EPA 6020B	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil				
Batch: 23G0134								
Arsenic	ND	---	100	ug/L	10	07/07/23 20:43	1311/6020B	
Barium	ND	---	5000	ug/L	10	07/07/23 20:43	1311/6020B	
Cadmium	ND	---	100	ug/L	10	07/07/23 20:43	1311/6020B	
Chromium	ND	---	100	ug/L	10	07/07/23 20:43	1311/6020B	
Lead	ND	---	50.0	ug/L	10	07/07/23 20:43	1311/6020B	
Mercury	ND	---	7.00	ug/L	10	07/07/23 20:43	1311/6020B	
Selenium	ND	---	100	ug/L	10	07/07/23 20:43	1311/6020B	
Silver	ND	---	100	ug/L	10	07/07/23 20:43	1311/6020B	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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
T103-06023-16 (A3F1688-01RE2)				Matrix: Soil		Batch: 23F1155		
Total Cyanide	8980	---	1600	ug/kg dry	5	07/03/23 15:58	D7511-12	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0024		
% Solids	30.1	---	1.00	%	1	07/05/23 06:13	EPA 8000D	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
T103-06023-16 (A3F1688-01)				Matrix: Soil		Batch: 23G0054		
TCLP Extraction	PREP	---		N/A	1	07/06/23 13:43	EPA 1311	
TCLP Extraction	PREP	---		N/A	1	07/06/23 13:43	EPA 1311	
TCLP ZHE Extraction	0.00	---		N/A	1	07/05/23 13:42	EPA 1311 ZHE	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0188 - EPA 3546 (Fuels)						Soil						
Blank (23G0188-BLK1)						Prepared: 07/07/23 14:51 Analyzed: 07/07/23 21:55						
<u>NWTPH-Dx</u>												
Diesel	ND	10000	20000	ug/kg wet	1	---	---	---	---	---	---	
Oil	ND	20000	40000	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (23G0188-BS1)						Prepared: 07/07/23 14:51 Analyzed: 07/07/23 22:16						
<u>NWTPH-Dx</u>												
Diesel	120000	10000	20000	ug/kg wet	1	125000	---	96	38-132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (23G0188-DUP1)						Prepared: 07/07/23 14:51 Analyzed: 07/07/23 22:57						
<u>QC Source Sample: T103-06023-16 (A3F1688-01)</u>												
<u>NWTPH-Dx</u>												
Diesel	1020000	1630000	3250000	ug/kg dry	50	---	7590000	---	---	30	30%	F-17
Oil	ND	3250000	6510000	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 50x</i>						<i>S-01</i>
Duplicate (23G0188-DUP2)						Prepared: 07/07/23 16:30 Analyzed: 07/08/23 07:12						
<u>QC Source Sample: Non-SDG (A3G0862-02)</u>												
Diesel	41300	12100	24300	ug/kg dry	1	---	44100	---	---	7	30%	F-11
Oil	ND	24300	48500	ug/kg dry	1	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 51 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0019 - EPA 5035A						Soil						
Blank (23G0019-BLK1)			Prepared: 07/03/23 10:47 Analyzed: 07/03/23 15:10									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	2500	5000	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 104 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>110 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (23G0019-BS2)						Prepared: 07/03/23 10:47 Analyzed: 07/03/23 14:40						
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	28000	2500	5000	ug/kg wet	50	25000	---	112	80-120%	---	---	
<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>109 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (23G0019-DUP1)						Prepared: 06/29/23 12:39 Analyzed: 07/03/23 16:01						TEMP, V-15
<u>QC Source Sample: Non-SDG (A3F1641-01)</u>												
Gasoline Range Organics	ND	2670	5340	ug/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>111 %</i>		<i>50-150 %</i>		<i>"</i>						

Apex Laboratories

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

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc.	Project: Gasco - Soil Residuals	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3F1688 - 07 10 23 1742

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 23G0019 - EPA 5035A						Soil						
Blank (23G0019-BLK1)			Prepared: 07/03/23 10:47 Analyzed: 07/03/23 15:10									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Apex Laboratories

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



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc.	Project: Gasco - Soil Residuals	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3F1688 - 07 10 23 1742

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 23G0019 - EPA 5035A						Soil						
Blank (23G0019-BLK1)			Prepared: 07/03/23 10:47 Analyzed: 07/03/23 15:10									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr)

Recovery: 103 % Limits: 80-120 %

Dilution: 1x

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0019 - EPA 5035A						Soil						
Blank (23G0019-BLK1)						Prepared: 07/03/23 10:47 Analyzed: 07/03/23 15:10						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23G0019-BS1)						Prepared: 07/03/23 10:47 Analyzed: 07/03/23 14:14						
5035A/8260D												
Acetone	2070	500	1000	ug/kg wet	50	2000	---	104	80-120%	---	---	
Acrylonitrile	1080	50.0	100	ug/kg wet	50	1000	---	108	80-120%	---	---	
Benzene	1100	5.00	10.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Bromobenzene	984	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Bromochloromethane	1180	25.0	50.0	ug/kg wet	50	1000	---	118	80-120%	---	---	
Bromodichloromethane	1210	25.0	50.0	ug/kg wet	50	1000	---	121	80-120%	---	---	Q-56
Bromoform	1050	50.0	100	ug/kg wet	50	1000	---	105	80-120%	---	---	
Bromomethane	1160	500	500	ug/kg wet	50	1000	---	116	80-120%	---	---	
2-Butanone (MEK)	2080	250	500	ug/kg wet	50	2000	---	104	80-120%	---	---	
n-Butylbenzene	995	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
sec-Butylbenzene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
tert-Butylbenzene	964	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Carbon disulfide	962	250	500	ug/kg wet	50	1000	---	96	80-120%	---	---	
Carbon tetrachloride	1240	25.0	50.0	ug/kg wet	50	1000	---	124	80-120%	---	---	Q-56
Chlorobenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Chloroethane	1410	250	500	ug/kg wet	50	1000	---	141	80-120%	---	---	Q-56
Chloroform	1100	25.0	50.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Chloromethane	895	125	250	ug/kg wet	50	1000	---	90	80-120%	---	---	
2-Chlorotoluene	966	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
4-Chlorotoluene	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Dibromochloromethane	1200	50.0	100	ug/kg wet	50	1000	---	120	80-120%	---	---	
1,2-Dibromo-3-chloropropane	974	125	250	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,2-Dibromoethane (EDB)	998	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Dibromomethane	1120	25.0	50.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
1,2-Dichlorobenzene	996	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,3-Dichlorobenzene	1000	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,4-Dichlorobenzene	986	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Dichlorodifluoromethane	698	100	100	ug/kg wet	50	1000	---	70	80-120%	---	---	Q-55
1,1-Dichloroethane	1140	12.5	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0019 - EPA 5035A						Soil						
LCS (23G0019-BS1)						Prepared: 07/03/23 10:47 Analyzed: 07/03/23 14:14						Q-50
1,2-Dichloroethane (EDC)	1170	12.5	25.0	ug/kg wet	50	1000	---	117	80-120%	---	---	
1,1-Dichloroethene	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
cis-1,2-Dichloroethene	1120	12.5	25.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
trans-1,2-Dichloroethene	1090	12.5	25.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
1,2-Dichloropropane	1140	12.5	25.0	ug/kg wet	50	1000	---	114	80-120%	---	---	
1,3-Dichloropropane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
2,2-Dichloropropane	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
1,1-Dichloropropene	1110	25.0	50.0	ug/kg wet	50	1000	---	111	80-120%	---	---	
cis-1,3-Dichloropropene	1090	25.0	50.0	ug/kg wet	50	1000	---	109	80-120%	---	---	
trans-1,3-Dichloropropene	1080	25.0	50.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
Ethylbenzene	988	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Hexachlorobutadiene	929	50.0	100	ug/kg wet	50	1000	---	93	80-120%	---	---	
2-Hexanone	1680	250	500	ug/kg wet	50	2000	---	84	80-120%	---	---	
Isopropylbenzene	957	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
4-Isopropyltoluene	988	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Methylene chloride	1180	250	500	ug/kg wet	50	1000	---	118	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1850	250	500	ug/kg wet	50	2000	---	93	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	963	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	
Naphthalene	862	50.0	100	ug/kg wet	50	1000	---	86	80-120%	---	---	
n-Propylbenzene	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Styrene	966	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1160	12.5	25.0	ug/kg wet	50	1000	---	116	80-120%	---	---	
1,1,2,2-Tetrachloroethane	949	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Tetrachloroethene (PCE)	998	12.5	25.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
Toluene	983	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
1,2,3-Trichlorobenzene	912	125	250	ug/kg wet	50	1000	---	91	80-120%	---	---	
1,2,4-Trichlorobenzene	860	125	250	ug/kg wet	50	1000	---	86	80-120%	---	---	
1,1,1-Trichloroethane	1180	12.5	25.0	ug/kg wet	50	1000	---	118	80-120%	---	---	
1,1,2-Trichloroethane	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
Trichloroethene (TCE)	1150	12.5	25.0	ug/kg wet	50	1000	---	115	80-120%	---	---	
Trichlorofluoromethane	1100	50.0	100	ug/kg wet	50	1000	---	110	80-120%	---	---	
1,2,3-Trichloropropane	1010	25.0	50.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,2,4-Trimethylbenzene	972	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,3,5-Trimethylbenzene	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0019 - EPA 5035A						Soil						
LCS (23G0019-BS1)						Prepared: 07/03/23 10:47 Analyzed: 07/03/23 14:14						Q-50
Vinyl chloride	1050	12.5	25.0	ug/kg wet	50	1000	---	105	80-120%	---	---	
m,p-Xylene	1970	25.0	50.0	ug/kg wet	50	2000	---	98	80-120%	---	---	
o-Xylene	912	12.5	25.0	ug/kg wet	50	1000	---	91	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>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23G0019-DUP1) Prepared: 06/29/23 12:39 Analyzed: 07/03/23 16:01 **TEMP, V-15**

QC Source Sample: Non-SDG (A3F1641-01)

Acetone	ND	534	1070	ug/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	53.4	107	ug/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	5.34	10.7	ug/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	53.4	107	ug/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	534	534	ug/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	267	534	ug/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	267	534	ug/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	267	534	ug/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	133	267	ug/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	53.4	107	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	133	267	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
Dibromomethane	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0019 - EPA 5035A						Soil							
Duplicate (23G0019-DUP1)			Prepared: 06/29/23 12:39 Analyzed: 07/03/23 16:01						TEMP, V-15				
QC Source Sample: Non-SDG (A3F1641-01)													
1,3-Dichlorobenzene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
Dichlorodifluoromethane	ND	107	107	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethane	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloroethane (EDC)	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,2-Dichloroethene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,2-Dichloroethene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloropropane	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
1,3-Dichloropropane	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
2,2-Dichloropropane	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloropropene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,3-Dichloropropene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,3-Dichloropropene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
Ethylbenzene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
Hexachlorobutadiene	ND	53.4	107	ug/kg dry	50	---	ND	---	---	---	30%		
2-Hexanone	ND	267	534	ug/kg dry	50	---	ND	---	---	---	30%		
Isopropylbenzene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
4-Isopropyltoluene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
Methylene chloride	ND	267	534	ug/kg dry	50	---	ND	---	---	---	30%		
4-Methyl-2-pentanone (MiBK)	ND	267	534	ug/kg dry	50	---	ND	---	---	---	30%		
Methyl tert-butyl ether (MTBE)	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
Naphthalene	ND	53.4	107	ug/kg dry	50	---	ND	---	---	---	30%		
n-Propylbenzene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
Styrene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1,2-Tetrachloroethane	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2,2-Tetrachloroethane	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
Tetrachloroethene (PCE)	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
Toluene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,3-Trichlorobenzene	ND	133	267	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,4-Trichlorobenzene	ND	133	267	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1-Trichloroethane	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2-Trichloroethane	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0019 - EPA 5035A						Soil							
Duplicate (23G0019-DUP1)			Prepared: 06/29/23 12:39 Analyzed: 07/03/23 16:01						TEMP, V-15				
QC Source Sample: Non-SDG (A3F1641-01)													
Trichloroethene (TCE)	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
Trichlorofluoromethane	ND	53.4	107	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,3-Trichloropropane	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,4-Trimethylbenzene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
1,3,5-Trimethylbenzene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
Vinyl chloride	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
m,p-Xylene	ND	26.7	53.4	ug/kg dry	50	---	ND	---	---	---	30%		
o-Xylene	ND	13.3	26.7	ug/kg dry	50	---	ND	---	---	---	30%		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>79-120 %</i>		<i>"</i>							

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0116 - EPA 5035A						Soil						
Blank (23G0116-BLK1)			Prepared: 07/06/23 10:46 Analyzed: 07/06/23 12:22									
<u>5035A/8260D</u>												
Acetone	ND	500	1000	ug/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Benzene	ND	5.00	10.0	ug/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	500	500	ug/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	250	250	ug/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	100	100	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Apex Laboratories

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



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc.	Project: Gasco - Soil Residuals	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3F1688 - 07 10 23 1742

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 23G0116 - EPA 5035A						Soil						
Blank (23G0116-BLK1)			Prepared: 07/06/23 10:46 Analyzed: 07/06/23 12:22									
1,2-Dichloropropane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Styrene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	125	250	ug/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	50.0	100	ug/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	25.0	50.0	ug/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	12.5	25.0	ug/kg wet	50	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 98 % Limits: 80-120 % Dilution: 1x

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0116 - EPA 5035A						Soil						
Blank (23G0116-BLK1)						Prepared: 07/06/23 10:46 Analyzed: 07/06/23 12:22						
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>79-120 %</i>		<i>"</i>						
LCS (23G0116-BS1)						Prepared: 07/06/23 10:46 Analyzed: 07/06/23 11:27						
5035A/8260D												
Acetone	1840	500	1000	ug/kg wet	50	2000	---	92	80-120%	---	---	
Acrylonitrile	968	50.0	100	ug/kg wet	50	1000	---	97	80-120%	---	---	
Benzene	1010	5.00	10.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
Bromobenzene	922	12.5	25.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
Bromochloromethane	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
Bromodichloromethane	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
Bromoform	936	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
Bromomethane	1030	500	500	ug/kg wet	50	1000	---	103	80-120%	---	---	
2-Butanone (MEK)	1870	250	500	ug/kg wet	50	2000	---	93	80-120%	---	---	
n-Butylbenzene	952	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
sec-Butylbenzene	973	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
tert-Butylbenzene	929	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Carbon disulfide	806	250	500	ug/kg wet	50	1000	---	81	80-120%	---	---	
Carbon tetrachloride	1120	25.0	50.0	ug/kg wet	50	1000	---	112	80-120%	---	---	
Chlorobenzene	977	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Chloroethane	1160	250	500	ug/kg wet	50	1000	---	116	80-120%	---	---	
Chloroform	992	25.0	50.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Chloromethane	666	250	250	ug/kg wet	50	1000	---	67	80-120%	---	---	Q-55
2-Chlorotoluene	942	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
4-Chlorotoluene	944	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Dibromochloromethane	1080	50.0	100	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,2-Dibromo-3-chloropropane	840	125	250	ug/kg wet	50	1000	---	84	80-120%	---	---	
1,2-Dibromoethane (EDB)	938	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Dibromomethane	997	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
1,2-Dichlorobenzene	966	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,3-Dichlorobenzene	972	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
1,4-Dichlorobenzene	944	12.5	25.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
Dichlorodifluoromethane	515	100	100	ug/kg wet	50	1000	---	52	80-120%	---	---	Q-55
1,1-Dichloroethane	1020	12.5	25.0	ug/kg wet	50	1000	---	102	80-120%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0116 - EPA 5035A						Soil						
LCS (23G0116-BS1)			Prepared: 07/06/23 10:46 Analyzed: 07/06/23 11:27									
1,2-Dichloroethane (EDC)	1040	12.5	25.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
1,1-Dichloroethene	980	12.5	25.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
cis-1,2-Dichloroethene	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
trans-1,2-Dichloroethene	988	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
1,2-Dichloropropane	1010	12.5	25.0	ug/kg wet	50	1000	---	101	80-120%	---	---	
1,3-Dichloropropane	978	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
2,2-Dichloropropane	1020	25.0	50.0	ug/kg wet	50	1000	---	102	80-120%	---	---	
1,1-Dichloropropene	1040	25.0	50.0	ug/kg wet	50	1000	---	104	80-120%	---	---	
cis-1,3-Dichloropropene	997	25.0	50.0	ug/kg wet	50	1000	---	100	80-120%	---	---	
trans-1,3-Dichloropropene	980	25.0	50.0	ug/kg wet	50	1000	---	98	80-120%	---	---	
Ethylbenzene	930	12.5	25.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
Hexachlorobutadiene	934	50.0	100	ug/kg wet	50	1000	---	93	80-120%	---	---	
2-Hexanone	1640	250	500	ug/kg wet	50	2000	---	82	80-120%	---	---	
Isopropylbenzene	948	25.0	50.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
4-Isopropyltoluene	974	25.0	50.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Methylene chloride	1060	250	500	ug/kg wet	50	1000	---	106	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1730	250	500	ug/kg wet	50	2000	---	86	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	917	25.0	50.0	ug/kg wet	50	1000	---	92	80-120%	---	---	
Naphthalene	888	50.0	100	ug/kg wet	50	1000	---	89	80-120%	---	---	
n-Propylbenzene	950	12.5	25.0	ug/kg wet	50	1000	---	95	80-120%	---	---	
Styrene	914	25.0	50.0	ug/kg wet	50	1000	---	91	80-120%	---	---	
1,1,1,2-Tetrachloroethane	1070	12.5	25.0	ug/kg wet	50	1000	---	107	80-120%	---	---	
1,1,2,2-Tetrachloroethane	802	25.0	50.0	ug/kg wet	50	1000	---	80	80-120%	---	---	
Tetrachloroethene (PCE)	994	12.5	25.0	ug/kg wet	50	1000	---	99	80-120%	---	---	
Toluene	932	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,2,3-Trichlorobenzene	916	125	250	ug/kg wet	50	1000	---	92	80-120%	---	---	
1,2,4-Trichlorobenzene	881	125	250	ug/kg wet	50	1000	---	88	80-120%	---	---	
1,1,1-Trichloroethane	1080	12.5	25.0	ug/kg wet	50	1000	---	108	80-120%	---	---	
1,1,2-Trichloroethane	966	12.5	25.0	ug/kg wet	50	1000	---	97	80-120%	---	---	
Trichloroethene (TCE)	1100	12.5	25.0	ug/kg wet	50	1000	---	110	80-120%	---	---	
Trichlorofluoromethane	935	50.0	100	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,2,3-Trichloropropane	944	25.0	50.0	ug/kg wet	50	1000	---	94	80-120%	---	---	
1,2,4-Trimethylbenzene	933	25.0	50.0	ug/kg wet	50	1000	---	93	80-120%	---	---	
1,3,5-Trimethylbenzene	964	25.0	50.0	ug/kg wet	50	1000	---	96	80-120%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0116 - EPA 5035A						Soil						
LCS (23G0116-BS1)			Prepared: 07/06/23 10:46 Analyzed: 07/06/23 11:27									
Vinyl chloride	836	12.5	25.0	ug/kg wet	50	1000	---	84	80-120%	---	---	
m,p-Xylene	1850	25.0	50.0	ug/kg wet	50	2000	---	92	80-120%	---	---	
o-Xylene	902	12.5	25.0	ug/kg wet	50	1000	---	90	80-120%	---	---	
<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>101 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>79-120 %</i>		<i>"</i>						

Duplicate (23G0116-DUP1) Prepared: 07/05/23 16:35 Analyzed: 07/06/23 20:27 **TEMP**

QC Source Sample: Non-SDG (A3G0769-01)

Acetone	ND	600	1200	ug/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	60.0	120	ug/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	6.00	12.0	ug/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	60.0	120	ug/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	600	600	ug/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	300	600	ug/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	300	600	ug/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	518	30.0	60.0	ug/kg dry	50	---	511	---	---	1	30%
Chlorobenzene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	300	600	ug/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	300	300	ug/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	60.0	120	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	150	300	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
Dibromomethane	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0116 - EPA 5035A						Soil							
Duplicate (23G0116-DUP1)			Prepared: 07/05/23 16:35 Analyzed: 07/06/23 20:27						TEMP				
QC Source Sample: Non-SDG (A3G0769-01)													
1,3-Dichlorobenzene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,4-Dichlorobenzene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
Dichlorodifluoromethane	ND	120	120	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethane	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloroethane (EDC)	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloroethene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,2-Dichloroethene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,2-Dichloroethene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,2-Dichloropropane	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,3-Dichloropropane	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
2,2-Dichloropropane	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,1-Dichloropropene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
cis-1,3-Dichloropropene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
trans-1,3-Dichloropropene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
Ethylbenzene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
Hexachlorobutadiene	ND	60.0	120	ug/kg dry	50	---	ND	---	---	---	30%		
2-Hexanone	ND	300	600	ug/kg dry	50	---	ND	---	---	---	30%		
Isopropylbenzene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
4-Isopropyltoluene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
Methylene chloride	ND	300	600	ug/kg dry	50	---	ND	---	---	---	30%		
4-Methyl-2-pentanone (MiBK)	ND	300	600	ug/kg dry	50	---	ND	---	---	---	30%		
Methyl tert-butyl ether (MTBE)	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
Naphthalene	ND	60.0	120	ug/kg dry	50	---	ND	---	---	---	30%		
n-Propylbenzene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
Styrene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1,2-Tetrachloroethane	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2,2-Tetrachloroethane	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
Tetrachloroethene (PCE)	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
Toluene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,3-Trichlorobenzene	ND	150	300	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,4-Trichlorobenzene	ND	150	300	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,1-Trichloroethane	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,1,2-Trichloroethane	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0116 - EPA 5035A						Soil							
Duplicate (23G0116-DUP1)			Prepared: 07/05/23 16:35 Analyzed: 07/06/23 20:27						TEMP				
QC Source Sample: Non-SDG (A3G0769-01)													
Trichloroethene (TCE)	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
Trichlorofluoromethane	ND	60.0	120	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,3-Trichloropropane	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,2,4-Trimethylbenzene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
1,3,5-Trimethylbenzene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
Vinyl chloride	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
m,p-Xylene	ND	30.0	60.0	ug/kg dry	50	---	ND	---	---	---	30%		
o-Xylene	ND	15.0	30.0	ug/kg dry	50	---	ND	---	---	---	30%		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>79-120 %</i>		<i>"</i>							

Matrix Spike (23G0116-MS1)						Prepared: 07/05/23 16:35 Analyzed: 07/06/23 21:17						TEMP
QC Source Sample: Non-SDG (A3G0769-02)												
5035A/8260D												
Acetone	2960	719	1440	ug/kg dry	50	2870	ND	103	36-164%	---	---	
Acrylonitrile	1530	71.9	144	ug/kg dry	50	1440	ND	107	65-134%	---	---	
Benzene	1600	7.19	14.4	ug/kg dry	50	1440	ND	111	77-121%	---	---	
Bromobenzene	1330	18.0	36.0	ug/kg dry	50	1440	ND	93	78-121%	---	---	
Bromochloromethane	1710	36.0	71.9	ug/kg dry	50	1440	ND	119	78-125%	---	---	
Bromodichloromethane	1630	36.0	71.9	ug/kg dry	50	1440	ND	113	75-127%	---	---	
Bromoform	1410	71.9	144	ug/kg dry	50	1440	ND	98	67-132%	---	---	
Bromomethane	1690	719	719	ug/kg dry	50	1440	ND	118	53-143%	---	---	
2-Butanone (MEK)	2930	360	719	ug/kg dry	50	2870	ND	102	51-148%	---	---	
n-Butylbenzene	1340	36.0	71.9	ug/kg dry	50	1440	ND	93	70-128%	---	---	
sec-Butylbenzene	1410	36.0	71.9	ug/kg dry	50	1440	ND	98	73-126%	---	---	
tert-Butylbenzene	1310	36.0	71.9	ug/kg dry	50	1440	ND	91	73-125%	---	---	
Carbon disulfide	1500	360	719	ug/kg dry	50	1440	ND	104	63-132%	---	---	
Carbon tetrachloride	1820	36.0	71.9	ug/kg dry	50	1440	ND	126	70-135%	---	---	
Chlorobenzene	1460	18.0	36.0	ug/kg dry	50	1440	ND	101	79-120%	---	---	
Chloroethane	2130	360	719	ug/kg dry	50	1440	ND	148	59-139%	---	---	Q-01
Chloroform	1540	36.0	71.9	ug/kg dry	50	1440	ND	107	78-123%	---	---	
Chloromethane	1500	360	360	ug/kg dry	50	1440	ND	104	50-136%	---	---	Q-54f

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0116 - EPA 5035A						Soil						
Matrix Spike (23G0116-MS1)						Prepared: 07/05/23 16:35 Analyzed: 07/06/23 21:17						TEMP
QC Source Sample: Non-SDG (A3G0769-02)												
2-Chlorotoluene	1340	36.0	71.9	ug/kg dry	50	1440	ND	93	75-122%	---	---	
4-Chlorotoluene	1380	36.0	71.9	ug/kg dry	50	1440	ND	96	72-124%	---	---	
Dibromochloromethane	1620	71.9	144	ug/kg dry	50	1440	ND	112	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1230	180	360	ug/kg dry	50	1440	ND	85	61-132%	---	---	
1,2-Dibromoethane (EDB)	1380	36.0	71.9	ug/kg dry	50	1440	ND	96	78-122%	---	---	
Dibromomethane	1540	36.0	71.9	ug/kg dry	50	1440	ND	107	78-125%	---	---	
1,2-Dichlorobenzene	1360	18.0	36.0	ug/kg dry	50	1440	ND	95	78-121%	---	---	
1,3-Dichlorobenzene	1380	18.0	36.0	ug/kg dry	50	1440	ND	96	77-121%	---	---	
1,4-Dichlorobenzene	1350	18.0	36.0	ug/kg dry	50	1440	ND	94	75-120%	---	---	
Dichlorodifluoromethane	1560	144	144	ug/kg dry	50	1440	ND	109	29-149%	---	---	Q-54g
1,1-Dichloroethane	1640	18.0	36.0	ug/kg dry	50	1440	ND	114	76-125%	---	---	
1,2-Dichloroethane (EDC)	1610	18.0	36.0	ug/kg dry	50	1440	ND	112	73-128%	---	---	
1,1-Dichloroethene	1660	18.0	36.0	ug/kg dry	50	1440	ND	115	70-131%	---	---	
cis-1,2-Dichloroethene	1570	18.0	36.0	ug/kg dry	50	1440	ND	109	77-123%	---	---	
trans-1,2-Dichloroethene	1570	18.0	36.0	ug/kg dry	50	1440	ND	109	74-125%	---	---	
1,2-Dichloropropane	1580	18.0	36.0	ug/kg dry	50	1440	ND	110	76-123%	---	---	
1,3-Dichloropropane	1450	36.0	71.9	ug/kg dry	50	1440	ND	101	77-121%	---	---	
2,2-Dichloropropane	1350	36.0	71.9	ug/kg dry	50	1440	ND	94	67-133%	---	---	
1,1-Dichloropropene	1610	36.0	71.9	ug/kg dry	50	1440	ND	112	76-125%	---	---	
cis-1,3-Dichloropropene	1440	36.0	71.9	ug/kg dry	50	1440	ND	101	74-126%	---	---	
trans-1,3-Dichloropropene	1420	36.0	71.9	ug/kg dry	50	1440	ND	99	71-130%	---	---	
Ethylbenzene	1390	18.0	36.0	ug/kg dry	50	1440	ND	97	76-122%	---	---	
Hexachlorobutadiene	1280	71.9	144	ug/kg dry	50	1440	ND	89	61-135%	---	---	
2-Hexanone	2270	360	719	ug/kg dry	50	2870	ND	79	53-145%	---	---	
Isopropylbenzene	1350	36.0	71.9	ug/kg dry	50	1440	ND	94	68-134%	---	---	
4-Isopropyltoluene	1360	36.0	71.9	ug/kg dry	50	1440	ND	94	73-127%	---	---	
Methylene chloride	1720	360	719	ug/kg dry	50	1440	ND	120	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	2570	360	719	ug/kg dry	50	2870	ND	89	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1350	36.0	71.9	ug/kg dry	50	1440	ND	94	73-125%	---	---	
Naphthalene	1130	71.9	144	ug/kg dry	50	1440	ND	79	62-129%	---	---	
n-Propylbenzene	1410	18.0	36.0	ug/kg dry	50	1440	ND	98	73-125%	---	---	
Styrene	1360	36.0	71.9	ug/kg dry	50	1440	ND	95	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1610	18.0	36.0	ug/kg dry	50	1440	ND	112	78-125%	---	---	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0116 - EPA 5035A						Soil						
Matrix Spike (23G0116-MS1)						Prepared: 07/05/23 16:35 Analyzed: 07/06/23 21:17						TEMP
QC Source Sample: Non-SDG (A3G0769-02)												
1,1,2,2-Tetrachloroethane	1240	36.0	71.9	ug/kg dry	50	1440	ND	86	70-124%	---	---	
Tetrachloroethene (PCE)	1460	18.0	36.0	ug/kg dry	50	1440	ND	101	73-128%	---	---	
Toluene	1420	36.0	71.9	ug/kg dry	50	1440	ND	98	77-121%	---	---	
1,2,3-Trichlorobenzene	1210	180	360	ug/kg dry	50	1440	ND	84	66-130%	---	---	
1,2,4-Trichlorobenzene	1130	180	360	ug/kg dry	50	1440	ND	78	67-129%	---	---	
1,1,1-Trichloroethane	1690	18.0	36.0	ug/kg dry	50	1440	ND	117	73-130%	---	---	
1,1,2-Trichloroethane	1440	18.0	36.0	ug/kg dry	50	1440	ND	101	78-121%	---	---	
Trichloroethene (TCE)	1650	18.0	36.0	ug/kg dry	50	1440	ND	115	77-123%	---	---	
Trichlorofluoromethane	4850	71.9	144	ug/kg dry	50	1440	ND	337	62-140%	---	---	Q-01
1,2,3-Trichloropropane	1410	36.0	71.9	ug/kg dry	50	1440	ND	98	73-125%	---	---	
1,2,4-Trimethylbenzene	1350	36.0	71.9	ug/kg dry	50	1440	ND	94	75-123%	---	---	
1,3,5-Trimethylbenzene	1400	36.0	71.9	ug/kg dry	50	1440	ND	98	73-124%	---	---	
Vinyl chloride	1710	18.0	36.0	ug/kg dry	50	1440	ND	119	56-135%	---	---	
m,p-Xylene	2750	36.0	71.9	ug/kg dry	50	2870	ND	96	77-124%	---	---	
o-Xylene	1260	18.0	36.0	ug/kg dry	50	1440	ND	88	77-123%	---	---	
<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>102 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>91 %</i>		<i>79-120 %</i>		<i>"</i>						

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
Blank (23G0124-BLK1)						Prepared: 07/06/23 10:00 Analyzed: 07/06/23 13:21						TCLPa
<u>1311/8260D</u>												
Acetone	ND	500	1000	ug/L	50	---	---	---	---	---	---	
Benzene	ND	6.25	12.5	ug/L	50	---	---	---	---	---	---	
Bromobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Bromochloromethane	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Bromoform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Bromomethane	ND	250	250	ug/L	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	---	---	---	---	---	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Chloroethane	ND	250	250	ug/L	50	---	---	---	---	---	---	
Chloroform	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
Chloromethane	ND	125	250	ug/L	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	250	250	ug/L	50	---	---	---	---	---	---	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Dibromomethane	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
1,1-Dichloroethane	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	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water							
Blank (23G0124-BLK1)			Prepared: 07/06/23 10:00 Analyzed: 07/06/23 13:21						TCLPa				
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
Ethylbenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
Hexachlorobutadiene	ND	125	250	ug/L	50	---	---	---	---	---	---		
2-Hexanone	ND	500	500	ug/L	50	---	---	---	---	---	---		
Isopropylbenzene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/L	50	---	---	---	---	---	---		
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
Methylene chloride	ND	250	500	ug/L	50	---	---	---	---	---	---		
n-Propylbenzene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
Styrene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
Naphthalene	ND	100	100	ug/L	50	---	---	---	---	---	---		
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
Toluene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
1,2,3-Trichlorobenzene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
1,2,4-Trichlorobenzene	ND	100	100	ug/L	50	---	---	---	---	---	---		
1,1,1-Trichloroethane	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
Trichlorofluoromethane	ND	50.0	100	ug/L	50	---	---	---	---	---	---		
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
m,p-Xylene	ND	25.0	50.0	ug/L	50	---	---	---	---	---	---		
o-Xylene	ND	12.5	25.0	ug/L	50	---	---	---	---	---	---		
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>							
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>		<i>"</i>							
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>							

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
LCS (23G0124-BS1)						Prepared: 07/06/23 10:00 Analyzed: 07/06/23 12:36						TCLPa
1311/8260D												
Acetone	1690	500	1000	ug/L	50	2000	---	85	80-120%	---	---	
Benzene	1050	6.25	12.5	ug/L	50	1000	---	105	80-120%	---	---	
Bromobenzene	927	12.5	25.0	ug/L	50	1000	---	93	80-120%	---	---	
Bromochloromethane	1130	25.0	50.0	ug/L	50	1000	---	113	80-120%	---	---	
Bromodichloromethane	1060	25.0	50.0	ug/L	50	1000	---	106	80-120%	---	---	
Bromoform	1010	25.0	50.0	ug/L	50	1000	---	101	80-120%	---	---	
Bromomethane	1370	250	250	ug/L	50	1000	---	137	80-120%	---	---	Q-56
2-Butanone (MEK)	1750	250	500	ug/L	50	2000	---	88	80-120%	---	---	
n-Butylbenzene	944	25.0	50.0	ug/L	50	1000	---	94	80-120%	---	---	
sec-Butylbenzene	978	25.0	50.0	ug/L	50	1000	---	98	80-120%	---	---	
tert-Butylbenzene	866	25.0	50.0	ug/L	50	1000	---	87	80-120%	---	---	
Carbon tetrachloride	1090	25.0	50.0	ug/L	50	1000	---	109	80-120%	---	---	
Chlorobenzene	1010	12.5	25.0	ug/L	50	1000	---	101	80-120%	---	---	
Chloroethane	1230	250	250	ug/L	50	1000	---	123	80-120%	---	---	Q-56
Chloroform	1060	25.0	50.0	ug/L	50	1000	---	106	80-120%	---	---	
Chloromethane	1030	125	250	ug/L	50	1000	---	103	80-120%	---	---	
2-Chlorotoluene	932	25.0	50.0	ug/L	50	1000	---	93	80-120%	---	---	
4-Chlorotoluene	936	25.0	50.0	ug/L	50	1000	---	94	80-120%	---	---	
1,2-Dibromo-3-chloropropane	738	250	250	ug/L	50	1000	---	74	80-120%	---	---	Q-55
Dibromochloromethane	984	25.0	50.0	ug/L	50	1000	---	98	80-120%	---	---	
1,2-Dibromoethane (EDB)	974	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
Dibromomethane	1090	25.0	50.0	ug/L	50	1000	---	109	80-120%	---	---	
1,2-Dichlorobenzene	966	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
1,3-Dichlorobenzene	970	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
1,4-Dichlorobenzene	966	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
Dichlorodifluoromethane	1140	25.0	50.0	ug/L	50	1000	---	114	80-120%	---	---	
1,1-Dichloroethane	1070	12.5	25.0	ug/L	50	1000	---	107	80-120%	---	---	
1,1-Dichloroethene	1100	12.5	25.0	ug/L	50	1000	---	110	80-120%	---	---	
1,2-Dichloroethane (EDC)	1050	12.5	25.0	ug/L	50	1000	---	105	80-120%	---	---	
cis-1,2-Dichloroethene	986	25.0	50.0	ug/L	50	1000	---	99	80-120%	---	---	
trans-1,2-Dichloroethene	1010	12.5	25.0	ug/L	50	1000	---	101	80-120%	---	---	
1,2-Dichloropropane	1010	12.5	25.0	ug/L	50	1000	---	101	80-120%	---	---	
1,3-Dichloropropane	952	25.0	50.0	ug/L	50	1000	---	95	80-120%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
LCS (23G0124-BS1)						Prepared: 07/06/23 10:00 Analyzed: 07/06/23 12:36						TCLPa
2,2-Dichloropropane	1100	25.0	50.0	ug/L	50	1000	---	110	80-120%	---	---	
1,1-Dichloropropene	988	25.0	50.0	ug/L	50	1000	---	99	80-120%	---	---	
cis-1,3-Dichloropropene	943	25.0	50.0	ug/L	50	1000	---	94	80-120%	---	---	
trans-1,3-Dichloropropene	970	25.0	50.0	ug/L	50	1000	---	97	80-120%	---	---	
Ethylbenzene	972	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
Hexachlorobutadiene	902	125	250	ug/L	50	1000	---	90	80-120%	---	---	
2-Hexanone	1380	500	500	ug/L	50	2000	---	69	80-120%	---	---	Q-55
Isopropylbenzene	914	25.0	50.0	ug/L	50	1000	---	91	80-120%	---	---	
4-Isopropyltoluene	906	25.0	50.0	ug/L	50	1000	---	91	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1600	250	500	ug/L	50	2000	---	80	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	970	25.0	50.0	ug/L	50	1000	---	97	80-120%	---	---	
Methylene chloride	1160	250	500	ug/L	50	1000	---	116	80-120%	---	---	
n-Propylbenzene	956	12.5	25.0	ug/L	50	1000	---	96	80-120%	---	---	
Styrene	930	25.0	50.0	ug/L	50	1000	---	93	80-120%	---	---	
1,1,1,2-Tetrachloroethane	994	12.5	25.0	ug/L	50	1000	---	99	80-120%	---	---	
1,1,2,2-Tetrachloroethane	967	12.5	25.0	ug/L	50	1000	---	97	80-120%	---	---	
Naphthalene	683	100	100	ug/L	50	1000	---	68	80-120%	---	---	Q-55
Tetrachloroethene (PCE)	1000	12.5	25.0	ug/L	50	1000	---	100	80-120%	---	---	
Toluene	944	25.0	50.0	ug/L	50	1000	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	800	25.0	50.0	ug/L	50	1000	---	80	80-120%	---	---	
1,2,4-Trichlorobenzene	790	100	100	ug/L	50	1000	---	79	80-120%	---	---	Q-55
1,1,1-Trichloroethane	1060	12.5	25.0	ug/L	50	1000	---	106	80-120%	---	---	
1,1,2-Trichloroethane	986	12.5	25.0	ug/L	50	1000	---	99	80-120%	---	---	
Trichloroethene (TCE)	1070	12.5	25.0	ug/L	50	1000	---	107	80-120%	---	---	
Trichlorofluoromethane	1280	50.0	100	ug/L	50	1000	---	128	80-120%	---	---	Q-56
1,2,3-Trichloropropane	936	25.0	50.0	ug/L	50	1000	---	94	80-120%	---	---	
1,2,4-Trimethylbenzene	948	25.0	50.0	ug/L	50	1000	---	95	80-120%	---	---	
1,3,5-Trimethylbenzene	962	25.0	50.0	ug/L	50	1000	---	96	80-120%	---	---	
Vinyl chloride	1140	12.5	25.0	ug/L	50	1000	---	114	80-120%	---	---	
m,p-Xylene	1980	25.0	50.0	ug/L	50	2000	---	99	80-120%	---	---	
o-Xylene	858	12.5	25.0	ug/L	50	1000	---	86	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>92 %</i>		<i>80-120 %</i>		<i>"</i>						

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
Duplicate (23G0124-DUP1)			Prepared: 07/06/23 10:00 Analyzed: 07/06/23 15:14									
QC Source Sample: Non-SDG (A3F1635-02)												
Acetone	ND	500	1000	ug/L	50	---	ND	---	---	---	30%	
Benzene	ND	6.25	12.5	ug/L	50	---	ND	---	---	---	30%	
Bromobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromoform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromomethane	ND	250	250	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroethane	ND	250	250	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chloromethane	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	250	250	ug/L	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Dibromomethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
Duplicate (23G0124-DUP1)			Prepared: 07/06/23 10:00 Analyzed: 07/06/23 15:14									
QC Source Sample: Non-SDG (A3F1635-02)												
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
2-Hexanone	ND	500	500	ug/L	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Methylene chloride	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Styrene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Naphthalene	ND	100	100	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Toluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	100	100	ug/L	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
o-Xylene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	

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

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
Duplicate (23G0124-DUP1)			Prepared: 07/06/23 10:00 Analyzed: 07/06/23 15:14									
QC Source Sample: Non-SDG (A3F1635-02)												
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						
Matrix Spike (23G0124-MS1)						Prepared: 07/06/23 10:00 Analyzed: 07/06/23 15:59						
QC Source Sample: Non-SDG (A3F1635-01)												
1311/8260D												
Acetone	1760	500	1000	ug/L	50	2000	ND	88	39-160%	---	---	
Benzene	1090	6.25	12.5	ug/L	50	1000	ND	109	79-120%	---	---	
Bromobenzene	908	12.5	25.0	ug/L	50	1000	ND	91	80-120%	---	---	
Bromochloromethane	1130	25.0	50.0	ug/L	50	1000	ND	113	78-123%	---	---	
Bromodichloromethane	1060	25.0	50.0	ug/L	50	1000	ND	106	79-125%	---	---	
Bromoform	994	25.0	50.0	ug/L	50	1000	ND	99	66-130%	---	---	
Bromomethane	1590	250	250	ug/L	50	1000	ND	159	53-141%	---	---	Q-54
2-Butanone (MEK)	1830	250	500	ug/L	50	2000	ND	91	56-143%	---	---	
n-Butylbenzene	958	25.0	50.0	ug/L	50	1000	ND	96	75-128%	---	---	
sec-Butylbenzene	1000	25.0	50.0	ug/L	50	1000	ND	100	77-126%	---	---	
tert-Butylbenzene	873	25.0	50.0	ug/L	50	1000	ND	87	78-124%	---	---	
Carbon tetrachloride	1160	25.0	50.0	ug/L	50	1000	ND	116	72-136%	---	---	
Chlorobenzene	1020	12.5	25.0	ug/L	50	1000	ND	102	80-120%	---	---	
Chloroethane	1340	250	250	ug/L	50	1000	ND	134	60-138%	---	---	Q-54a
Chloroform	1090	25.0	50.0	ug/L	50	1000	ND	109	79-124%	---	---	
Chloromethane	1080	125	250	ug/L	50	1000	ND	108	50-139%	---	---	
2-Chlorotoluene	926	25.0	50.0	ug/L	50	1000	ND	93	79-122%	---	---	
4-Chlorotoluene	930	25.0	50.0	ug/L	50	1000	ND	93	78-122%	---	---	
1,2-Dibromo-3-chloropropane	734	250	250	ug/L	50	1000	ND	73	62-128%	---	---	Q-54h
Dibromochloromethane	966	25.0	50.0	ug/L	50	1000	ND	97	74-126%	---	---	
1,2-Dibromoethane (EDB)	958	12.5	25.0	ug/L	50	1000	ND	96	77-121%	---	---	
Dibromomethane	1100	25.0	50.0	ug/L	50	1000	ND	110	79-123%	---	---	
1,2-Dichlorobenzene	949	12.5	25.0	ug/L	50	1000	ND	95	80-120%	---	---	
1,3-Dichlorobenzene	953	12.5	25.0	ug/L	50	1000	ND	95	80-120%	---	---	
1,4-Dichlorobenzene	945	12.5	25.0	ug/L	50	1000	ND	94	79-120%	---	---	
Dichlorodifluoromethane	1230	25.0	50.0	ug/L	50	1000	ND	123	32-152%	---	---	
1,1-Dichloroethane	1110	12.5	25.0	ug/L	50	1000	ND	111	77-125%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
Matrix Spike (23G0124-MS1)						Prepared: 07/06/23 10:00 Analyzed: 07/06/23 15:59						
QC Source Sample: Non-SDG (A3F1635-01)												
1,1-Dichloroethene	1170	12.5	25.0	ug/L	50	1000	ND	117	71-131%	---	---	
1,2-Dichloroethane (EDC)	1050	12.5	25.0	ug/L	50	1000	ND	105	73-128%	---	---	
cis-1,2-Dichloroethene	1010	25.0	50.0	ug/L	50	1000	ND	101	78-123%	---	---	
trans-1,2-Dichloroethene	1060	12.5	25.0	ug/L	50	1000	ND	106	75-124%	---	---	
1,2-Dichloropropane	1030	12.5	25.0	ug/L	50	1000	ND	103	78-122%	---	---	
1,3-Dichloropropane	946	25.0	50.0	ug/L	50	1000	ND	95	80-120%	---	---	
2,2-Dichloropropane	1110	25.0	50.0	ug/L	50	1000	ND	111	60-139%	---	---	
1,1-Dichloropropene	1030	25.0	50.0	ug/L	50	1000	ND	103	79-125%	---	---	
cis-1,3-Dichloropropene	934	25.0	50.0	ug/L	50	1000	ND	93	75-124%	---	---	
trans-1,3-Dichloropropene	938	25.0	50.0	ug/L	50	1000	ND	94	73-127%	---	---	
Ethylbenzene	992	12.5	25.0	ug/L	50	1000	ND	99	79-121%	---	---	
Hexachlorobutadiene	921	125	250	ug/L	50	1000	ND	92	66-134%	---	---	
2-Hexanone	1360	500	500	ug/L	50	2000	ND	68	57-139%	---	---	Q-54d
Isopropylbenzene	938	25.0	50.0	ug/L	50	1000	ND	94	72-131%	---	---	
4-Isopropyltoluene	920	25.0	50.0	ug/L	50	1000	ND	92	77-127%	---	---	
4-Methyl-2-pentanone (MIBK)	1570	250	500	ug/L	50	2000	ND	79	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	954	25.0	50.0	ug/L	50	1000	ND	95	71-124%	---	---	
Methylene chloride	1180	250	500	ug/L	50	1000	ND	118	74-124%	---	---	
n-Propylbenzene	976	12.5	25.0	ug/L	50	1000	ND	98	76-126%	---	---	
Styrene	929	25.0	50.0	ug/L	50	1000	ND	93	78-123%	---	---	
1,1,1,2-Tetrachloroethane	991	12.5	25.0	ug/L	50	1000	ND	99	78-124%	---	---	
1,1,2,2-Tetrachloroethane	944	12.5	25.0	ug/L	50	1000	ND	94	71-121%	---	---	
Naphthalene	648	100	100	ug/L	50	1000	ND	65	61-128%	---	---	Q-54e
Tetrachloroethene (PCE)	1020	12.5	25.0	ug/L	50	1000	ND	102	74-129%	---	---	
Toluene	962	25.0	50.0	ug/L	50	1000	ND	96	80-121%	---	---	
1,2,3-Trichlorobenzene	766	25.0	50.0	ug/L	50	1000	ND	77	69-129%	---	---	
1,2,4-Trichlorobenzene	748	100	100	ug/L	50	1000	ND	75	69-130%	---	---	Q-54c
1,1,1-Trichloroethane	1110	12.5	25.0	ug/L	50	1000	ND	111	74-131%	---	---	
1,1,2-Trichloroethane	962	12.5	25.0	ug/L	50	1000	ND	96	80-120%	---	---	
Trichloroethene (TCE)	1100	12.5	25.0	ug/L	50	1000	ND	110	79-123%	---	---	
Trichlorofluoromethane	1360	50.0	100	ug/L	50	1000	ND	136	65-141%	---	---	Q-54b
1,2,3-Trichloropropane	951	25.0	50.0	ug/L	50	1000	ND	95	73-122%	---	---	
1,2,4-Trimethylbenzene	939	25.0	50.0	ug/L	50	1000	ND	94	76-124%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
Matrix Spike (23G0124-MS1)			Prepared: 07/06/23 10:00 Analyzed: 07/06/23 15:59									
QC Source Sample: Non-SDG (A3F1635-01)												
1,3,5-Trimethylbenzene	944	25.0	50.0	ug/L	50	1000	ND	94	75-124%	---	---	
Vinyl chloride	1240	12.5	25.0	ug/L	50	1000	ND	124	58-137%	---	---	
m,p-Xylene	2020	25.0	50.0	ug/L	50	2000	ND	101	80-121%	---	---	
o-Xylene	866	12.5	25.0	ug/L	50	1000	ND	87	78-122%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>89 %</i>		<i>80-120 %</i>		<i>"</i>						

Matrix Spike Dup (23G0124-MSD1)			Prepared: 07/06/23 10:00 Analyzed: 07/06/23 16:22									
QC Source Sample: Non-SDG (A3F1635-01)												
Acetone	1880	500	1000	ug/L	50	2000	ND	94	39-160%	6	30%	
Benzene	1120	6.25	12.5	ug/L	50	1000	ND	112	79-120%	3	30%	
Bromobenzene	962	12.5	25.0	ug/L	50	1000	ND	96	80-120%	6	30%	
Bromochloromethane	1160	25.0	50.0	ug/L	50	1000	ND	116	78-123%	2	30%	
Bromodichloromethane	1090	25.0	50.0	ug/L	50	1000	ND	109	79-125%	3	30%	
Bromoform	1020	25.0	50.0	ug/L	50	1000	ND	102	66-130%	3	30%	
Bromomethane	1590	250	250	ug/L	50	1000	ND	159	53-141%	0.09	30%	Q-54
2-Butanone (MEK)	1940	250	500	ug/L	50	2000	ND	97	56-143%	6	30%	
n-Butylbenzene	1030	25.0	50.0	ug/L	50	1000	ND	103	75-128%	7	30%	
sec-Butylbenzene	1070	25.0	50.0	ug/L	50	1000	ND	107	77-126%	6	30%	
tert-Butylbenzene	928	25.0	50.0	ug/L	50	1000	ND	93	78-124%	6	30%	
Carbon tetrachloride	1190	25.0	50.0	ug/L	50	1000	ND	119	72-136%	3	30%	
Chlorobenzene	1050	12.5	25.0	ug/L	50	1000	ND	105	80-120%	3	30%	
Chloroethane	1350	250	250	ug/L	50	1000	ND	135	60-138%	1	30%	Q-54a
Chloroform	1110	25.0	50.0	ug/L	50	1000	ND	111	79-124%	2	30%	
Chloromethane	1130	125	250	ug/L	50	1000	ND	113	50-139%	4	30%	
2-Chlorotoluene	985	25.0	50.0	ug/L	50	1000	ND	98	79-122%	6	30%	
4-Chlorotoluene	978	25.0	50.0	ug/L	50	1000	ND	98	78-122%	5	30%	
1,2-Dibromo-3-chloropropane	774	250	250	ug/L	50	1000	ND	77	62-128%	5	30%	Q-54h
Dibromochloromethane	981	25.0	50.0	ug/L	50	1000	ND	98	74-126%	2	30%	
1,2-Dibromoethane (EDB)	982	12.5	25.0	ug/L	50	1000	ND	98	77-121%	2	30%	
Dibromomethane	1120	25.0	50.0	ug/L	50	1000	ND	112	79-123%	2	30%	
1,2-Dichlorobenzene	998	12.5	25.0	ug/L	50	1000	ND	100	80-120%	5	30%	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
Matrix Spike Dup (23G0124-MSD1)			Prepared: 07/06/23 10:00 Analyzed: 07/06/23 16:22									
QC Source Sample: Non-SDG (A3F1635-01)												
1,3-Dichlorobenzene	1010	12.5	25.0	ug/L	50	1000	ND	101	80-120%	6	30%	
1,4-Dichlorobenzene	1000	12.5	25.0	ug/L	50	1000	ND	100	79-120%	6	30%	
Dichlorodifluoromethane	1280	25.0	50.0	ug/L	50	1000	ND	128	32-152%	4	30%	
1,1-Dichloroethane	1130	12.5	25.0	ug/L	50	1000	ND	113	77-125%	3	30%	
1,1-Dichloroethene	1220	12.5	25.0	ug/L	50	1000	ND	122	71-131%	4	30%	
1,2-Dichloroethane (EDC)	1080	12.5	25.0	ug/L	50	1000	ND	108	73-128%	2	30%	
cis-1,2-Dichloroethene	1050	25.0	50.0	ug/L	50	1000	ND	105	78-123%	3	30%	
trans-1,2-Dichloroethene	1100	12.5	25.0	ug/L	50	1000	ND	110	75-124%	4	30%	
1,2-Dichloropropane	1050	12.5	25.0	ug/L	50	1000	ND	105	78-122%	1	30%	
1,3-Dichloropropane	974	25.0	50.0	ug/L	50	1000	ND	97	80-120%	3	30%	
2,2-Dichloropropane	1140	25.0	50.0	ug/L	50	1000	ND	114	60-139%	2	30%	
1,1-Dichloropropene	1090	25.0	50.0	ug/L	50	1000	ND	109	79-125%	5	30%	
cis-1,3-Dichloropropene	976	25.0	50.0	ug/L	50	1000	ND	98	75-124%	4	30%	
trans-1,3-Dichloropropene	982	25.0	50.0	ug/L	50	1000	ND	98	73-127%	5	30%	
Ethylbenzene	1030	12.5	25.0	ug/L	50	1000	ND	103	79-121%	3	30%	
Hexachlorobutadiene	1010	125	250	ug/L	50	1000	ND	101	66-134%	10	30%	
2-Hexanone	1510	500	500	ug/L	50	2000	ND	75	57-139%	10	30%	Q-54d
Isopropylbenzene	994	25.0	50.0	ug/L	50	1000	ND	99	72-131%	6	30%	
4-Isopropyltoluene	985	25.0	50.0	ug/L	50	1000	ND	98	77-127%	7	30%	
4-Methyl-2-pentanone (MiBK)	1680	250	500	ug/L	50	2000	ND	84	67-130%	7	30%	
Methyl tert-butyl ether (MTBE)	1000	25.0	50.0	ug/L	50	1000	ND	100	71-124%	5	30%	
Methylene chloride	1220	250	500	ug/L	50	1000	ND	122	74-124%	3	30%	
n-Propylbenzene	1030	12.5	25.0	ug/L	50	1000	ND	103	76-126%	5	30%	
Styrene	970	25.0	50.0	ug/L	50	1000	ND	97	78-123%	4	30%	
1,1,1,2-Tetrachloroethane	1000	12.5	25.0	ug/L	50	1000	ND	100	78-124%	1	30%	
1,1,2,2-Tetrachloroethane	988	12.5	25.0	ug/L	50	1000	ND	99	71-121%	5	30%	
Naphthalene	738	100	100	ug/L	50	1000	ND	74	61-128%	13	30%	Q-54e
Tetrachloroethene (PCE)	1080	12.5	25.0	ug/L	50	1000	ND	108	74-129%	6	30%	
Toluene	1000	25.0	50.0	ug/L	50	1000	ND	100	80-121%	4	30%	
1,2,3-Trichlorobenzene	856	25.0	50.0	ug/L	50	1000	ND	86	69-129%	11	30%	
1,2,4-Trichlorobenzene	828	100	100	ug/L	50	1000	ND	83	69-130%	10	30%	Q-54c
1,1,1-Trichloroethane	1150	12.5	25.0	ug/L	50	1000	ND	115	74-131%	4	30%	
1,1,2-Trichloroethane	992	12.5	25.0	ug/L	50	1000	ND	99	80-120%	3	30%	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

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 23G0124 - EPA 1311/5030C TCLP Volatiles						Water						
Matrix Spike Dup (23G0124-MSD1)						Prepared: 07/06/23 10:00 Analyzed: 07/06/23 16:22						
QC Source Sample: Non-SDG (A3F1635-01)												
Trichloroethene (TCE)	1130	12.5	25.0	ug/L	50	1000	ND	113	79-123%	3	30%	
Trichlorofluoromethane	1410	50.0	100	ug/L	50	1000	ND	141	65-141%	3	30%	Q-54b
1,2,3-Trichloropropane	966	25.0	50.0	ug/L	50	1000	ND	97	73-122%	2	30%	
1,2,4-Trimethylbenzene	992	25.0	50.0	ug/L	50	1000	ND	99	76-124%	5	30%	
1,3,5-Trimethylbenzene	1010	25.0	50.0	ug/L	50	1000	ND	101	75-124%	7	30%	
Vinyl chloride	1270	12.5	25.0	ug/L	50	1000	ND	127	58-137%	2	30%	
m,p-Xylene	2080	25.0	50.0	ug/L	50	2000	ND	104	80-121%	3	30%	
o-Xylene	903	12.5	25.0	ug/L	50	1000	ND	90	78-122%	4	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 109 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>90 %</i>		<i>80-120 %</i>		<i>"</i>						

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
Blank (23G0165-BLK2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 16:51									
<u>EPA 8270E</u>												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
Blank (23G0165-BLK2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 16:51									
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
Blank (23G0165-BLK2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 16:51									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 84%</i>		<i>Limits: 37-122%</i>		<i>Dilution: 1x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>89%</i>		<i>44-120%</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>79%</i>		<i>33-122%</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>86%</i>		<i>54-127%</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>82%</i>		<i>35-120%</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>85%</i>		<i>39-132%</i>		<i>"</i>						

LCS (23G0165-BS2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 17:25									
EPA 8270E												
Acenaphthene	518	5.32	10.7	ug/kg wet	4	533	---	97	40-123%	---	---	
Acenaphthylene	517	5.32	10.7	ug/kg wet	4	533	---	97	32-132%	---	---	
Anthracene	540	5.32	10.7	ug/kg wet	4	533	---	101	47-123%	---	---	
Benz(a)anthracene	503	5.32	10.7	ug/kg wet	4	533	---	94	49-126%	---	---	
Benzo(a)pyrene	530	8.00	16.0	ug/kg wet	4	533	---	99	45-129%	---	---	
Benzo(b)fluoranthene	560	8.00	16.0	ug/kg wet	4	533	---	105	45-132%	---	---	
Benzo(k)fluoranthene	592	8.00	16.0	ug/kg wet	4	533	---	111	47-132%	---	---	
Benzo(g,h,i)perylene	526	5.32	10.7	ug/kg wet	4	533	---	99	43-134%	---	---	
Chrysene	503	5.32	10.7	ug/kg wet	4	533	---	94	50-124%	---	---	
Dibenz(a,h)anthracene	506	5.32	10.7	ug/kg wet	4	533	---	95	45-134%	---	---	
Fluoranthene	542	5.32	10.7	ug/kg wet	4	533	---	102	50-127%	---	---	
Fluorene	516	5.32	10.7	ug/kg wet	4	533	---	97	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	481	5.32	10.7	ug/kg wet	4	533	---	90	45-133%	---	---	
1-Methylnaphthalene	470	10.7	21.3	ug/kg wet	4	533	---	88	40-120%	---	---	
2-Methylnaphthalene	511	10.7	21.3	ug/kg wet	4	533	---	96	38-122%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
LCS (23G0165-BS2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 17:25									
Naphthalene	491	10.7	21.3	ug/kg wet	4	533	---	92	35-123%	---	---	
Phenanthrene	508	5.32	10.7	ug/kg wet	4	533	---	95	50-121%	---	---	
Pyrene	548	5.32	10.7	ug/kg wet	4	533	---	103	47-127%	---	---	
Carbazole	516	8.00	16.0	ug/kg wet	4	533	---	97	50-123%	---	---	
Dibenzofuran	544	5.32	10.7	ug/kg wet	4	533	---	102	44-120%	---	---	
2-Chlorophenol	513	26.7	53.2	ug/kg wet	4	533	---	96	34-121%	---	---	
4-Chloro-3-methylphenol	524	53.2	107	ug/kg wet	4	533	---	98	45-122%	---	---	
2,4-Dichlorophenol	529	26.7	53.2	ug/kg wet	4	533	---	99	40-122%	---	---	
2,4-Dimethylphenol	615	26.7	53.2	ug/kg wet	4	533	---	115	30-127%	---	---	
2,4-Dinitrophenol	569	133	267	ug/kg wet	4	533	---	107	10-137%	---	---	
4,6-Dinitro-2-methylphenol	605	133	267	ug/kg wet	4	533	---	113	29-132%	---	---	
2-Methylphenol	509	13.3	26.7	ug/kg wet	4	533	---	95	32-122%	---	---	
3+4-Methylphenol(s)	502	13.3	26.7	ug/kg wet	4	533	---	94	34-120%	---	---	
2-Nitrophenol	571	53.2	107	ug/kg wet	4	533	---	107	36-123%	---	---	
4-Nitrophenol	514	53.2	107	ug/kg wet	4	533	---	96	30-132%	---	---	
Pentachlorophenol (PCP)	480	53.2	107	ug/kg wet	4	533	---	90	25-133%	---	---	
Phenol	511	10.7	21.3	ug/kg wet	4	533	---	96	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	522	26.7	53.2	ug/kg wet	4	533	---	98	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	542	26.7	53.2	ug/kg wet	4	533	---	102	40-120%	---	---	
2,4,5-Trichlorophenol	577	26.7	53.2	ug/kg wet	4	533	---	108	41-124%	---	---	
2,4,6-Trichlorophenol	521	26.7	53.2	ug/kg wet	4	533	---	98	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	508	80.0	160	ug/kg wet	4	533	---	95	51-133%	---	---	
Butyl benzyl phthalate	526	53.2	107	ug/kg wet	4	533	---	99	48-132%	---	---	
Diethylphthalate	541	53.2	107	ug/kg wet	4	533	---	101	50-124%	---	---	
Dimethylphthalate	530	53.2	107	ug/kg wet	4	533	---	99	48-124%	---	---	
Di-n-butylphthalate	562	53.2	107	ug/kg wet	4	533	---	105	51-128%	---	---	
Di-n-octyl phthalate	542	53.2	107	ug/kg wet	4	533	---	102	45-140%	---	---	
N-Nitrosodimethylamine	450	13.3	26.7	ug/kg wet	4	533	---	84	23-120%	---	---	
N-Nitroso-di-n-propylamine	451	13.3	26.7	ug/kg wet	4	533	---	85	36-120%	---	---	
N-Nitrosodiphenylamine	509	13.3	26.7	ug/kg wet	4	533	---	95	38-127%	---	---	
Bis(2-Chloroethoxy) methane	508	13.3	26.7	ug/kg wet	4	533	---	95	36-121%	---	---	
Bis(2-Chloroethyl) ether	437	13.3	26.7	ug/kg wet	4	533	---	82	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	473	13.3	26.7	ug/kg wet	4	533	---	89	39-120%	---	---	
Hexachlorobenzene	490	5.32	10.7	ug/kg wet	4	533	---	92	45-122%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
LCS (23G0165-BS2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 17:25									
Hexachlorobutadiene	498	13.3	26.7	ug/kg wet	4	533	---	93	32-123%	---	---	
Hexachlorocyclopentadiene	607	26.7	53.2	ug/kg wet	4	533	---	114	10-140%	---	---	
Hexachloroethane	492	13.3	26.7	ug/kg wet	4	533	---	92	28-120%	---	---	
2-Chloronaphthalene	576	5.32	10.7	ug/kg wet	4	533	---	108	41-120%	---	---	
1,2,4-Trichlorobenzene	504	13.3	26.7	ug/kg wet	4	533	---	95	34-120%	---	---	
4-Bromophenyl phenyl ether	544	13.3	26.7	ug/kg wet	4	533	---	102	46-124%	---	---	
4-Chlorophenyl phenyl ether	529	13.3	26.7	ug/kg wet	4	533	---	99	45-121%	---	---	
Aniline	396	26.7	53.2	ug/kg wet	4	533	---	74	10-120%	---	---	Q-31
4-Chloroaniline	350	13.3	26.7	ug/kg wet	4	533	---	66	17-120%	---	---	
2-Nitroaniline	541	107	213	ug/kg wet	4	533	---	101	44-127%	---	---	
3-Nitroaniline	482	107	213	ug/kg wet	4	533	---	90	33-120%	---	---	
4-Nitroaniline	495	107	213	ug/kg wet	4	533	---	93	51-125%	---	---	Q-31
Nitrobenzene	463	53.2	107	ug/kg wet	4	533	---	87	34-122%	---	---	
2,4-Dinitrotoluene	561	53.2	107	ug/kg wet	4	533	---	105	48-126%	---	---	
2,6-Dinitrotoluene	547	53.2	107	ug/kg wet	4	533	---	103	46-124%	---	---	
Benzoic acid	861	668	668	ug/kg wet	4	1070	---	81	10-140%	---	---	
Benzyl alcohol	467	26.7	53.2	ug/kg wet	4	533	---	88	29-122%	---	---	
Isophorone	467	13.3	26.7	ug/kg wet	4	533	---	88	30-122%	---	---	
Azobenzene (1,2-DPH)	561	13.3	26.7	ug/kg wet	4	533	---	105	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	531	133	267	ug/kg wet	4	533	---	100	61-121%	---	---	
3,3'-Dichlorobenzidine	2470	107	213	ug/kg wet	4	1070	---	231	22-121%	---	---	Q-29, Q-31, Q-52
1,2-Dinitrobenzene	537	133	267	ug/kg wet	4	533	---	101	44-120%	---	---	
1,3-Dinitrobenzene	540	133	267	ug/kg wet	4	533	---	101	43-127%	---	---	
1,4-Dinitrobenzene	564	133	267	ug/kg wet	4	533	---	106	37-132%	---	---	
Pyridine	401	26.7	53.2	ug/kg wet	4	533	---	75	10-120%	---	---	
1,2-Dichlorobenzene	478	13.3	26.7	ug/kg wet	4	533	---	90	33-120%	---	---	
1,3-Dichlorobenzene	476	13.3	26.7	ug/kg wet	4	533	---	89	30-120%	---	---	
1,4-Dichlorobenzene	473	13.3	26.7	ug/kg wet	4	533	---	89	31-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>109 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>102 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>102 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>92 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>105 %</i>		<i>39-132 %</i>		<i>"</i>						

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
Duplicate (23G0165-DUP2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 19:42									
QC Source Sample: Non-SDG (A3G0729-02RE1)												
Acenaphthene	5.75	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	J, Q-05
Acenaphthylene	ND	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	
Anthracene	ND	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	
Benz(a)anthracene	6.52	5.56	11.2	ug/kg dry	4	---	7.07	---	---	8	30%	J
Benzo(a)pyrene	10.2	8.36	16.7	ug/kg dry	4	---	11.6	---	---	13	30%	J
Benzo(b)fluoranthene	ND	8.36	16.7	ug/kg dry	4	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	8.36	16.7	ug/kg dry	4	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	5.62	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	J, Q-05
Chrysene	ND	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	
Fluoranthene	7.81	5.56	11.2	ug/kg dry	4	---	6.34	---	---	21	30%	J
Fluorene	ND	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	11.2	22.3	ug/kg dry	4	---	ND	---	---	---	30%	
2-Methylnaphthalene	17.4	11.2	22.3	ug/kg dry	4	---	ND	---	---	---	30%	J, Q-05
Naphthalene	34.2	11.2	22.3	ug/kg dry	4	---	ND	---	---	---	30%	Q-05
Phenanthrene	11.6	5.56	11.2	ug/kg dry	4	---	7.45	---	---	44	30%	Q-05
Pyrene	8.04	5.56	11.2	ug/kg dry	4	---	7.67	---	---	5	30%	J
Carbazole	ND	8.36	16.7	ug/kg dry	4	---	ND	---	---	---	30%	
Dibenzofuran	ND	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	
2-Chlorophenol	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	139	279	ug/kg dry	4	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	139	279	ug/kg dry	4	---	ND	---	---	---	30%	
2-Methylphenol	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
2-Nitrophenol	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
4-Nitrophenol	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
Phenol	ND	11.2	22.3	ug/kg dry	4	---	ND	---	---	---	30%	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
Duplicate (23G0165-DUP2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 19:42									
QC Source Sample: Non-SDG (A3G0729-02RE1)												
2,3,4,6-Tetrachlorophenol	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	83.6	167	ug/kg dry	4	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
Diethylphthalate	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
Dimethylphthalate	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
Hexachloroethane	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	5.56	11.2	ug/kg dry	4	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
Aniline	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
4-Chloroaniline	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
2-Nitroaniline	ND	112	223	ug/kg dry	4	---	ND	---	---	---	30%	
3-Nitroaniline	ND	112	223	ug/kg dry	4	---	ND	---	---	---	30%	
4-Nitroaniline	ND	112	223	ug/kg dry	4	---	ND	---	---	---	30%	
Nitrobenzene	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	55.6	112	ug/kg dry	4	---	ND	---	---	---	30%	
Benzoic acid	ND	698	1390	ug/kg dry	4	---	ND	---	---	---	30%	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
Duplicate (23G0165-DUP2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 19:42									
QC Source Sample: Non-SDG (A3G0729-02RE1)												
Benzyl alcohol	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
Isophorone	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	139	279	ug/kg dry	4	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	112	223	ug/kg dry	4	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	139	279	ug/kg dry	4	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	139	279	ug/kg dry	4	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	139	279	ug/kg dry	4	---	ND	---	---	---	30%	
Pyridine	ND	27.9	55.6	ug/kg dry	4	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	13.9	27.9	ug/kg dry	4	---	ND	---	---	---	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 71 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>84 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>93 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>105 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>90 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>103 %</i>		<i>39-132 %</i>		<i>"</i>						

Matrix Spike (23G0165-MS2)			Prepared: 07/07/23 09:35 Analyzed: 07/07/23 20:49									
QC Source Sample: Non-SDG (A3G0729-08RE1)												
EPA 8270E												
Acenaphthene	521	12.9	12.9	ug/kg dry	4	554	ND	94	40-123%	---	---	
Acenaphthylene	525	5.53	11.1	ug/kg dry	4	554	ND	95	32-132%	---	---	
Anthracene	517	5.53	11.1	ug/kg dry	4	554	ND	93	47-123%	---	---	
Benz(a)anthracene	511	5.53	11.1	ug/kg dry	4	554	8.62	91	49-126%	---	---	
Benzo(a)pyrene	550	8.31	16.6	ug/kg dry	4	554	14.8	97	45-129%	---	---	
Benzo(b)fluoranthene	565	8.31	16.6	ug/kg dry	4	554	ND	102	45-132%	---	---	
Benzo(k)fluoranthene	602	8.31	16.6	ug/kg dry	4	554	ND	109	47-132%	---	---	
Benzo(g,h,i)perylene	556	5.53	11.1	ug/kg dry	4	554	ND	100	43-134%	---	---	
Chrysene	524	5.53	11.1	ug/kg dry	4	554	13.4	92	50-124%	---	---	
Dibenz(a,h)anthracene	510	5.53	11.1	ug/kg dry	4	554	ND	92	45-134%	---	---	
Fluoranthene	455	5.53	11.1	ug/kg dry	4	554	21.1	78	50-127%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
Matrix Spike (23G0165-MS2)						Prepared: 07/07/23 09:35 Analyzed: 07/07/23 20:49						
QC Source Sample: Non-SDG (A3G0729-08RE1)												
Fluorene	527	5.53	11.1	ug/kg dry	4	554	11.2	93	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	480	5.53	11.1	ug/kg dry	4	554	ND	87	45-133%	---	---	
1-Methylnaphthalene	554	11.1	22.2	ug/kg dry	4	554	31.2	94	40-120%	---	---	
2-Methylnaphthalene	635	11.1	22.2	ug/kg dry	4	554	25.0	110	38-122%	---	---	
Naphthalene	557	11.1	22.2	ug/kg dry	4	554	67.7	88	35-123%	---	---	
Phenanthrene	560	5.53	11.1	ug/kg dry	4	554	56.3	91	50-121%	---	---	
Pyrene	459	5.53	11.1	ug/kg dry	4	554	21.0	79	47-127%	---	---	
Carbazole	572	8.31	16.6	ug/kg dry	4	554	ND	103	50-123%	---	---	
Dibenzofuran	539	5.53	11.1	ug/kg dry	4	554	ND	97	44-120%	---	---	
2-Chlorophenol	509	27.7	55.3	ug/kg dry	4	554	ND	92	34-121%	---	---	
4-Chloro-3-methylphenol	538	55.3	111	ug/kg dry	4	554	ND	97	45-122%	---	---	
2,4-Dichlorophenol	558	27.7	55.3	ug/kg dry	4	554	ND	101	40-122%	---	---	
2,4-Dimethylphenol	644	27.7	55.3	ug/kg dry	4	554	ND	116	30-127%	---	---	
2,4-Dinitrophenol	325	138	277	ug/kg dry	4	554	ND	59	10-137%	---	---	
4,6-Dinitro-2-methylphenol	496	138	277	ug/kg dry	4	554	ND	90	29-132%	---	---	
2-Methylphenol	522	13.8	27.7	ug/kg dry	4	554	ND	94	32-122%	---	---	
3+4-Methylphenol(s)	538	13.8	27.7	ug/kg dry	4	554	ND	97	34-120%	---	---	
2-Nitrophenol	613	55.3	111	ug/kg dry	4	554	ND	111	36-123%	---	---	
4-Nitrophenol	501	55.3	111	ug/kg dry	4	554	ND	90	30-132%	---	---	
Pentachlorophenol (PCP)	423	55.3	111	ug/kg dry	4	554	ND	76	25-133%	---	---	
Phenol	527	11.1	22.2	ug/kg dry	4	554	ND	95	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	495	27.7	55.3	ug/kg dry	4	554	ND	89	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	491	27.7	55.3	ug/kg dry	4	554	ND	89	40-120%	---	---	
2,4,5-Trichlorophenol	585	27.7	55.3	ug/kg dry	4	554	ND	106	41-124%	---	---	
2,4,6-Trichlorophenol	563	27.7	55.3	ug/kg dry	4	554	ND	102	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	567	83.1	166	ug/kg dry	4	554	ND	102	51-133%	---	---	
Butyl benzyl phthalate	578	55.3	111	ug/kg dry	4	554	ND	104	48-132%	---	---	
Diethylphthalate	546	55.3	111	ug/kg dry	4	554	ND	99	50-124%	---	---	
Dimethylphthalate	528	55.3	111	ug/kg dry	4	554	ND	95	48-124%	---	---	
Di-n-butylphthalate	581	55.3	111	ug/kg dry	4	554	ND	105	51-128%	---	---	
Di-n-octyl phthalate	610	55.3	111	ug/kg dry	4	554	ND	110	45-140%	---	---	
N-Nitrosodimethylamine	496	13.8	27.7	ug/kg dry	4	554	ND	89	23-120%	---	---	
N-Nitroso-di-n-propylamine	498	13.8	27.7	ug/kg dry	4	554	ND	90	36-120%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
Matrix Spike (23G0165-MS2)						Prepared: 07/07/23 09:35 Analyzed: 07/07/23 20:49						
QC Source Sample: Non-SDG (A3G0729-08RE1)												
N-Nitrosodiphenylamine	448	13.8	27.7	ug/kg dry	4	554	ND	81	38-127%	---	---	
Bis(2-Chloroethoxy) methane	523	13.8	27.7	ug/kg dry	4	554	ND	94	36-121%	---	---	
Bis(2-Chloroethyl) ether	429	13.8	27.7	ug/kg dry	4	554	ND	77	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	491	13.8	27.7	ug/kg dry	4	554	ND	89	39-120%	---	---	
Hexachlorobenzene	499	5.53	11.1	ug/kg dry	4	554	ND	90	45-122%	---	---	
Hexachlorobutadiene	479	13.8	27.7	ug/kg dry	4	554	ND	86	32-123%	---	---	
Hexachlorocyclopentadiene	659	27.7	55.3	ug/kg dry	4	554	ND	119	10-140%	---	---	
Hexachloroethane	439	13.8	27.7	ug/kg dry	4	554	ND	79	28-120%	---	---	
2-Chloronaphthalene	696	5.53	11.1	ug/kg dry	4	554	ND	126	41-120%	---	---	Q-01
1,2,4-Trichlorobenzene	496	13.8	27.7	ug/kg dry	4	554	ND	90	34-120%	---	---	
4-Bromophenyl phenyl ether	547	13.8	27.7	ug/kg dry	4	554	ND	99	46-124%	---	---	
4-Chlorophenyl phenyl ether	535	13.8	27.7	ug/kg dry	4	554	ND	97	45-121%	---	---	
Aniline	289	27.7	55.3	ug/kg dry	4	554	ND	52	10-120%	---	---	Q-31
4-Chloroaniline	320	13.8	27.7	ug/kg dry	4	554	ND	58	17-120%	---	---	
2-Nitroaniline	592	111	222	ug/kg dry	4	554	ND	107	44-127%	---	---	
3-Nitroaniline	483	111	222	ug/kg dry	4	554	ND	87	33-120%	---	---	
4-Nitroaniline	511	111	222	ug/kg dry	4	554	ND	92	51-125%	---	---	Q-31
Nitrobenzene	421	55.3	111	ug/kg dry	4	554	ND	76	34-122%	---	---	
2,4-Dinitrotoluene	545	55.3	111	ug/kg dry	4	554	ND	98	48-126%	---	---	
2,6-Dinitrotoluene	547	55.3	111	ug/kg dry	4	554	ND	99	46-124%	---	---	
Benzoic acid	ND	694	1380	ug/kg dry	4	1110	ND		10-140%	---	---	Q-01
Benzyl alcohol	518	27.7	55.3	ug/kg dry	4	554	ND	93	29-122%	---	---	
Isophorone	482	13.8	27.7	ug/kg dry	4	554	ND	87	30-122%	---	---	
Azobenzene (1,2-DPH)	590	13.8	27.7	ug/kg dry	4	554	ND	106	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	588	138	277	ug/kg dry	4	554	ND	106	61-121%	---	---	
3,3'-Dichlorobenzidine	3330	111	222	ug/kg dry	4	1110	ND	300	22-121%	---	---	Q-01, Q-31, Q-52
1,2-Dinitrobenzene	543	138	277	ug/kg dry	4	554	ND	98	44-120%	---	---	
1,3-Dinitrobenzene	517	138	277	ug/kg dry	4	554	ND	93	43-127%	---	---	
1,4-Dinitrobenzene	560	138	277	ug/kg dry	4	554	ND	101	37-132%	---	---	
Pyridine	459	27.7	55.3	ug/kg dry	4	554	ND	83	10-120%	---	---	
1,2-Dichlorobenzene	479	13.8	27.7	ug/kg dry	4	554	ND	86	33-120%	---	---	
1,3-Dichlorobenzene	468	13.8	27.7	ug/kg dry	4	554	ND	84	30-120%	---	---	
1,4-Dichlorobenzene	480	13.8	27.7	ug/kg dry	4	554	ND	87	31-120%	---	---	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0165 - EPA 3546						Soil						
Matrix Spike (23G0165-MS2)						Prepared: 07/07/23 09:35 Analyzed: 07/07/23 20:49						
QC Source Sample: Non-SDG (A3G0729-08RE1)												
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 77 %</i>		<i>Limits: 37-122 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>111 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>107 %</i>		<i>33-122 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>103 %</i>		<i>54-127 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>90 %</i>		<i>35-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>102 %</i>		<i>39-132 %</i>		<i>"</i>						

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0149 - EPA 1311/3510C (BNA Extraction)						Soil						
Blank (23G0149-BLK1)						Prepared: 07/07/23 06:45 Analyzed: 07/07/23 14:03						TCLP
<u>1311/8270E-LL</u>												
Acenaphthene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.300	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.300	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	B-02
Phenanthrene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	---	0.300	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Phenol	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	1.00	ug/L	1	---	---	---	---	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0149 - EPA 1311/3510C (BNA Extraction)						Soil						
Blank (23G0149-BLK1)						Prepared: 07/07/23 06:45 Analyzed: 07/07/23 14:03						TCLP
2,3,5,6-Tetrachlorophenol	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Aniline	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	---	4.00	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	---	25.0	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	---	0.500	ug/L	1	---	---	---	---	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0149 - EPA 1311/3510C (BNA Extraction)						Soil						
Blank (23G0149-BLK1)						Prepared: 07/07/23 06:45 Analyzed: 07/07/23 14:03						TCLP
Azobenzene (1,2-DPH)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dinitrobenzene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 83 %</i>		<i>Limits: 44-120 %</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>33 %</i>		<i>10-133 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>104 %</i>		<i>50-134 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>52 %</i>		<i>19-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>105 %</i>		<i>43-140 %</i>		<i>"</i>						

Q-41

LCS (23G0149-BS1)						Prepared: 07/07/23 06:45 Analyzed: 07/07/23 14:38						
1311/8270E-LL												
Acenaphthene	33.0	---	0.800	ug/L	4	40.0	---	82	47-122%	---	---	
Acenaphthylene	33.0	---	0.800	ug/L	4	40.0	---	82	41-130%	---	---	
Anthracene	39.2	---	0.800	ug/L	4	40.0	---	98	57-123%	---	---	
Benz(a)anthracene	38.7	---	0.800	ug/L	4	40.0	---	97	58-125%	---	---	
Benzo(a)pyrene	36.3	---	1.20	ug/L	4	40.0	---	91	54-128%	---	---	
Benzo(b)fluoranthene	36.9	---	1.20	ug/L	4	40.0	---	92	53-131%	---	---	
Benzo(k)fluoranthene	37.3	---	1.20	ug/L	4	40.0	---	93	57-129%	---	---	
Benzo(g,h,i)perylene	38.0	---	0.800	ug/L	4	40.0	---	95	50-134%	---	---	
Chrysene	39.8	---	0.800	ug/L	4	40.0	---	99	59-123%	---	---	
Dibenz(a,h)anthracene	39.8	---	0.800	ug/L	4	40.0	---	99	51-134%	---	---	
Fluoranthene	40.4	---	0.800	ug/L	4	40.0	---	101	57-128%	---	---	
Fluorene	37.5	---	0.800	ug/L	4	40.0	---	94	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	36.1	---	0.800	ug/L	4	40.0	---	90	52-134%	---	---	
1-Methylnaphthalene	28.3	---	1.60	ug/L	4	40.0	---	71	41-120%	---	---	
2-Methylnaphthalene	28.8	---	1.60	ug/L	4	40.0	---	72	40-121%	---	---	
Naphthalene	26.2	---	1.60	ug/L	4	40.0	---	66	40-121%	---	---	B-02

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0149 - EPA 1311/3510C (BNA Extraction)						Soil						
LCS (23G0149-BS1)						Prepared: 07/07/23 06:45 Analyzed: 07/07/23 14:38						
Phenanthrene	37.0	---	0.800	ug/L	4	40.0	---	93	59-120%	---	---	
Pyrene	40.1	---	0.800	ug/L	4	40.0	---	100	57-126%	---	---	
Carbazole	43.5	---	1.20	ug/L	4	40.0	---	109	60-122%	---	---	
Dibenzofuran	36.6	---	0.800	ug/L	4	40.0	---	92	53-120%	---	---	
2-Chlorophenol	28.4	---	4.00	ug/L	4	40.0	---	71	38-120%	---	---	
4-Chloro-3-methylphenol	33.3	---	8.00	ug/L	4	40.0	---	83	52-120%	---	---	
2,4-Dichlorophenol	35.3	---	4.00	ug/L	4	40.0	---	88	47-121%	---	---	
2,4-Dimethylphenol	36.6	---	4.00	ug/L	4	40.0	---	91	31-124%	---	---	
2,4-Dinitrophenol	28.6	---	20.0	ug/L	4	40.0	---	71	23-143%	---	---	
4,6-Dinitro-2-methylphenol	38.8	---	20.0	ug/L	4	40.0	---	97	44-137%	---	---	
2-Methylphenol	25.4	---	2.00	ug/L	4	40.0	---	64	30-120%	---	---	
3+4-Methylphenol(s)	23.8	---	2.00	ug/L	4	40.0	---	59	29-120%	---	---	
2-Nitrophenol	39.4	---	8.00	ug/L	4	40.0	---	99	47-123%	---	---	
4-Nitrophenol	13.0	---	8.00	ug/L	4	40.0	---	33	10-120%	---	---	
Pentachlorophenol (PCP)	28.4	---	8.00	ug/L	4	40.0	---	71	35-138%	---	---	
Phenol	12.5	---	8.00	ug/L	4	40.0	---	31	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	38.7	---	4.00	ug/L	4	40.0	---	97	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	38.7	---	4.00	ug/L	4	40.0	---	97	50-121%	---	---	
2,4,5-Trichlorophenol	40.0	---	4.00	ug/L	4	40.0	---	100	53-123%	---	---	
2,4,6-Trichlorophenol	36.4	---	4.00	ug/L	4	40.0	---	91	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	35.9	---	16.0	ug/L	4	40.0	---	90	55-135%	---	---	
Butyl benzyl phthalate	38.2	---	16.0	ug/L	4	40.0	---	95	53-134%	---	---	
Diethylphthalate	38.7	---	16.0	ug/L	4	40.0	---	97	56-125%	---	---	
Dimethylphthalate	38.9	---	16.0	ug/L	4	40.0	---	97	45-127%	---	---	
Di-n-butylphthalate	39.4	---	16.0	ug/L	4	40.0	---	98	59-127%	---	---	
Di-n-octyl phthalate	33.4	---	16.0	ug/L	4	40.0	---	84	51-140%	---	---	
N-Nitrosodimethylamine	16.8	---	2.00	ug/L	4	40.0	---	42	19-120%	---	---	
N-Nitroso-di-n-propylamine	30.3	---	2.00	ug/L	4	40.0	---	76	49-120%	---	---	
N-Nitrosodiphenylamine	38.0	---	2.00	ug/L	4	40.0	---	95	51-123%	---	---	
Bis(2-Chloroethoxy) methane	33.0	---	2.00	ug/L	4	40.0	---	82	48-120%	---	---	
Bis(2-Chloroethyl) ether	28.3	---	2.00	ug/L	4	40.0	---	71	43-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	26.5	---	2.00	ug/L	4	40.0	---	66	41-120%	---	---	
Hexachlorobenzene	38.9	---	0.800	ug/L	4	40.0	---	97	53-125%	---	---	
Hexachlorobutadiene	20.5	---	2.00	ug/L	4	40.0	---	51	22-124%	---	---	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0149 - EPA 1311/3510C (BNA Extraction)						Soil						
LCS (23G0149-BS1)			Prepared: 07/07/23 06:45 Analyzed: 07/07/23 14:38									
Hexachlorocyclopentadiene	11.8	---	4.00	ug/L	4	40.0	---	30	10-127%	---	---	Q-31
Hexachloroethane	17.1	---	2.00	ug/L	4	40.0	---	43	21-120%	---	---	
2-Chloronaphthalene	31.1	---	0.800	ug/L	4	40.0	---	78	40-120%	---	---	
1,2,4-Trichlorobenzene	22.8	---	2.00	ug/L	4	40.0	---	57	29-120%	---	---	
4-Bromophenyl phenyl ether	40.7	---	2.00	ug/L	4	40.0	---	102	55-124%	---	---	
4-Chlorophenyl phenyl ether	39.3	---	2.00	ug/L	4	40.0	---	98	53-121%	---	---	
Aniline	20.9	---	4.00	ug/L	4	40.0	---	52	10-120%	---	---	Q-31
4-Chloroaniline	28.4	---	2.00	ug/L	4	40.0	---	71	33-120%	---	---	
2-Nitroaniline	41.2	---	16.0	ug/L	4	40.0	---	103	55-127%	---	---	
3-Nitroaniline	45.7	---	16.0	ug/L	4	40.0	---	114	41-128%	---	---	
4-Nitroaniline	40.6	---	16.0	ug/L	4	40.0	---	102	25-120%	---	---	
Nitrobenzene	30.1	---	8.00	ug/L	4	40.0	---	75	45-121%	---	---	
2,4-Dinitrotoluene	42.3	---	8.00	ug/L	4	40.0	---	106	57-128%	---	---	
2,6-Dinitrotoluene	38.6	---	8.00	ug/L	4	40.0	---	96	57-124%	---	---	
Benzoic acid	38.9	---	20.0	ug/L	4	80.0	---	49	10-120%	---	---	
Benzyl alcohol	23.0	---	8.00	ug/L	4	40.0	---	57	31-120%	---	---	
Isophorone	32.2	---	2.00	ug/L	4	40.0	---	81	42-124%	---	---	
Azobenzene (1,2-DPH)	35.0	---	2.00	ug/L	4	40.0	---	88	61-120%	---	---	
Bis(2-Ethylhexyl) adipate	35.8	---	20.0	ug/L	4	40.0	---	90	63-121%	---	---	
1,2-Dinitrobenzene	40.0	---	20.0	ug/L	4	40.0	---	100	59-120%	---	---	
1,3-Dinitrobenzene	43.3	---	20.0	ug/L	4	40.0	---	108	49-128%	---	---	
1,4-Dinitrobenzene	43.5	---	20.0	ug/L	4	40.0	---	109	54-120%	---	---	Q-41
Pyridine	17.1	---	8.00	ug/L	4	40.0	---	43	10-120%	---	---	
1,2-Dichlorobenzene	19.2	---	2.00	ug/L	4	40.0	---	48	32-120%	---	---	
1,3-Dichlorobenzene	18.4	---	2.00	ug/L	4	40.0	---	46	28-120%	---	---	
1,4-Dichlorobenzene	18.8	---	2.00	ug/L	4	40.0	---	47	29-120%	---	---	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>80 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>27 %</i>		<i>10-133 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>103 %</i>		<i>50-134 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>41 %</i>		<i>19-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>120 %</i>		<i>43-140 %</i>		<i>"</i>						

LCS Dup (23G0149-BSD1)	Prepared: 07/07/23 06:45 Analyzed: 07/07/23 15:12	Q-19
-------------------------------	---	-------------

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0149 - EPA 1311/3510C (BNA Extraction)						Soil						
LCS Dup (23G0149-BSD1)						Prepared: 07/07/23 06:45 Analyzed: 07/07/23 15:12						Q-19
<u>1311/8270E-LL</u>												
Acenaphthene	31.8	---	0.800	ug/L	4	40.0	---	79	47-122%	4	30%	
Acenaphthylene	31.6	---	0.800	ug/L	4	40.0	---	79	41-130%	4	30%	
Anthracene	37.9	---	0.800	ug/L	4	40.0	---	95	57-123%	3	30%	
Benz(a)anthracene	37.3	---	0.800	ug/L	4	40.0	---	93	58-125%	4	30%	
Benzo(a)pyrene	36.1	---	1.20	ug/L	4	40.0	---	90	54-128%	0.6	30%	
Benzo(b)fluoranthene	35.8	---	1.20	ug/L	4	40.0	---	89	53-131%	3	30%	
Benzo(k)fluoranthene	37.1	---	1.20	ug/L	4	40.0	---	93	57-129%	0.6	30%	
Benzo(g,h,i)perylene	35.9	---	0.800	ug/L	4	40.0	---	90	50-134%	6	30%	
Chrysene	37.6	---	0.800	ug/L	4	40.0	---	94	59-123%	6	30%	
Dibenz(a,h)anthracene	38.4	---	0.800	ug/L	4	40.0	---	96	51-134%	4	30%	
Fluoranthene	39.6	---	0.800	ug/L	4	40.0	---	99	57-128%	2	30%	
Fluorene	36.3	---	0.800	ug/L	4	40.0	---	91	52-124%	3	30%	
Indeno(1,2,3-cd)pyrene	34.8	---	0.800	ug/L	4	40.0	---	87	52-134%	4	30%	
1-Methylnaphthalene	27.4	---	1.60	ug/L	4	40.0	---	69	41-120%	3	30%	
2-Methylnaphthalene	27.9	---	1.60	ug/L	4	40.0	---	70	40-121%	3	30%	
Naphthalene	25.0	---	1.60	ug/L	4	40.0	---	62	40-121%	5	30%	B-02
Phenanthrene	35.8	---	0.800	ug/L	4	40.0	---	89	59-120%	3	30%	
Pyrene	38.9	---	0.800	ug/L	4	40.0	---	97	57-126%	3	30%	
Carbazole	42.4	---	1.20	ug/L	4	40.0	---	106	60-122%	3	30%	
Dibenzofuran	35.2	---	0.800	ug/L	4	40.0	---	88	53-120%	4	30%	
2-Chlorophenol	28.8	---	4.00	ug/L	4	40.0	---	72	38-120%	2	30%	
4-Chloro-3-methylphenol	32.5	---	8.00	ug/L	4	40.0	---	81	52-120%	2	30%	
2,4-Dichlorophenol	34.6	---	4.00	ug/L	4	40.0	---	87	47-121%	2	30%	
2,4-Dimethylphenol	35.5	---	4.00	ug/L	4	40.0	---	89	31-124%	3	30%	
2,4-Dinitrophenol	29.3	---	20.0	ug/L	4	40.0	---	73	23-143%	2	30%	
4,6-Dinitro-2-methylphenol	39.4	---	20.0	ug/L	4	40.0	---	98	44-137%	1	30%	
2-Methylphenol	25.6	---	2.00	ug/L	4	40.0	---	64	30-120%	0.6	30%	
3+4-Methylphenol(s)	24.0	---	2.00	ug/L	4	40.0	---	60	29-120%	0.8	30%	
2-Nitrophenol	39.3	---	8.00	ug/L	4	40.0	---	98	47-123%	0.4	30%	
4-Nitrophenol	12.1	---	8.00	ug/L	4	40.0	---	30	10-120%	8	30%	
Pentachlorophenol (PCP)	27.6	---	8.00	ug/L	4	40.0	---	69	35-138%	3	30%	
Phenol	12.3	---	8.00	ug/L	4	40.0	---	31	10-120%	1	30%	
2,3,4,6-Tetrachlorophenol	37.0	---	4.00	ug/L	4	40.0	---	92	50-128%	4	30%	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0149 - EPA 1311/3510C (BNA Extraction)						Soil						
LCS Dup (23G0149-BSD1)						Prepared: 07/07/23 06:45 Analyzed: 07/07/23 15:12						Q-19
2,3,5,6-Tetrachlorophenol	36.9	---	4.00	ug/L	4	40.0	---	92	50-121%	5	30%	
2,4,5-Trichlorophenol	38.1	---	4.00	ug/L	4	40.0	---	95	53-123%	5	30%	
2,4,6-Trichlorophenol	34.6	---	4.00	ug/L	4	40.0	---	86	50-125%	5	30%	
Bis(2-ethylhexyl)phthalate	34.0	---	16.0	ug/L	4	40.0	---	85	55-135%	5	30%	
Butyl benzyl phthalate	35.5	---	16.0	ug/L	4	40.0	---	89	53-134%	7	30%	
Diethylphthalate	37.2	---	16.0	ug/L	4	40.0	---	93	56-125%	4	30%	
Dimethylphthalate	37.9	---	16.0	ug/L	4	40.0	---	95	45-127%	3	30%	
Di-n-butylphthalate	38.1	---	16.0	ug/L	4	40.0	---	95	59-127%	3	30%	
Di-n-octyl phthalate	32.7	---	16.0	ug/L	4	40.0	---	82	51-140%	2	30%	
N-Nitrosodimethylamine	15.3	---	2.00	ug/L	4	40.0	---	38	19-120%	9	30%	
N-Nitroso-di-n-propylamine	31.2	---	2.00	ug/L	4	40.0	---	78	49-120%	3	30%	
N-Nitrosodiphenylamine	36.1	---	2.00	ug/L	4	40.0	---	90	51-123%	5	30%	
Bis(2-Chloroethoxy) methane	32.1	---	2.00	ug/L	4	40.0	---	80	48-120%	3	30%	
Bis(2-Chloroethyl) ether	28.9	---	2.00	ug/L	4	40.0	---	72	43-120%	2	30%	
2,2'-Oxybis(1-Chloropropane)	26.9	---	2.00	ug/L	4	40.0	---	67	41-120%	2	30%	
Hexachlorobenzene	37.8	---	0.800	ug/L	4	40.0	---	94	53-125%	3	30%	
Hexachlorobutadiene	19.1	---	2.00	ug/L	4	40.0	---	48	22-124%	7	30%	
Hexachlorocyclopentadiene	10.3	---	4.00	ug/L	4	40.0	---	26	10-127%	14	30%	Q-31
Hexachloroethane	16.1	---	2.00	ug/L	4	40.0	---	40	21-120%	6	30%	
2-Chloronaphthalene	29.6	---	0.800	ug/L	4	40.0	---	74	40-120%	5	30%	
1,2,4-Trichlorobenzene	21.4	---	2.00	ug/L	4	40.0	---	53	29-120%	6	30%	
4-Bromophenyl phenyl ether	38.7	---	2.00	ug/L	4	40.0	---	97	55-124%	5	30%	
4-Chlorophenyl phenyl ether	37.9	---	2.00	ug/L	4	40.0	---	95	53-121%	4	30%	
Aniline	21.5	---	4.00	ug/L	4	40.0	---	54	10-120%	3	30%	Q-31
4-Chloroaniline	28.0	---	2.00	ug/L	4	40.0	---	70	33-120%	1	30%	
2-Nitroaniline	38.8	---	16.0	ug/L	4	40.0	---	97	55-127%	6	30%	
3-Nitroaniline	43.0	---	16.0	ug/L	4	40.0	---	108	41-128%	6	30%	
4-Nitroaniline	38.7	---	16.0	ug/L	4	40.0	---	97	25-120%	5	30%	
Nitrobenzene	30.1	---	8.00	ug/L	4	40.0	---	75	45-121%	0.02	30%	
2,4-Dinitrotoluene	41.0	---	8.00	ug/L	4	40.0	---	103	57-128%	3	30%	
2,6-Dinitrotoluene	37.1	---	8.00	ug/L	4	40.0	---	93	57-124%	4	30%	
Benzoic acid	39.4	---	20.0	ug/L	4	80.0	---	49	10-120%	1	30%	
Benzyl alcohol	22.9	---	8.00	ug/L	4	40.0	---	57	31-120%	0.1	30%	
Isophorone	31.2	---	2.00	ug/L	4	40.0	---	78	42-124%	3	30%	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0149 - EPA 1311/3510C (BNA Extraction)						Soil						
LCS Dup (23G0149-BSD1)						Prepared: 07/07/23 06:45 Analyzed: 07/07/23 15:12						Q-19
Azobenzene (1,2-DPH)	33.5	---	2.00	ug/L	4	40.0	---	84	61-120%	5	30%	
Bis(2-Ethylhexyl) adipate	34.4	---	20.0	ug/L	4	40.0	---	86	63-121%	4	30%	
1,2-Dinitrobenzene	39.2	---	20.0	ug/L	4	40.0	---	98	59-120%	2	30%	
1,3-Dinitrobenzene	42.0	---	20.0	ug/L	4	40.0	---	105	49-128%	3	30%	
1,4-Dinitrobenzene	41.9	---	20.0	ug/L	4	40.0	---	105	54-120%	4	30%	Q-41
Pyridine	16.1	---	8.00	ug/L	4	40.0	---	40	10-120%	6	30%	
1,2-Dichlorobenzene	18.5	---	2.00	ug/L	4	40.0	---	46	32-120%	4	30%	
1,3-Dichlorobenzene	17.3	---	2.00	ug/L	4	40.0	---	43	28-120%	6	30%	
1,4-Dichlorobenzene	17.7	---	2.00	ug/L	4	40.0	---	44	29-120%	6	30%	
<i>Surr: Nitrobenzene-d5 (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 4x</i>						
<i>2-Fluorobiphenyl (Surr)</i>		<i>76 %</i>		<i>44-120 %</i>		<i>"</i>						
<i>Phenol-d6 (Surr)</i>		<i>25 %</i>		<i>10-133 %</i>		<i>"</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>98 %</i>		<i>50-134 %</i>		<i>"</i>						
<i>2-Fluorophenol (Surr)</i>		<i>39 %</i>		<i>19-120 %</i>		<i>"</i>						
<i>2,4,6-Tribromophenol (Surr)</i>		<i>112 %</i>		<i>43-140 %</i>		<i>"</i>						
<i>Q-41</i>												

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0074 - EPA 3051A												
Soil												
Blank (23G0074-BLK1)												
Prepared: 07/05/23 10:38 Analyzed: 07/05/23 23:30												
<u>EPA 6020B</u>												
Arsenic	ND	---	1000	ug/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	1000	ug/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	200	ug/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	1000	ug/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	200	ug/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	80.0	ug/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	1000	ug/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	200	ug/kg wet	10	---	---	---	---	---	---	
LCS (23G0074-BS1)												
Prepared: 07/05/23 10:38 Analyzed: 07/05/23 23:35												
<u>EPA 6020B</u>												
Arsenic	49700	---	1000	ug/kg wet	10	50000	---	99	80-120%	---	---	
Barium	52500	---	1000	ug/kg wet	10	50000	---	105	80-120%	---	---	
Cadmium	50100	---	200	ug/kg wet	10	50000	---	100	80-120%	---	---	
Chromium	49900	---	1000	ug/kg wet	10	50000	---	100	80-120%	---	---	
Lead	52500	---	200	ug/kg wet	10	50000	---	105	80-120%	---	---	
Mercury	975	---	80.0	ug/kg wet	10	1000	---	97	80-120%	---	---	
Selenium	24800	---	1000	ug/kg wet	10	25000	---	99	80-120%	---	---	
Silver	23900	---	200	ug/kg wet	10	25000	---	96	80-120%	---	---	
Duplicate (23G0074-DUP1)												
Prepared: 07/05/23 10:38 Analyzed: 07/05/23 23:56												
<u>QC Source Sample: Non-SDG (A3F1534-11)</u>												
Arsenic	4960	---	1450	ug/kg dry	10	---	5190	---	---	5	20%	
Barium	155000	---	1450	ug/kg dry	10	---	160000	---	---	3	20%	
Cadmium	ND	---	289	ug/kg dry	10	---	224	---	---	***	20%	
Chromium	13800	---	1450	ug/kg dry	10	---	15100	---	---	9	20%	
Lead	8350	---	289	ug/kg dry	10	---	8800	---	---	5	20%	
Mercury	ND	---	116	ug/kg dry	10	---	ND	---	---	---	20%	
Selenium	ND	---	1450	ug/kg dry	10	---	ND	---	---	---	20%	
Silver	ND	---	289	ug/kg dry	10	---	ND	---	---	---	20%	
Matrix Spike (23G0074-MS1)												
Prepared: 07/05/23 10:38 Analyzed: 07/06/23 00:01												

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0074 - EPA 3051A						Soil						
Matrix Spike (23G0074-MS1)						Prepared: 07/05/23 10:38 Analyzed: 07/06/23 00:01						
QC Source Sample: Non-SDG (A3F1534-11)												
EPA 6020B												
Arsenic	72000	---	1400	ug/kg dry	10	69800	5190	96	75-125%	---	---	
Barium	239000	---	1400	ug/kg dry	10	69800	160000	114	75-125%	---	---	
Cadmium	67700	---	279	ug/kg dry	10	69800	224	97	75-125%	---	---	
Chromium	82400	---	1400	ug/kg dry	10	69800	15100	96	75-125%	---	---	
Lead	75700	---	279	ug/kg dry	10	69800	8800	96	75-125%	---	---	
Mercury	1300	---	112	ug/kg dry	10	1400	ND	93	75-125%	---	---	
Selenium	33600	---	1400	ug/kg dry	10	34900	ND	96	75-125%	---	---	
Silver	32100	---	279	ug/kg dry	10	34900	ND	92	75-125%	---	---	

Apex Laboratories

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

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Sevenson Environmental Services, Inc.	Project: Gasco - Soil Residuals	
2749 Lockport Road	Project Number: 111323	Report ID:
Niagara Falls, NY 14305	Project Manager: Chip Byrd	A3F1688 - 07 10 23 1742

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 23G0134 - EPA 1311/3015A												
Soil												
Blank (23G0134-BLK1)												
Prepared: 07/06/23 13:48 Analyzed: 07/07/23 20:33												
<u>1311/6020B</u>												
Arsenic	ND	---	100	ug/L	10	---	---	---	---	---	---	TCLP
Barium	ND	---	5000	ug/L	10	---	---	---	---	---	---	TCLP
Cadmium	ND	---	100	ug/L	10	---	---	---	---	---	---	TCLP
Chromium	ND	---	100	ug/L	10	---	---	---	---	---	---	TCLP
Lead	ND	---	50.0	ug/L	10	---	---	---	---	---	---	TCLP
Mercury	ND	---	7.00	ug/L	10	---	---	---	---	---	---	TCLP
Selenium	ND	---	100	ug/L	10	---	---	---	---	---	---	TCLP
Silver	ND	---	100	ug/L	10	---	---	---	---	---	---	TCLP
LCS (23G0134-BS1)												
Prepared: 07/06/23 13:48 Analyzed: 07/07/23 20:38												
<u>1311/6020B</u>												
Arsenic	4990	---	100	ug/L	10	5000	---	100	80-120%	---	---	TCLP
Barium	10500	---	5000	ug/L	10	10000	---	105	80-120%	---	---	TCLP
Cadmium	982	---	100	ug/L	10	1000	---	98	80-120%	---	---	TCLP
Chromium	4940	---	100	ug/L	10	5000	---	99	80-120%	---	---	TCLP
Lead	5470	---	50.0	ug/L	10	5000	---	109	80-120%	---	---	TCLP
Mercury	105	---	7.00	ug/L	10	100	---	105	80-120%	---	---	TCLP
Selenium	1040	---	100	ug/L	10	1000	---	104	80-120%	---	---	TCLP
Silver	852	---	100	ug/L	10	1000	---	85	80-120%	---	---	TCLP
Duplicate (23G0134-DUP1)												
Prepared: 07/06/23 13:48 Analyzed: 07/07/23 20:49												
<u>QC Source Sample: T103-06023-16 (A3F1688-01)</u>												
<u>1311/6020B</u>												
Arsenic	ND	---	100	ug/L	10	---	ND	---	---	---	20%	
Barium	ND	---	5000	ug/L	10	---	ND	---	---	---	20%	
Cadmium	ND	---	100	ug/L	10	---	ND	---	---	---	20%	
Chromium	ND	---	100	ug/L	10	---	ND	---	---	---	20%	
Lead	ND	---	50.0	ug/L	10	---	ND	---	---	---	20%	
Mercury	ND	---	7.00	ug/L	10	---	ND	---	---	---	20%	
Selenium	ND	---	100	ug/L	10	---	ND	---	---	---	20%	
Silver	ND	---	100	ug/L	10	---	ND	---	---	---	20%	
Matrix Spike (23G0134-MS1)												
Prepared: 07/06/23 13:48 Analyzed: 07/07/23 20:54												

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0134 - EPA 1311/3015A						Soil						
Matrix Spike (23G0134-MS1)						Prepared: 07/06/23 13:48 Analyzed: 07/07/23 20:54						
QC Source Sample: T103-06023-16 (A3F1688-01)												
1311/6020B												
Arsenic	4900	---	100	ug/L	10	5000	ND	98	50-150%	---	---	
Barium	11600	---	5000	ug/L	10	10000	ND	116	50-150%	---	---	
Cadmium	981	---	100	ug/L	10	1000	ND	98	50-150%	---	---	
Chromium	4960	---	100	ug/L	10	5000	ND	99	50-150%	---	---	
Lead	5440	---	50.0	ug/L	10	5000	ND	109	50-150%	---	---	
Mercury	105	---	7.00	ug/L	10	100	ND	105	50-150%	---	---	
Selenium	1020	---	100	ug/L	10	1000	ND	102	50-150%	---	---	
Silver	611	---	100	ug/L	10	1000	ND	61	50-150%	---	---	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23F1155 - ASTM D7511-12mod (S)						Soil						
Blank (23F1155-BLK1)			Prepared: 06/30/23 10:54 Analyzed: 07/01/23 13:29									
<u>D7511-12</u>												
Total Cyanide	ND	---	100	ug/kg wet	1	---	---	---	---	---	---	
LCS (23F1155-BS1)			Prepared: 06/30/23 10:54 Analyzed: 07/01/23 13:31									
<u>D7511-12</u>												
Total Cyanide	434	---	100	ug/kg wet	1	400	---	108	84-116%	---	---	
Matrix Spike (23F1155-MS1)			Prepared: 06/30/23 10:54 Analyzed: 07/01/23 13:37									
<u>QC Source Sample: Non-SDG (A3F1671-01)</u>												
<u>D7511-12</u>												
Total Cyanide	363	---	99.5	ug/kg wet	1	398	ND	91	64-136%	---	---	
Matrix Spike Dup (23F1155-MSD1)			Prepared: 06/30/23 10:54 Analyzed: 07/01/23 13:39									
<u>QC Source Sample: Non-SDG (A3F1671-01)</u>												
Total Cyanide	385	---	98.5	ug/kg wet	1	394	ND	98	64-136%	6	47%	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0024 - Total Solids (Dry Weight) - 2022						Soil						
Duplicate (23G0024-DUP1)			Prepared: 07/03/23 10:48 Analyzed: 07/05/23 06:13									
<u>QC Source Sample: Non-SDG (A3F1254-13)</u>												
% Solids	90.0	---	1.00	%	1	---	91.7	---	---	2	10%	
Duplicate (23G0024-DUP2)			Prepared: 07/03/23 10:48 Analyzed: 07/05/23 06:13									
<u>QC Source Sample: Non-SDG (A3F1673-01)</u>												
% Solids	61.6	---	1.00	%	1	---	63.1	---	---	2	10%	
Duplicate (23G0024-DUP3)			Prepared: 07/03/23 10:48 Analyzed: 07/05/23 06:13									
<u>QC Source Sample: Non-SDG (A3F1673-02)</u>												
% Solids	68.0	---	1.00	%	1	---	68.2	---	---	0.2	10%	
Duplicate (23G0024-DUP4)			Prepared: 07/03/23 10:48 Analyzed: 07/05/23 06:13									
<u>QC Source Sample: Non-SDG (A3F1673-03)</u>												
% Solids	69.1	---	1.00	%	1	---	68.5	---	---	0.8	10%	
Duplicate (23G0024-DUP5)			Prepared: 07/03/23 10:48 Analyzed: 07/05/23 06:13									
<u>QC Source Sample: Non-SDG (A3F1673-04)</u>												
% Solids	68.9	---	1.00	%	1	---	68.2	---	---	1	10%	
Duplicate (23G0024-DUP6)			Prepared: 07/03/23 10:48 Analyzed: 07/05/23 06:13									
<u>QC Source Sample: Non-SDG (A3F1673-05)</u>												
% Solids	63.1	---	1.00	%	1	---	62.8	---	---	0.5	10%	
Duplicate (23G0024-DUP7)			Prepared: 07/03/23 10:48 Analyzed: 07/05/23 06:13									
<u>QC Source Sample: Non-SDG (A3F1681-01)</u>												
% Solids	86.5	---	1.00	%	1	---	86.4	---	---	0.1	10%	
Duplicate (23G0024-DUP8)			Prepared: 07/03/23 10:48 Analyzed: 07/05/23 06:13									
<u>QC Source Sample: Non-SDG (A3F1681-02)</u>												
% Solids	97.5	---	1.00	%	1	---	97.7	---	---	0.2	10%	

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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 23G0024 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (23G0024-DUP9)			Prepared: 07/03/23 10:48 Analyzed: 07/05/23 06:13									
QC Source Sample: Non-SDG (A3F1681-03)												
% Solids	94.4	---	1.00	%	1	---	94.3	---	---	0.2	10%	
Duplicate (23G0024-DUPA)			Prepared: 07/03/23 19:32 Analyzed: 07/05/23 06:13									
QC Source Sample: Non-SDG (A3G0740-02)												
% Solids	73.8	---	1.00	%	1	---	73.6	---	---	0.3	10%	

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

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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: 23G0188</u>							
A3F1688-01	Soil	NWTPH-Dx	06/30/23 07:45	07/07/23 14:51	10.19g/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: 23G0019</u>							
A3F1688-01	Soil	NWTPH-Gx (MS)	06/30/23 07:45	06/30/23 13:30	5g/5mL	5g/5mL	1.00

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: 23G0019</u>							
A3F1688-01	Soil	5035A/8260D	06/30/23 07:45	06/30/23 13:30	5g/5mL	5g/5mL	1.00
<u>Batch: 23G0116</u>							
A3F1688-01RE1	Soil	5035A/8260D	06/30/23 07:45	06/30/23 13:30	5g/5mL	5g/5mL	1.00

TCLP Volatile Organic Compounds by EPA 1311/8260D

Prep: EPA 1311/5030C TCLP Volatiles					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0124</u>							
A3F1688-01RE1	Soil	1311/8260D	06/30/23 07:45	07/06/23 10:00	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: 23G0165</u>							
A3F1688-01	Soil	EPA 8270E	06/30/23 07:45	07/07/23 09:35	15.12g/2mL	15g/2mL	0.99

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

SAMPLE PREPARATION INFORMATION

TCLP Semivolatile Organic Compounds by EPA 1311/8270E

Prep: EPA 1311/3510C (BNA Extraction)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23G0149							
A3F1688-01	Soil	1311/8270E-LL	06/30/23 07:45	07/07/23 06:45	200mL/2mL	200mL/2mL	1.00

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23G0074							
A3F1688-01	Soil	EPA 6020B	06/30/23 07:45	07/05/23 10:38	0.494g/50mL	0.5g/50mL	1.01

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23G0134							
A3F1688-01	Soil	1311/6020B	06/30/23 07:45	07/06/23 13:48	10mL/50mL	10mL/50mL	1.00

Soluble Cyanide by UV Digestion/Gas Diffusion/Amperometric Detection

Prep: ASTM D7511-12mod (S)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23F1155							
A3F1688-01RE2	Soil	D7511-12	06/30/23 07:45	06/30/23 14:37	2.5953g/50mL	2.5g/50mL	0.96

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23G0024							
A3F1688-01	Soil	EPA 8000D	06/30/23 07:45	07/03/23 10:48			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23G0054							
A3F1688-01	Soil	EPA 1311	06/30/23 07:45	07/05/23 14:51	100g/2000.1g	100g/2000g	NA

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

SAMPLE PREPARATION INFORMATION

TCLP Extraction by EPA 1311

Prep: EPA 1311 TCLP/ZHE					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 23G0087</u>							
A3F1688-01	Soil	EPA 1311 ZHE	06/30/23 07:45	07/05/23 13:42	25.4g/501.5g	25g/500g	NA

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals**
Project Number: **111323**
Project Manager: **Chip Byrd**

Report ID:
A3F1688 - 07 10 23 1742

QUALIFIER DEFINITIONS

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

Apex Laboratories

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- F-03** The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- F-11** The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- F-17** No fuel pattern detected. The Diesel result represents carbon range C10 to C25, and the Oil result represents >C25 to C40.
- 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-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-50** Due to instrument malfunction, not all Batch QC samples were analyzed. The batch is accepted based on the recoveries of the Blank Spike (BS).
- 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 +17%. 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 +3%. 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 +8%. 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 -1%. 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 -11%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -12%. The results are reported as Estimated Values.

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

- Q-54f** 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-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -28%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -6%. The results are reported as Estimated Values.
- Q-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-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 23G0054.
- TCLPa** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23G0087.
- TEMP** Sample was received or stored outside of recommended temperature.
- V-15** Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

Apex Laboratories

Darwin Thomas, Business Development Director

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

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'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

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).

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
- For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
- For further details, please request a copy of this document.
- 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, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

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



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

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

Darwin Thomas, Business Development Director



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 - Soil Residuals Project Number: 111323 Project Manager: Chip Byrd	Report ID: A3F1688 - 07 10 23 1742
---	--	---

APEX LABS COOLER RECEIPT FORM

Client: Sevenson Environmental Services, Inc. Element WO#: A3F1688
 Project/Project #: Gasco - Soil Residuals 111323

Delivery Info:
 Date/time received: 6/30/23 @ 955 By: EST
 Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 6/30/23 @ 1025 By: EST
 Chain of Custody included? Yes No
 Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.3</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>PN</u>						

Cooler out of temp? (Y/N) Possible reason why: Green dots applied to out of temperature samples? Yes/No Yes
 Out of temperature samples form initiated? Yes/No Yes
Sample Inspection: Date/time inspected: 6/30/23 @ 1515 By: RMP
 All samples intact? Yes No Comments: _____

 Bottle labels/COCs agree? Yes No Comments: _____

 COC/container discrepancies form initiated? Yes No
 Containers/volumes received appropriate for analysis? Yes No Comments: _____

 Do VOA vials have visible headspace? Yes No NA
 Comments: _____
 Water samples: pH checked: Yes No NA pH appropriate? Yes No NA
 Comments: _____

Additional information: _____

Labeled by: RMP Witness: DTS Cooler Inspected by: EST
Form Y-003 R-00

Apex Laboratories

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

Darwin Thomas, Business Development Director



Hazardous WAM Approval

Requested Management Facility: Chemical Waste Management (Hazardous Waste Facility)

Profile Number: OR344464 Waste Approval Expiration Date: 06/07/2024

APPROVAL DETAILS

Hazardous Classification: RCRA Hazardous Profile Renewal: Yes No

Management Method: Direct Landfill - Haz Meeting Standards

Generator Name: NW Natural

Material Name: Residual Solids

Management Facility Precautions, Special Handling Procedures or Limitation on approval:

Generator Conditions

- An EPA form 8700-22 must be used for all hazardous shipments and may be ordered from an authorized vendor or your TSC.
 - Approval number must accompany shipment.
 - A signed Land Ban Notification/Certification must accompany the first shipment to the disposal facility. A new certification must be provided upon any change in the wastestream.
 - For F001-F005, specify parameters on the Phase IV or Soil LDR, whichever is applicable.
 - Absorbent materials for landfill must be made of non-biodegradable material, as defined by EPA and applicable State regulations
 - Chemical Waste Management has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.
 - The WM decision is based on specific parameters defined within this waste profile. Waste received that is non-conforming in any way will need to be re-evaluated and managed in accordance with all RCRA and State regulations. If alternative treatment is not available and the waste cannot be managed it will be rejected back to the generator.
 - No free liquids
 - Must meet applicable OSHA, DOT packaging, labeling, shipping and manifesting requirements per 49 CFR.
- Amended to include updated analytical: Apex Report A0G0314, Apex sample ID A0G0314-04, SES sample ID # T103A-071320-10 Comp
- AMENDED TO INCLUDE UPDATED ANALYTICAL: Apex Lab Report #A1G0411, sample ID. A1G0411-01
- Must be scheduled. Please contact Bob Mulholland (rmulholl@wm.com 541-454-3265) or Tina Weiser (tweiser@wm.com).

WM Authorization Name: Donald Lavrinc Title: Waste Approval Manager

WM Authorization Signature: *Donald Lavrinc* Date: 06/07/2022

Agency Authorization (if Required): _____ Date: _____