



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Wednesday, March 6, 2024

John Renda
Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

RE: A3L1275 - Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon - 000029-02.84 T-01.001E

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 A3L1275, which was received by the laboratory on 12/14/2023 at 8:25:00AM.

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			
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>			
(See Cooler Receipt Form for details)			
Cooler #1	2.5	degC	Cooler #2
<hr/>		<hr/>	

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

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



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Darwin Thomas, Business Development Director

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6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS-121323-08	A3L1275-01	WG	12/13/23 09:40	12/14/23 08:25
GS-121323-09	A3L1275-02	WG	12/13/23 10:15	12/14/23 08:25
GS-121323-10	A3L1275-03	WG	12/13/23 11:00	12/14/23 08:25
GS-121323-11	A3L1275-04	WG	12/13/23 13:50	12/14/23 08:25
GS-121323-12	A3L1275-05	WG	12/13/23 15:00	12/14/23 08:25
TB-121323	A3L1275-06	W	12/13/23 15:30	12/14/23 08:25

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****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
GS-121323-08 (A3L1275-01)		Matrix: WG			Batch: 23L0980			
Diesel	2120	96.2	192	ug/L	1	12/28/23 17:15	NWTPH-Dx	F-13
Oil	333	192	385	ug/L	1	12/28/23 17:15	NWTPH-Dx	J
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/28/23 17:15</i>	<i>NWTPH-Dx</i>	
GS-121323-09 (A3L1275-02)		Matrix: WG			Batch: 23L0980			
Diesel	963	99.0	198	ug/L	1	12/28/23 17:35	NWTPH-Dx	F-13
Oil	ND	198	396	ug/L	1	12/28/23 17:35	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/28/23 17:35</i>	<i>NWTPH-Dx</i>	
GS-121323-10 (A3L1275-03)		Matrix: WG			Batch: 23L0980			
Diesel	ND	96.2	192	ug/L	1	12/28/23 19:16	NWTPH-Dx	
Oil	349	192	385	ug/L	1	12/28/23 19:16	NWTPH-Dx	J
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 86 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/28/23 19:16</i>	<i>NWTPH-Dx</i>	
GS-121323-11 (A3L1275-04)		Matrix: WG			Batch: 23L0980			
Diesel	ND	99.0	198	ug/L	1	12/28/23 19:37	NWTPH-Dx	
Oil	524	198	396	ug/L	1	12/28/23 19:37	NWTPH-Dx	F-13
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/28/23 19:37</i>	<i>NWTPH-Dx</i>	
GS-121323-12 (A3L1275-05)		Matrix: WG			Batch: 23L0980			DCNT
Diesel	5620	110	220	ug/L	1	12/28/23 20:17	NWTPH-Dx	
Oil	ND	220	440	ug/L	1	12/28/23 20:17	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 85 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/28/23 20:17</i>	<i>NWTPH-Dx</i>	

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Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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
GS-121323-08 (A3L1275-01RE1)		Matrix: WG		Batch: 23L1017				
Gasoline Range Organics	3910	50.0	100	ug/L	1	12/27/23 18:42	NWTPH-Gx (MS)	F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 125 %	Limits: 50-150 %	1	12/27/23 18:42	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		109 %	50-150 %	1	12/27/23 18:42	NWTPH-Gx (MS)		
GS-121323-09 (A3L1275-02RE1)		Matrix: WG		Batch: 23L0845				
Gasoline Range Organics	15600	1000	2000	ug/L	20	12/21/23 22:20	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 95 %	Limits: 50-150 %	1	12/21/23 22:20	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		85 %	50-150 %	1	12/21/23 22:20	NWTPH-Gx (MS)		
GS-121323-10 (A3L1275-03)		Matrix: WG		Batch: 23L0783				
Gasoline Range Organics	ND	50.0	100	ug/L	1	12/20/23 13:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 91 %	Limits: 50-150 %	1	12/20/23 13:22	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		108 %	50-150 %	1	12/20/23 13:22	NWTPH-Gx (MS)		
GS-121323-11 (A3L1275-04)		Matrix: WG		Batch: 23L0783				
Gasoline Range Organics	ND	50.0	100	ug/L	1	12/20/23 13:45	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 90 %	Limits: 50-150 %	1	12/20/23 13:45	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		106 %	50-150 %	1	12/20/23 13:45	NWTPH-Gx (MS)		
GS-121323-12 (A3L1275-05RE1)		Matrix: WG		Batch: 23L0908				
Gasoline Range Organics	786	50.0	100	ug/L	1	12/22/23 21:23	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 115 %	Limits: 50-150 %	1	12/22/23 21:23	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		107 %	50-150 %	1	12/22/23 21:23	NWTPH-Gx (MS)		

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-08 (A3L1275-01RE1)				Matrix: WG		Batch: 23L1017		
Acetone	ND	10.0	20.0	ug/L	1	12/27/23 18:42	EPA 8260D	
Acrylonitrile	ND	2.00	2.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Benzene	0.180	0.100	0.200	ug/L	1	12/27/23 18:42	EPA 8260D	J
Bromobenzene	ND	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/27/23 18:42	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/27/23 18:42	EPA 8260D	
n-Butylbenzene	ND	1.00	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
sec-Butylbenzene	0.570	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	J
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/27/23 18:42	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/27/23 18:42	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/27/23 18:42	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/27/23 18:42	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/27/23 18:42	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/27/23 18:42	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/27/23 18:42	EPA 8260D	

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Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-08 (A3L1275-01RE1)		Matrix: WG		Batch: 23L1017				
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Ethylbenzene	0.370	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	J
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/27/23 18:42	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	12/27/23 18:42	EPA 8260D	
Isopropylbenzene	17.0	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/27/23 18:42	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	12/27/23 18:42	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Naphthalene	ND	5.00	5.00	ug/L	1	12/27/23 18:42	EPA 8260D	
n-Propylbenzene	4.61	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/27/23 18:42	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/27/23 18:42	EPA 8260D	
Toluene	0.500	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	J
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/27/23 18:42	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/27/23 18:42	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	12/27/23 18:42	EPA 8260D	
m,p-Xylene	ND	1.00	1.00	ug/L	1	12/27/23 18:42	EPA 8260D	
o-Xylene	0.790	0.250	0.500	ug/L	1	12/27/23 18:42	EPA 8260D	

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Project Manager: John Renda

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-08 (A3L1275-01RE1)		Matrix: WG			Batch: 23L1017			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 109 %	Limits: 80-120 %	1	12/27/23 18:42	EPA 8260D		
Toluene-d8 (Surr)		101 %	80-120 %	1	12/27/23 18:42	EPA 8260D		
4-Bromofluorobenzene (Surr)		96 %	80-120 %	1	12/27/23 18:42	EPA 8260D		
GS-121323-09 (A3L1275-02)		Matrix: WG			Batch: 23L0783			V-25
Acetone	ND	10.0	20.0	ug/L	1	12/20/23 14:07	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/20/23 14:07	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/20/23 14:07	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/20/23 14:07	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/20/23 14:07	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/20/23 14:07	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/20/23 14:07	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/20/23 14:07	EPA 8260D	

Apex Laboratories

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-09 (A3L1275-02)		Matrix: WG		Batch: 23L0783		V-25		
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 14:07	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 14:07	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 14:07	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Ethylbenzene	29.6	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/20/23 14:07	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	12/20/23 14:07	EPA 8260D	
Isopropylbenzene	2.21	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	Q-42
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/20/23 14:07	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	12/20/23 14:07	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
n-Propylbenzene	0.260	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	J
Styrene	0.610	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	J
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/20/23 14:07	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/20/23 14:07	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/23 14:07	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/23 14:07	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/20/23 14:07	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/20/23 14:07	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/20/23 14:07	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	
1,2,4-Trimethylbenzene	3.66	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	Q-42
1,3,5-Trimethylbenzene	1.35	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	Q-42
Vinyl chloride	ND	0.100	0.200	ug/L	1	12/20/23 14:07	EPA 8260D	
m,p-Xylene	122	0.500	1.00	ug/L	1	12/20/23 14:07	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-09 (A3L1275-02)		Matrix: WG			Batch: 23L0783		V-25	
o-Xylene	55.7	0.250	0.500	ug/L	1	12/20/23 14:07	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %	1	12/20/23 14:07	EPA 8260D	
Toluene-d8 (Surr)		98 %		80-120 %	1	12/20/23 14:07	EPA 8260D	
4-Bromofluorobenzene (Surr)		96 %		80-120 %	1	12/20/23 14:07	EPA 8260D	
GS-121323-09 (A3L1275-02RE1)		Matrix: WG			Batch: 23L0845			
Naphthalene	192	50.0	100	ug/L	20	12/21/23 22:20	EPA 8260D	
Toluene	422	10.0	20.0	ug/L	20	12/21/23 22:20	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %	1	12/21/23 22:20	EPA 8260D	
Toluene-d8 (Surr)		96 %		80-120 %	1	12/21/23 22:20	EPA 8260D	
4-Bromofluorobenzene (Surr)		104 %		80-120 %	1	12/21/23 22:20	EPA 8260D	
GS-121323-09 (A3L1275-02RE2)		Matrix: WG			Batch: 23L0918			
Benzene	4580	20.0	40.0	ug/L	200	12/23/23 07:13	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 89 %		Limits: 80-120 %	1	12/23/23 07:13	EPA 8260D	
Toluene-d8 (Surr)		97 %		80-120 %	1	12/23/23 07:13	EPA 8260D	
4-Bromofluorobenzene (Surr)		102 %		80-120 %	1	12/23/23 07:13	EPA 8260D	
GS-121323-10 (A3L1275-03)		Matrix: WG			Batch: 23L0783			
Acetone	ND	10.0	20.0	ug/L	1	12/20/23 13:22	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	12/20/23 13:22	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/20/23 13:22	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/20/23 13:22	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/20/23 13:22	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	

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Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-10 (A3L1275-03)		Matrix: WG			Batch: 23L0783			
Chloroethane	ND	5.00	5.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/20/23 13:22	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/20/23 13:22	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/20/23 13:22	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 13:22	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 13:22	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 13:22	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/20/23 13:22	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	12/20/23 13:22	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/20/23 13:22	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	12/20/23 13:22	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Naphthalene	ND	5.00	5.00	ug/L	1	12/20/23 13:22	EPA 8260D	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-10 (A3L1275-03)		Matrix: WG			Batch: 23L0783			
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/20/23 13:22	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/20/23 13:22	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/20/23 13:22	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/20/23 13:22	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	12/20/23 13:22	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/20/23 13:22	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/20/23 13:22	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %	1	12/20/23 13:22	EPA 8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	12/20/23 13:22	EPA 8260D	
4-Bromofluorobenzene (Surr)		94 %		80-120 %	1	12/20/23 13:22	EPA 8260D	
GS-121323-11 (A3L1275-04)		Matrix: WG			Batch: 23L0783			
Acetone	ND	10.0	20.0	ug/L	1	12/20/23 13:45	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	12/20/23 13:45	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/20/23 13:45	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/20/23 13:45	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-11 (A3L1275-04)				Matrix: WG		Batch: 23L0783		
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/20/23 13:45	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/20/23 13:45	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/20/23 13:45	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/20/23 13:45	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 13:45	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 13:45	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 13:45	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/20/23 13:45	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	12/20/23 13:45	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-11 (A3L1275-04)		Matrix: WG			Batch: 23L0783			
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/20/23 13:45	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	12/20/23 13:45	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Naphthalene	ND	5.00	5.00	ug/L	1	12/20/23 13:45	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/20/23 13:45	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/20/23 13:45	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/20/23 13:45	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/20/23 13:45	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	12/20/23 13:45	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/20/23 13:45	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/20/23 13:45	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 80-120 %	1	12/20/23 13:45	EPA 8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	12/20/23 13:45	EPA 8260D	
4-Bromofluorobenzene (Surr)		98 %		80-120 %	1	12/20/23 13:45	EPA 8260D	
GS-121323-12 (A3L1275-05RE1)		Matrix: WG			Batch: 23L0908			
Acetone	ND	10.0	20.0	ug/L	1	12/22/23 21:23	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Benzene	0.120	0.100	0.200	ug/L	1	12/22/23 21:23	EPA 8260D	J
Bromobenzene	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-12 (A3L1275-05RE1)				Matrix: WG		Batch: 23L0908		
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/22/23 21:23	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/22/23 21:23	EPA 8260D	
n-Butylbenzene	0.920	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	J
sec-Butylbenzene	0.740	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	J
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/22/23 21:23	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/22/23 21:23	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/22/23 21:23	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/22/23 21:23	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/22/23 21:23	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/22/23 21:23	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/22/23 21:23	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-12 (A3L1275-05RE1)		Matrix: WG			Batch: 23L0908			
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/22/23 21:23	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	12/22/23 21:23	EPA 8260D	
Isopropylbenzene	3.02	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/22/23 21:23	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	12/22/23 21:23	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Naphthalene	ND	5.00	5.00	ug/L	1	12/22/23 21:23	EPA 8260D	
n-Propylbenzene	1.18	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/22/23 21:23	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/22/23 21:23	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/22/23 21:23	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/22/23 21:23	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	12/22/23 21:23	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/22/23 21:23	EPA 8260D	
o-Xylene	0.860	0.250	0.500	ug/L	1	12/22/23 21:23	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %	1	12/22/23 21:23	EPA 8260D	
Toluene-d8 (Surr)		97 %		80-120 %	1	12/22/23 21:23	EPA 8260D	
4-Bromofluorobenzene (Surr)		92 %		80-120 %	1	12/22/23 21:23	EPA 8260D	

TB-121323 (A3L1275-06)

Matrix: W

Batch: 23L0783

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-121323 (A3L1275-06)		Matrix: W			Batch: 23L0783			
Acetone	ND	10.0	20.0	ug/L	1	12/20/23 12:59	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	12/20/23 12:59	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/20/23 12:59	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/20/23 12:59	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/20/23 12:59	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/20/23 12:59	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/20/23 12:59	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/20/23 12:59	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 12:59	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 12:59	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/23 12:59	EPA 8260D	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-121323 (A3L1275-06)		Matrix: W			Batch: 23L0783			
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/20/23 12:59	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	12/20/23 12:59	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/20/23 12:59	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	12/20/23 12:59	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Naphthalene	ND	5.00	5.00	ug/L	1	12/20/23 12:59	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/20/23 12:59	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/20/23 12:59	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/20/23 12:59	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/20/23 12:59	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	12/20/23 12:59	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/20/23 12:59	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/20/23 12:59	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**

Project Number: **000029-02.84 T-01.001E**

Project Manager: **John Renda**

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-121323 (A3L1275-06)				Matrix: W		Batch: 23L0783		
Surrogate: 1,4-Difluorobenzene (Surr)			Recovery: 107 %	Limits: 80-120 %	1	12/20/23 12:59	EPA 8260D	
Toluene-d8 (Surr)			102 %	80-120 %	1	12/20/23 12:59	EPA 8260D	
4-Bromofluorobenzene (Surr)			96 %	80-120 %	1	12/20/23 12:59	EPA 8260D	

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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-08 (A3L1275-01RE1)				Matrix: WG		Batch: 23L0646		
Acenaphthene	50.4	0.177	0.354	ug/L	10	12/20/23 10:51	EPA 8270E LVI	J
Acenaphthylene	5.65	0.177	0.354	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Anthracene	1.20	0.177	0.354	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Benz(a)anthracene	0.0886	0.0886	0.177	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.0886	0.177	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.0886	0.177	ug/L	10	12/20/23 10:51	EPA 8270E LVI	J
Benzo(k)fluoranthene	ND	0.0886	0.177	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.177	0.354	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Chrysene	0.102	0.0886	0.177	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.0886	0.177	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Fluoranthene	1.15	0.177	0.354	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Fluorene	7.58	0.177	0.354	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.0886	0.177	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
1-Methylnaphthalene	24.1	0.354	0.709	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.354	0.709	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Naphthalene	0.912	0.354	0.709	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Phenanthrene	ND	0.354	0.709	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Pyrene	1.46	0.177	0.354	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Dibenzofuran	ND	0.177	0.354	ug/L	10	12/20/23 10:51	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 137 %		Limits: 78-134 %	10	12/20/23 10:51	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		120 %		80-132 %	10	12/20/23 10:51	EPA 8270E LVI	S-05
GS-121323-09 (A3L1275-02)				Matrix: WG		Batch: 23L0646		
Acenaphthene	6.95	0.332	0.663	ug/L	20	12/18/23 13:26	EPA 8270E LVI	M-02
Acenaphthylene	ND	1.24	1.24	ug/L	20	12/18/23 13:26	EPA 8270E LVI	R-02
Anthracene	1.63	0.332	0.663	ug/L	20	12/18/23 13:26	EPA 8270E LVI	Q-42
Benz(a)anthracene	ND	0.166	0.332	ug/L	20	12/18/23 13:26	EPA 8270E LVI	J, Q-42
Benzo(a)pyrene	ND	0.166	0.332	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.166	0.332	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.166	0.332	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Benzo(g,h,i)perylene	0.365	0.332	0.663	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Chrysene	ND	0.166	0.332	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.166	0.332	ug/L	20	12/18/23 13:26	EPA 8270E LVI	

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6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-09 (A3L1275-02)		Matrix: WG			Batch: 23L0646			
Fluoranthene	1.26	0.332	0.663	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Fluorene	2.79	0.332	0.663	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	0.274	0.166	0.332	ug/L	20	12/18/23 13:26	EPA 8270E LVI	J, Q-42
1-Methylnaphthalene	6.82	0.663	1.33	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
2-Methylnaphthalene	3.08	0.663	1.33	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Naphthalene	84.5	0.663	1.33	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Phenanthrene	4.47	0.663	1.33	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Pyrene	1.26	0.332	0.663	ug/L	20	12/18/23 13:26	EPA 8270E LVI	
Dibenzofuran	1.33	0.332	0.663	ug/L	20	12/18/23 13:26	EPA 8270E LVI	Q-42
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 92 %		Limits: 78-134 %	20	12/18/23 13:26	EPA 8270E LVI	S-05
Benzo(a)pyrene-d12 (Surr)		97 %		80-132 %	20	12/18/23 13:26	EPA 8270E LVI	S-05
GS-121323-10 (A3L1275-03)		Matrix: WG			Batch: 23L0646			
Acenaphthene	ND	0.0164	0.0328	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Acenaphthylene	0.172	0.0164	0.0328	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Anthracene	0.195	0.0164	0.0328	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00821	0.0164	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00821	0.0164	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.00821	0.0164	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00821	0.0164	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0164	0.0328	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Chrysene	ND	0.00821	0.0164	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00821	0.0164	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Fluoranthene	0.0242	0.0164	0.0328	ug/L	1	12/18/23 18:16	EPA 8270E LVI	J
Fluorene	0.0242	0.0164	0.0328	ug/L	1	12/18/23 18:16	EPA 8270E LVI	J
Indeno(1,2,3-cd)pyrene	ND	0.00821	0.0164	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0328	0.0657	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0328	0.0657	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Naphthalene	ND	0.0328	0.0657	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Phenanthrene	ND	0.0328	0.0657	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Pyrene	ND	0.0164	0.0328	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Dibenzofuran	ND	0.0164	0.0328	ug/L	1	12/18/23 18:16	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 113 %		Limits: 78-134 %	1	12/18/23 18:16	EPA 8270E LVI	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-10 (A3L1275-03)				Matrix: WG		Batch: 23L0646		
Surrogate: Benzo(a)pyrene-d12 (Surr)		Recovery: 119 %	Limits: 80-132 %	1	12/18/23 18:16	EPA 8270E LVI		
GS-121323-11 (A3L1275-04)				Matrix: WG		Batch: 23L0646		
Acenaphthene	ND	0.0163	0.0325	ug/L	1	12/18/23 18:48	EPA 8270E LVI	J
Acenaphthylene	0.134	0.0163	0.0325	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Anthracene	0.0980	0.0163	0.0325	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00813	0.0163	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00813	0.0163	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.00813	0.0163	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00813	0.0163	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0163	0.0325	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Chrysene	ND	0.00813	0.0163	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00813	0.0163	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Fluoranthene	ND	0.0163	0.0325	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Fluorene	ND	0.0163	0.0325	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00813	0.0163	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0325	0.0650	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0325	0.0650	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Naphthalene	0.0577	0.0325	0.0650	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Phenanthrene	ND	0.0325	0.0650	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Pyrene	ND	0.0163	0.0325	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Dibenzofuran	ND	0.0163	0.0325	ug/L	1	12/18/23 18:48	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 111 %	Limits: 78-134 %	1	12/18/23 18:48	EPA 8270E LVI		
Benzo(a)pyrene-d12 (Surr)		126 %	80-132 %	1	12/18/23 18:48	EPA 8270E LVI		
GS-121323-12 (A3L1275-05RE1)				Matrix: WG		Batch: 23L0646		
Acenaphthene	13.8	0.222	0.445	ug/L	10	12/20/23 11:25	EPA 8270E LVI	R-02
Acenaphthylene	ND	1.81	1.81	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Anthracene	ND	0.445	0.445	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Benz(a)anthracene	ND	0.111	0.222	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.111	0.222	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.111	0.222	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.111	0.222	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.222	0.445	ug/L	10	12/20/23 11:25	EPA 8270E LVI	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-12 (A3L1275-05RE1)		Matrix: WG			Batch: 23L0646			
Chrysene	ND	0.111	0.222	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.111	0.222	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Fluoranthene	ND	0.222	0.445	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Fluorene	6.58	0.222	0.445	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.111	0.222	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
1-Methylnaphthalene	1.44	0.445	0.889	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.445	0.889	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Naphthalene	ND	0.889	0.889	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Phenanthrene	ND	0.445	0.889	ug/L	10	12/20/23 11:25	EPA 8270E LVI	
Pyrene	0.250	0.222	0.445	ug/L	10	12/20/23 11:25	EPA 8270E LVI	J
Dibenzofuran	ND	0.834	0.834	ug/L	10	12/20/23 11:25	EPA 8270E LVI	R-02
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 102 %		Limits: 78-134 %	10	12/20/23 11:25	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		116 %		80-132 %	10	12/20/23 11:25	EPA 8270E LVI	

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ANALYTICAL REPORT

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-08 (A3L1275-01RE1) Matrix: WG								
Batch: 23L1103								
Manganese	4310	5.00	10.0	ug/L	10	01/02/24 19:56	EPA 6020B	
GS-121323-08 (A3L1275-01RE2) Matrix: WG								
Batch: 23L1103								
Aluminum	ND	25.0	50.0	ug/L	1	01/02/24 20:28	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	01/02/24 20:28	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	01/02/24 20:28	EPA 6020B	
Barium	60.7	1.00	2.00	ug/L	1	01/02/24 20:28	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	01/02/24 20:28	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 20:28	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	01/02/24 20:28	EPA 6020B	
Copper	1.82	1.00	2.00	ug/L	1	01/02/24 20:28	EPA 6020B	J
Iron	36000	25.0	50.0	ug/L	1	01/02/24 20:28	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	01/02/24 20:28	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	01/02/24 20:28	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	01/02/24 20:28	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	01/02/24 20:28	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	01/02/24 20:28	EPA 6020B	
Zinc	2.77	2.00	4.00	ug/L	1	01/02/24 20:28	EPA 6020B	J
GS-121323-08 (A3L1275-01RE4) Matrix: WG								
Batch: 23L1103								
Lead	0.144	0.110	0.200	ug/L	1	01/04/24 09:44	EPA 6020B	J
Nickel	2.94	1.00	2.00	ug/L	1	01/04/24 09:44	EPA 6020B	
GS-121323-09 (A3L1275-02RE1) Matrix: WG								
Batch: 23L1103								
Aluminum	ND	25.0	50.0	ug/L	1	01/02/24 20:34	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	01/02/24 20:34	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	01/02/24 20:34	EPA 6020B	
Barium	13.4	1.00	2.00	ug/L	1	01/02/24 20:34	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	01/02/24 20:34	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 20:34	EPA 6020B	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-09 (A3L1275-02RE1) Matrix: WG								
Chromium	ND	1.00	2.00	ug/L	1	01/02/24 20:34	EPA 6020B	
Copper	1.01	1.00	2.00	ug/L	1	01/02/24 20:34	EPA 6020B	J
Iron	4700	25.0	50.0	ug/L	1	01/02/24 20:34	EPA 6020B	
Manganese	512	0.500	1.00	ug/L	1	01/02/24 20:34	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	01/02/24 20:34	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	01/02/24 20:34	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	01/02/24 20:34	EPA 6020B	
Vanadium	1.13	1.00	2.00	ug/L	1	01/02/24 20:34	EPA 6020B	J
Zinc	ND	2.00	4.00	ug/L	1	01/02/24 20:34	EPA 6020B	
GS-121323-09 (A3L1275-02RE2) Matrix: WG								
Batch: 23L1103								
Lead	ND	0.110	0.200	ug/L	1	01/03/24 21:32	EPA 6020B	
Nickel	7.63	1.00	2.00	ug/L	1	01/03/24 21:32	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	01/03/24 21:32	EPA 6020B	
GS-121323-10 (A3L1275-03RE1) Matrix: WG								
Batch: 23L1103								
Vanadium	1040	10.0	20.0	ug/L	10	01/02/24 20:02	EPA 6020B	
GS-121323-10 (A3L1275-03RE2) Matrix: WG								
Batch: 23L1103								
Aluminum	ND	25.0	50.0	ug/L	1	01/02/24 20:50	EPA 6020B	
Antimony	0.906	0.500	1.00	ug/L	1	01/02/24 20:50	EPA 6020B	J
Arsenic	0.557	0.500	1.00	ug/L	1	01/02/24 20:50	EPA 6020B	J
Barium	38.4	1.00	2.00	ug/L	1	01/02/24 20:50	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	01/02/24 20:50	EPA 6020B	
Cadmium	0.149	0.100	0.200	ug/L	1	01/02/24 20:50	EPA 6020B	J
Chromium	ND	1.00	2.00	ug/L	1	01/02/24 20:50	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	01/02/24 20:50	EPA 6020B	
Iron	136	25.0	50.0	ug/L	1	01/02/24 20:50	EPA 6020B	
Manganese	17.8	0.500	1.00	ug/L	1	01/02/24 20:50	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	01/02/24 20:50	EPA 6020B	
Nickel	762	10.0	20.0	ug/L	1	01/02/24 20:50	EPA 6020B	

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ORELAP ID: OR100062

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Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-10 (A3L1275-03RE2) Matrix: WG								
Selenium	1.10	0.500	1.00	ug/L	1	01/02/24 20:50	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	01/02/24 20:50	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	01/02/24 20:50	EPA 6020B	
Zinc	38.1	2.00	4.00	ug/L	1	01/02/24 20:50	EPA 6020B	
GS-121323-10 (A3L1275-03RE3) Matrix: WG								
Batch: 23L1103								
Lead	ND	0.110	0.200	ug/L	1	01/04/24 09:39	EPA 6020B	
GS-121323-11 (A3L1275-04RE1) Matrix: WG								
Batch: 23L1103								
Aluminum	ND	25.0	50.0	ug/L	1	01/02/24 20:55	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	01/02/24 20:55	EPA 6020B	
Arsenic	0.519	0.500	1.00	ug/L	1	01/02/24 20:55	EPA 6020B	J
Barium	8.60	1.00	2.00	ug/L	1	01/02/24 20:55	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	01/02/24 20:55	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 20:55	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	01/02/24 20:55	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	01/02/24 20:55	EPA 6020B	
Iron	533	25.0	50.0	ug/L	1	01/02/24 20:55	EPA 6020B	
Manganese	153	0.500	1.00	ug/L	1	01/02/24 20:55	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	01/02/24 20:55	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	01/02/24 20:55	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	01/02/24 20:55	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	01/02/24 20:55	EPA 6020B	
Vanadium	1.10	1.00	2.00	ug/L	1	01/02/24 20:55	EPA 6020B	J
Zinc	4.79	2.00	4.00	ug/L	1	01/02/24 20:55	EPA 6020B	
GS-121323-11 (A3L1275-04RE2) Matrix: WG								
Batch: 23L1103								
Lead	ND	0.110	0.200	ug/L	1	01/03/24 21:48	EPA 6020B	
Nickel	5.46	1.00	2.00	ug/L	1	01/03/24 21:48	EPA 6020B	
GS-121323-12 (A3L1275-05RE1) Matrix: WG								
Batch: 23L1103								

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-12 (A3L1275-05RE1)		Matrix: WG						
Aluminum	ND	25.0	50.0	ug/L	1	01/02/24 21:00	EPA 6020B	J
Antimony	ND	0.500	1.00	ug/L	1	01/02/24 21:00	EPA 6020B	
Arsenic	0.671	0.500	1.00	ug/L	1	01/02/24 21:00	EPA 6020B	
Barium	67.9	1.00	2.00	ug/L	1	01/02/24 21:00	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	01/02/24 21:00	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	01/02/24 21:00	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	01/02/24 21:00	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	01/02/24 21:00	EPA 6020B	
Iron	30800	25.0	50.0	ug/L	1	01/02/24 21:00	EPA 6020B	
Manganese	1800	0.500	1.00	ug/L	1	01/02/24 21:00	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	01/02/24 21:00	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	01/02/24 21:00	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	01/02/24 21:00	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	01/02/24 21:00	EPA 6020B	
Vanadium	3.26	1.00	2.00	ug/L	1	01/02/24 21:00	EPA 6020B	
Zinc	ND	2.00	4.00	ug/L	1	01/02/24 21:00	EPA 6020B	
GS-121323-12 (A3L1275-05RE2)		Matrix: WG						
Batch: 23L1103								
Lead	0.223	0.110	0.200	ug/L	1	01/03/24 21:54	EPA 6020B	J
Nickel	1.23	1.00	2.00	ug/L	1	01/03/24 21:54	EPA 6020B	

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ANALYTICAL REPORT

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Anchor QEA, LLC

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Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

ANALYTICAL SAMPLE RESULTS

Total Cyanide by Flow Analysis (Aqueous)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-08 (A3L1275-01)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.222	0.00500	0.00500	mg/L	1	12/22/23 13:30	EPA 335.4	
GS-121323-09 (A3L1275-02)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.0431	0.00500	0.00500	mg/L	1	12/22/23 13:34	EPA 335.4	
GS-121323-10 (A3L1275-03)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.309	0.00500	0.00500	mg/L	1	12/22/23 13:46	EPA 335.4	
GS-121323-11 (A3L1275-04)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.431	0.00500	0.00500	mg/L	1	12/22/23 13:48	EPA 335.4	
GS-121323-12 (A3L1275-05)				Matrix: WG		Batch: 23L0902		
Total Cyanide	0.0180	0.00500	0.00500	mg/L	1	12/22/23 13:50	EPA 335.4	

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

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ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****ANALYTICAL SAMPLE RESULTS****Available Cyanide by FIA, Ligand Exchange and Amperometric Detection**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-08 (A3L1275-01)				Matrix: WG		Batch: 23L0690		
Available Cyanide	0.00294	0.00100	0.00200	mg/L	1	12/19/23 12:25	D6888-09	
GS-121323-09 (A3L1275-02)				Matrix: WG		Batch: 23L0690		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	12/19/23 12:28	D6888-09	
GS-121323-10 (A3L1275-03)				Matrix: WG		Batch: 23L0690		
Available Cyanide	0.00145	0.00100	0.00200	mg/L	1	12/19/23 12:34	D6888-09	J
GS-121323-11 (A3L1275-04)				Matrix: WG		Batch: 23L0690		
Available Cyanide	0.00476	0.00100	0.00200	mg/L	1	12/19/23 12:35	D6888-09	
GS-121323-12 (A3L1275-05)				Matrix: WG		Batch: 23L0690		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	12/19/23 12:37	D6888-09	

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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****ANALYTICAL SAMPLE RESULTS****Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-121323-08 (A3L1275-01)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:48	D4282-02	
GS-121323-09 (A3L1275-02)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:53	D4282-02	
GS-121323-10 (A3L1275-03)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:54	D4282-02	
GS-121323-11 (A3L1275-04)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:59	D4282-02	
GS-121323-12 (A3L1275-05)				Matrix: WG		Batch: 23L0709		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	12/19/23 14:59	D4282-02	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0980 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (23L0980-BLK1)			Prepared: 12/27/23 06:02		Analyzed: 12/28/23 16:34							
NWTPH-Dx												
Diesel	ND	100	200	ug/L	1	---	---	---	---	---	---	
Oil	ND	200	400	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x						
LCS (23L0980-BS1)			Prepared: 12/27/23 06:02		Analyzed: 12/28/23 16:54							
NWTPH-Dx												
Diesel	1170	100	200	ug/L	1	1250	---	94	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
Matrix Spike (23L0980-MS1)			Prepared: 12/27/23 06:02		Analyzed: 12/28/23 18:15							
QC Source Sample: GS-121323-09 (A3L1275-02)												
NWTPH-Dx												
Diesel	1650	98.0	196	ug/L	1	1230	963	56	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
Matrix Spike Dup (23L0980-MSD1)			Prepared: 12/27/23 06:02		Analyzed: 12/28/23 18:36							
QC Source Sample: GS-121323-09 (A3L1275-02)												
NWTPH-Dx												
Diesel	1690	98.0	196	ug/L	1	1230	963	60	36-132%	3	30%	
Surr: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						

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503-718-2323
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Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****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 23L0783 - EPA 5030C						Water						
Blank (23L0783-BLK1)			Prepared: 12/20/23 09:40		Analyzed: 12/20/23 12:14							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 88 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
LCS (23L0783-BS2)			Prepared: 12/20/23 09:40		Analyzed: 12/20/23 11:51							
NWTPH-Gx (MS)												
Gasoline Range Organics	518	50.0	100	ug/L	1	500	---	104	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		99 %		50-150 %		"						
Duplicate (23L0783-DUP1)			Prepared: 12/20/23 09:40		Analyzed: 12/20/23 19:47							
QC Source Sample: GS-121323-12 (A3L1275-05)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	2500	5000	ug/L	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		108 %		50-150 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0845 - EPA 5030C						Water						
Blank (23L0845-BLK1)			Prepared: 12/21/23 09:43 Analyzed: 12/21/23 12:23									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		96 %		50-150 %		"						
LCS (23L0845-BS2)			Prepared: 12/21/23 09:43 Analyzed: 12/21/23 11:56									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	440	50.0	100	ug/L	1	500	---	88	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		89 %		50-150 %		"						
Duplicate (23L0845-DUP1)			Prepared: 12/21/23 11:44 Analyzed: 12/21/23 17:49									
<u>QC Source Sample: Non-SDG (A3L1507-02)</u>												
Gasoline Range Organics	3600	250	500	ug/L	5	---	3640	---	---	1	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		91 %		50-150 %		"						
Duplicate (23L0845-DUP2)			Prepared: 12/21/23 11:44 Analyzed: 12/21/23 18:43									
<u>QC Source Sample: Non-SDG (A3L1507-04)</u>												
Gasoline Range Organics	3740	500	1000	ug/L	10	---	3810	---	---	2	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		90 %		50-150 %		"						

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Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****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 23L0908 - EPA 5030C						Water						
Blank (23L0908-BLK1)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 16:06							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 85 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
LCS (23L0908-BS2)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 15:44							
NWTPH-Gx (MS)												
Gasoline Range Organics	486	50.0	100	ug/L	1	500	---	97	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 89 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		100 %		50-150 %		"						
Duplicate (23L0908-DUP1)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 23:38							
QC Source Sample: Non-SDG (A3L1258-01)												
Gasoline Range Organics	ND	500	1000	ug/L	10	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 86 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		108 %		50-150 %		"						

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L1017 - EPA 5030C						Water						
Blank (23L1017-BLK1)			Prepared: 12/27/23 14:00 Analyzed: 12/27/23 16:57									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 86 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		107 %		50-150 %		"						
LCS (23L1017-BS2)			Prepared: 12/27/23 14:00 Analyzed: 12/27/23 16:34									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	485	50.0	100	ug/L	1	500	---	97	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
Duplicate (23L1017-DUP1)			Prepared: 12/27/23 14:00 Analyzed: 12/28/23 02:13								TEMP	
<u>QC Source Sample: Non-SDG (A3L1611-01)</u>												
Gasoline Range Organics	1060	50.0	100	ug/L	1	---	1050	---	---	0.6	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						
Duplicate (23L1017-DUP2)			Prepared: 12/27/23 14:00 Analyzed: 12/27/23 23:57								V-13	
<u>QC Source Sample: Non-SDG (A3L1552-01RE1)</u>												
Gasoline Range Organics	4490	250	500	ug/L	5	---	4460	---	---	0.7	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 87 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****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 23L0783 - EPA 5030C						Water						
Blank (23L0783-BLK1)			Prepared: 12/20/23 09:40		Analyzed: 12/20/23 12:14							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0783 - EPA 5030C						Water						
Blank (23L0783-BLK1)						Prepared: 12/20/23 09:40 Analyzed: 12/20/23 12:14						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	10.0	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x												

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Report ID:

A3L1275 - 03 06 24 0857

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 23L0783 - EPA 5030C						Water						
Blank (23L0783-BLK1)				Prepared: 12/20/23 09:40		Analyzed: 12/20/23 12:14						
Surr: Toluene-d8 (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
LCS (23L0783-BS1)				Prepared: 12/20/23 09:40		Analyzed: 12/20/23 11:21						
EPA 8260D												
Acetone	44.5	10.0	20.0	ug/L	1	40.0	---	111	80-120%	---	---	
Acrylonitrile	19.3	1.00	2.00	ug/L	1	20.0	---	96	80-120%	---	---	
Benzene	20.9	0.100	0.200	ug/L	1	20.0	---	105	80-120%	---	---	
Bromobenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Bromochloromethane	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Bromodichloromethane	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromoform	24.0	0.500	1.00	ug/L	1	20.0	---	120	80-120%	---	---	
Bromomethane	25.4	5.00	5.00	ug/L	1	20.0	---	127	80-120%	---	---	Q-56
2-Butanone (MEK)	37.3	5.00	10.0	ug/L	1	40.0	---	93	80-120%	---	---	
n-Butylbenzene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
sec-Butylbenzene	22.7	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
tert-Butylbenzene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Carbon disulfide	21.9	5.00	10.0	ug/L	1	20.0	---	109	80-120%	---	---	
Carbon tetrachloride	24.3	0.500	1.00	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
Chlorobenzene	21.7	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
Chloroethane	23.3	5.00	5.00	ug/L	1	20.0	---	116	80-120%	---	---	
Chloroform	23.0	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Chloromethane	19.4	2.50	5.00	ug/L	1	20.0	---	97	80-120%	---	---	
2-Chlorotoluene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
4-Chlorotoluene	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Dibromochloromethane	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2-Dibromo-3-chloropropane	16.9	2.50	5.00	ug/L	1	20.0	---	85	80-120%	---	---	
1,2-Dibromoethane (EDB)	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Dibromomethane	22.9	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
1,2-Dichlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichlorobenzene	21.9	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
1,4-Dichlorobenzene	20.7	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Dichlorodifluoromethane	23.5	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
1,1-Dichloroethane	21.7	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	

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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 23L0783 - EPA 5030C						Water						
LCS (23L0783-BS1)						Prepared: 12/20/23 09:40 Analyzed: 12/20/23 11:21						
1,2-Dichloroethane (EDC)	22.7	0.200	0.400	ug/L	1	20.0	---	114	80-120%	---	---	
1,1-Dichloroethene	24.2	0.200	0.400	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	18.7	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
trans-1,2-Dichloroethene	23.0	0.200	0.400	ug/L	1	20.0	---	115	80-120%	---	---	
1,2-Dichloropropane	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
1,3-Dichloropropane	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
2,2-Dichloropropane	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,1-Dichloropropene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
cis-1,3-Dichloropropene	18.9	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
trans-1,3-Dichloropropene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Ethylbenzene	21.8	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
Hexachlorobutadiene	19.2	2.50	5.00	ug/L	1	20.0	---	96	80-120%	---	---	
2-Hexanone	31.1	10.0	10.0	ug/L	1	40.0	---	78	80-120%	---	---	Q-55
Isopropylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
4-Isopropyltoluene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Methylene chloride	23.9	5.00	10.0	ug/L	1	20.0	---	119	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	33.7	5.00	10.0	ug/L	1	40.0	---	84	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Naphthalene	13.1	5.00	5.00	ug/L	1	20.0	---	66	80-120%	---	---	Q-55
n-Propylbenzene	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Styrene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1,1,2-Tetrachloroethane	21.4	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
1,1,2,2-Tetrachloroethane	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Tetrachloroethene (PCE)	21.8	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
Toluene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2,3-Trichlorobenzene	18.5	1.00	2.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2,4-Trichlorobenzene	16.0	1.00	2.00	ug/L	1	20.0	---	80	80-120%	---	---	
1,1,1-Trichloroethane	23.3	0.200	0.400	ug/L	1	20.0	---	116	80-120%	---	---	
1,1,2-Trichloroethane	22.3	0.250	0.500	ug/L	1	20.0	---	112	80-120%	---	---	
Trichloroethene (TCE)	20.1	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
Trichlorofluoromethane	27.8	1.00	2.00	ug/L	1	20.0	---	139	80-120%	---	---	Q-56
1,2,3-Trichloropropane	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2,4-Trimethylbenzene	22.9	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
1,3,5-Trimethylbenzene	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0783 - EPA 5030C						Water						
LCS (23L0783-BS1)			Prepared: 12/20/23 09:40		Analyzed: 12/20/23 11:21							
Vinyl chloride	19.7	0.100	0.200	ug/L	1	20.0	---	99	80-120%	---	---	
m,p-Xylene	47.8	0.500	1.00	ug/L	1	40.0	---	120	80-120%	---	---	
o-Xylene	19.0	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		91 %		80-120 %		"						

Duplicate (23L0783-DUP1)

Prepared: 12/20/23 09:40 Analyzed: 12/20/23 19:47

QC Source Sample: GS-121323-12 (A3L1275-05)

EPA 8260D

Acetone	ND	500	1000	ug/L	50	---	ND	---	---	---	30%
Acrylonitrile	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%
Benzene	ND	5.00	10.0	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 disulfide	ND	250	500	ug/L	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%
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%
Dibromochloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	125	250	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%

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Darwin Thomas, Business Development Director



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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0783 - EPA 5030C						Water						
Duplicate (23L0783-DUP1)			Prepared: 12/20/23 09:40 Analyzed: 12/20/23 19:47									
QC Source Sample: GS-121323-12 (A3L1275-05)												
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	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
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%	
Methylene chloride	ND	250	500	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%	
Naphthalene	ND	250	250	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	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
Toluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

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Report ID:

A3L1275 - 03 06 24 0857

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 23L0783 - EPA 5030C						Water						
Duplicate (23L0783-DUP1)			Prepared: 12/20/23 09:40		Analyzed: 12/20/23 19:47							
QC Source Sample: GS-121323-12 (A3L1275-05)												
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	10.0	20.0	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	5.00	10.0	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						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

Matrix Spike (23L0783-MS1)

Prepared: 12/20/23 09:40 Analyzed: 12/20/23 14:30

QC Source Sample: GS-121323-09 (A3L1275-02)

EPA 8260D												
Acetone	43.7	10.0	20.0	ug/L	1	40.0	ND	109	39-160%	---	---	
Acrylonitrile	18.2	1.00	2.00	ug/L	1	20.0	ND	91	63-135%	---	---	
Benzene	1070	0.100	0.200	ug/L	1	20.0	1110	-169	79-120%	---	---	E, Q-03
Bromobenzene	19.9	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	
Bromochloromethane	19.0	0.500	1.00	ug/L	1	20.0	ND	95	78-123%	---	---	
Bromodichloromethane	20.7	0.500	1.00	ug/L	1	20.0	ND	103	79-125%	---	---	
Bromoform	21.9	0.500	1.00	ug/L	1	20.0	ND	110	66-130%	---	---	
Bromomethane	23.1	5.00	5.00	ug/L	1	20.0	ND	116	53-141%	---	---	Q-54o
2-Butanone (MEK)	34.7	5.00	10.0	ug/L	1	40.0	ND	87	56-143%	---	---	
n-Butylbenzene	25.4	0.500	1.00	ug/L	1	20.0	ND	127	75-128%	---	---	
sec-Butylbenzene	24.8	0.500	1.00	ug/L	1	20.0	ND	124	77-126%	---	---	
tert-Butylbenzene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	78-124%	---	---	
Carbon disulfide	22.4	5.00	10.0	ug/L	1	20.0	ND	112	64-133%	---	---	
Carbon tetrachloride	23.8	0.500	1.00	ug/L	1	20.0	ND	119	72-136%	---	---	Q-54h
Chlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	ND	104	80-120%	---	---	
Chloroethane	23.3	5.00	5.00	ug/L	1	20.0	ND	116	60-138%	---	---	
Chloroform	21.1	0.500	1.00	ug/L	1	20.0	ND	105	79-124%	---	---	

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Project Manager: John Renda

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A3L1275 - 03 06 24 0857

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 23L0783 - EPA 5030C						Water						
Matrix Spike (23L0783-MS1)				Prepared: 12/20/23 09:40		Analyzed: 12/20/23 14:30						
QC Source Sample: GS-121323-09 (A3L1275-02)												
Chloromethane	19.8	2.50	5.00	ug/L	1	20.0	ND	99	50-139%	---	---	
2-Chlorotoluene	21.2	0.500	1.00	ug/L	1	20.0	ND	106	79-122%	---	---	
4-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	ND	105	78-122%	---	---	
Dibromochloromethane	20.2	0.500	1.00	ug/L	1	20.0	ND	101	74-126%	---	---	
1,2-Dibromo-3-chloropropane	18.0	2.50	5.00	ug/L	1	20.0	ND	90	62-128%	---	---	
1,2-Dibromoethane (EDB)	20.0	0.250	0.500	ug/L	1	20.0	ND	100	77-121%	---	---	
Dibromomethane	21.1	0.500	1.00	ug/L	1	20.0	ND	105	79-123%	---	---	
1,2-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	ND	103	80-120%	---	---	
1,3-Dichlorobenzene	21.6	0.250	0.500	ug/L	1	20.0	ND	108	80-120%	---	---	
1,4-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0	ND	101	79-120%	---	---	
Dichlorodifluoromethane	24.7	0.500	1.00	ug/L	1	20.0	ND	123	32-152%	---	---	
1,1-Dichloroethane	20.2	0.200	0.400	ug/L	1	20.0	ND	101	77-125%	---	---	
1,2-Dichloroethane (EDC)	20.5	0.200	0.400	ug/L	1	20.0	ND	102	73-128%	---	---	
1,1-Dichloroethene	24.3	0.200	0.400	ug/L	1	20.0	ND	122	71-131%	---	---	Q-54
cis-1,2-Dichloroethene	18.2	0.200	0.400	ug/L	1	20.0	ND	91	78-123%	---	---	
trans-1,2-Dichloroethene	22.5	0.200	0.400	ug/L	1	20.0	ND	112	75-124%	---	---	
1,2-Dichloropropane	19.1	0.250	0.500	ug/L	1	20.0	ND	95	78-122%	---	---	
1,3-Dichloropropane	18.9	0.500	1.00	ug/L	1	20.0	ND	94	80-120%	---	---	
2,2-Dichloropropane	22.6	0.500	1.00	ug/L	1	20.0	ND	113	60-139%	---	---	
1,1-Dichloropropene	20.6	0.500	1.00	ug/L	1	20.0	ND	103	79-125%	---	---	
cis-1,3-Dichloropropene	15.4	0.500	1.00	ug/L	1	20.0	ND	77	75-124%	---	---	
trans-1,3-Dichloropropene	20.2	0.500	1.00	ug/L	1	20.0	ND	101	73-127%	---	---	
Ethylbenzene	51.3	0.250	0.500	ug/L	1	20.0	29.6	108	79-121%	---	---	
Hexachlorobutadiene	22.7	2.50	5.00	ug/L	1	20.0	ND	114	66-134%	---	---	
2-Hexanone	32.0	10.0	10.0	ug/L	1	40.0	ND	80	57-139%	---	---	Q-54u
Isopropylbenzene	26.8	0.500	1.00	ug/L	1	20.0	2.21	123	72-131%	---	---	
4-Isopropyltoluene	22.9	0.500	1.00	ug/L	1	20.0	ND	114	77-127%	---	---	
Methylene chloride	21.7	5.00	10.0	ug/L	1	20.0	ND	108	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	34.6	5.00	10.0	ug/L	1	40.0	ND	87	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	20.0	0.500	1.00	ug/L	1	20.0	ND	100	71-124%	---	---	
Naphthalene	275	5.00	5.00	ug/L	1	20.0	292	-86	61-128%	---	---	Q-54r, E
n-Propylbenzene	21.9	0.250	0.500	ug/L	1	20.0	0.260	108	76-126%	---	---	
Styrene	21.4	0.500	1.00	ug/L	1	20.0	0.610	104	78-123%	---	---	

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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 23L0783 - EPA 5030C						Water						
Matrix Spike (23L0783-MS1)			Prepared: 12/20/23 09:40 Analyzed: 12/20/23 14:30									
QC Source Sample: GS-121323-09 (A3L1275-02)												
1,1,1,2-Tetrachloroethane	20.0	0.200	0.400	ug/L	1	20.0	ND	100	78-124%	---	---	E, Q-03
1,1,2,2-Tetrachloroethane	20.0	0.250	0.500	ug/L	1	20.0	ND	100	71-121%	---	---	
Tetrachloroethene (PCE)	22.9	0.200	0.400	ug/L	1	20.0	ND	114	74-129%	---	---	
Toluene	414	0.500	1.00	ug/L	1	20.0	473	-293	80-121%	---	---	
1,2,3-Trichlorobenzene	22.7	1.00	2.00	ug/L	1	20.0	ND	113	69-129%	---	---	Q-54g
1,2,4-Trichlorobenzene	21.0	1.00	2.00	ug/L	1	20.0	ND	105	69-130%	---	---	
1,1,1-Trichloroethane	22.2	0.200	0.400	ug/L	1	20.0	ND	111	74-131%	---	---	
1,1,2-Trichloroethane	20.9	0.250	0.500	ug/L	1	20.0	ND	104	80-120%	---	---	
Trichloroethene (TCE)	20.7	0.200	0.400	ug/L	1	20.0	ND	103	79-123%	---	---	Q-01
Trichlorofluoromethane	28.4	1.00	2.00	ug/L	1	20.0	ND	142	65-141%	---	---	
1,2,3-Trichloropropane	20.4	0.500	1.00	ug/L	1	20.0	ND	102	73-122%	---	---	
1,2,4-Trimethylbenzene	30.6	0.500	1.00	ug/L	1	20.0	3.66	134	76-124%	---	---	
1,3,5-Trimethylbenzene	25.2	0.500	1.00	ug/L	1	20.0	1.35	120	75-124%	---	---	
Vinyl chloride	22.2	0.100	0.200	ug/L	1	20.0	ND	111	58-137%	---	---	
m,p-Xylene	155	0.500	1.00	ug/L	1	40.0	122	82	80-121%	---	---	
o-Xylene	75.5	0.250	0.500	ug/L	1	20.0	55.7	99	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		93 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						

Matrix Spike Dup (23L0783-MSD1)

Prepared: 12/20/23 09:40 Analyzed: 12/20/23 14:53

QC Source Sample: GS-121323-09 (A3L1275-02)

EPA 8260D

Acetone	45.6	10.0	20.0	ug/L	1	40.0	ND	114	39-160%	4	30%	
Acrylonitrile	19.6	1.00	2.00	ug/L	1	20.0	ND	98	63-135%	8	30%	
Benzene	1030	0.100	0.200	ug/L	1	20.0	1110	-396	79-120%	4	30%	E, Q-03
Bromobenzene	21.3	0.250	0.500	ug/L	1	20.0	ND	107	80-120%	7	30%	
Bromochloromethane	20.1	0.500	1.00	ug/L	1	20.0	ND	101	78-123%	6	30%	
Bromodichloromethane	21.6	0.500	1.00	ug/L	1	20.0	ND	108	79-125%	5	30%	
Bromoform	23.2	0.500	1.00	ug/L	1	20.0	ND	116	66-130%	6	30%	
Bromomethane	22.6	5.00	5.00	ug/L	1	20.0	ND	113	53-141%	2	30%	Q-54o
2-Butanone (MEK)	38.7	5.00	10.0	ug/L	1	40.0	ND	97	56-143%	11	30%	
n-Butylbenzene	27.3	0.500	1.00	ug/L	1	20.0	ND	136	75-128%	7	30%	Q-01

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****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 23L0783 - EPA 5030C						Water						
Matrix Spike Dup (23L0783-MSD1)			Prepared: 12/20/23 09:40		Analyzed: 12/20/23 14:53							
QC Source Sample: GS-121323-09 (A3L1275-02)												
sec-Butylbenzene	26.8	0.500	1.00	ug/L	1	20.0	ND	134	77-126%	8	30%	Q-01
tert-Butylbenzene	24.3	0.500	1.00	ug/L	1	20.0	ND	121	78-124%	9	30%	
Carbon disulfide	23.3	5.00	10.0	ug/L	1	20.0	ND	116	64-133%	4	30%	
Carbon tetrachloride	24.9	0.500	1.00	ug/L	1	20.0	ND	125	72-136%	5	30%	Q-54h
Chlorobenzene	22.1	0.250	0.500	ug/L	1	20.0	ND	111	80-120%	6	30%	
Chloroethane	24.1	5.00	5.00	ug/L	1	20.0	ND	120	60-138%	3	30%	
Chloroform	22.3	0.500	1.00	ug/L	1	20.0	ND	112	79-124%	6	30%	
Chloromethane	20.8	2.50	5.00	ug/L	1	20.0	ND	104	50-139%	5	30%	
2-Chlorotoluene	23.1	0.500	1.00	ug/L	1	20.0	ND	115	79-122%	8	30%	
4-Chlorotoluene	22.7	0.500	1.00	ug/L	1	20.0	ND	114	78-122%	8	30%	
Dibromochloromethane	21.6	0.500	1.00	ug/L	1	20.0	ND	108	74-126%	7	30%	
1,2-Dibromo-3-chloropropane	19.3	2.50	5.00	ug/L	1	20.0	ND	97	62-128%	7	30%	
1,2-Dibromoethane (EDB)	21.6	0.250	0.500	ug/L	1	20.0	ND	108	77-121%	8	30%	
Dibromomethane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	79-123%	6	30%	
1,2-Dichlorobenzene	22.2	0.250	0.500	ug/L	1	20.0	ND	111	80-120%	8	30%	
1,3-Dichlorobenzene	23.0	0.250	0.500	ug/L	1	20.0	ND	115	80-120%	6	30%	
1,4-Dichlorobenzene	21.6	0.250	0.500	ug/L	1	20.0	ND	108	79-120%	7	30%	
Dichlorodifluoromethane	26.0	0.500	1.00	ug/L	1	20.0	ND	130	32-152%	5	30%	
1,1-Dichloroethane	21.3	0.200	0.400	ug/L	1	20.0	ND	107	77-125%	5	30%	
1,2-Dichloroethane (EDC)	21.4	0.200	0.400	ug/L	1	20.0	ND	107	73-128%	4	30%	
1,1-Dichloroethene	25.1	0.200	0.400	ug/L	1	20.0	ND	126	71-131%	3	30%	Q-54
cis-1,2-Dichloroethene	20.2	0.200	0.400	ug/L	1	20.0	ND	101	78-123%	11	30%	
trans-1,2-Dichloroethene	23.3	0.200	0.400	ug/L	1	20.0	ND	117	75-124%	4	30%	
1,2-Dichloropropane	20.6	0.250	0.500	ug/L	1	20.0	ND	103	78-122%	8	30%	
1,3-Dichloropropane	20.4	0.500	1.00	ug/L	1	20.0	ND	102	80-120%	8	30%	
2,2-Dichloropropane	24.0	0.500	1.00	ug/L	1	20.0	ND	120	60-139%	6	30%	
1,1-Dichloropropene	23.3	0.500	1.00	ug/L	1	20.0	ND	116	79-125%	12	30%	
cis-1,3-Dichloropropene	17.4	0.500	1.00	ug/L	1	20.0	ND	87	75-124%	13	30%	
trans-1,3-Dichloropropene	21.9	0.500	1.00	ug/L	1	20.0	ND	110	73-127%	8	30%	
Ethylbenzene	53.4	0.250	0.500	ug/L	1	20.0	29.6	119	79-121%	4	30%	
Hexachlorobutadiene	24.5	2.50	5.00	ug/L	1	20.0	ND	123	66-134%	8	30%	
2-Hexanone	36.5	10.0	10.0	ug/L	1	40.0	ND	91	57-139%	13	30%	Q-54u
Isopropylbenzene	29.6	0.500	1.00	ug/L	1	20.0	2.21	137	72-131%	10	30%	Q-01

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0783 - EPA 5030C						Water						
Matrix Spike Dup (23L0783-MSD1)			Prepared: 12/20/23 09:40		Analyzed: 12/20/23 14:53							
QC Source Sample: GS-121323-09 (A3L1275-02)												
4-Isopropyltoluene	25.4	0.500	1.00	ug/L	1	20.0	ND	127	77-127%	10	30%	
Methylene chloride	21.7	5.00	10.0	ug/L	1	20.0	ND	108	74-124%	0.09	30%	
4-Methyl-2-pentanone (MiBK)	38.6	5.00	10.0	ug/L	1	40.0	ND	96	67-130%	11	30%	
Methyl tert-butyl ether (MTBE)	21.0	0.500	1.00	ug/L	1	20.0	ND	105	71-124%	5	30%	
Naphthalene	272	5.00	5.00	ug/L	1	20.0	292	-98	61-128%	0.9	30%	Q-54r, E
n-Propylbenzene	23.6	0.250	0.500	ug/L	1	20.0	0.260	117	76-126%	7	30%	
Styrene	23.3	0.500	1.00	ug/L	1	20.0	0.610	114	78-123%	8	30%	
1,1,1,2-Tetrachloroethane	21.3	0.200	0.400	ug/L	1	20.0	ND	106	78-124%	6	30%	
1,1,2,2-Tetrachloroethane	20.9	0.250	0.500	ug/L	1	20.0	ND	104	71-121%	4	30%	
Tetrachloroethene (PCE)	24.6	0.200	0.400	ug/L	1	20.0	ND	123	74-129%	7	30%	
Toluene	411	0.500	1.00	ug/L	1	20.0	473	-309	80-121%	0.8	30%	E, Q-03
1,2,3-Trichlorobenzene	24.6	1.00	2.00	ug/L	1	20.0	ND	123	69-129%	8	30%	
1,2,4-Trichlorobenzene	23.4	1.00	2.00	ug/L	1	20.0	ND	117	69-130%	11	30%	
1,1,1-Trichloroethane	23.6	0.200	0.400	ug/L	1	20.0	ND	118	74-131%	6	30%	
1,1,2-Trichloroethane	22.0	0.250	0.500	ug/L	1	20.0	ND	110	80-120%	5	30%	
Trichloroethene (TCE)	22.4	0.200	0.400	ug/L	1	20.0	ND	112	79-123%	8	30%	
Trichlorofluoromethane	28.7	1.00	2.00	ug/L	1	20.0	ND	143	65-141%	1	30%	Q-54g
1,2,3-Trichloropropane	21.3	0.500	1.00	ug/L	1	20.0	ND	106	73-122%	4	30%	
1,2,4-Trimethylbenzene	32.1	0.500	1.00	ug/L	1	20.0	3.66	142	76-124%	5	30%	Q-01
1,3,5-Trimethylbenzene	26.5	0.500	1.00	ug/L	1	20.0	1.35	126	75-124%	5	30%	Q-01
Vinyl chloride	23.6	0.100	0.200	ug/L	1	20.0	ND	118	58-137%	6	30%	
m,p-Xylene	157	0.500	1.00	ug/L	1	40.0	122	86	80-121%	1	30%	
o-Xylene	78.3	0.250	0.500	ug/L	1	20.0	55.7	113	78-122%	4	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		94 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0845 - EPA 5030C						Water						
Blank (23L0845-BLK1)			Prepared: 12/21/23 09:43 Analyzed: 12/21/23 12:23									
EPA 8260D												
Naphthalene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						
LCS (23L0845-BS1)			Prepared: 12/21/23 09:43 Analyzed: 12/21/23 11:19									
EPA 8260D												
Naphthalene	16.2	2.50	5.00	ug/L	1	20.0	---	81	80-120%	---	---	
Toluene	18.7	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 91 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						
Duplicate (23L0845-DUP1)			Prepared: 12/21/23 11:44 Analyzed: 12/21/23 17:49									
QC Source Sample: Non-SDG (A3L1507-02)												
Naphthalene	51.4	12.5	25.0	ug/L	5	---	50.4	---	---	2	30%	
Toluene	4.05	2.50	5.00	ug/L	5	---	4.05	---	---	0	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Duplicate (23L0845-DUP2)			Prepared: 12/21/23 11:44 Analyzed: 12/21/23 18:43									
QC Source Sample: Non-SDG (A3L1507-04)												
Naphthalene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Matrix Spike (23L0845-MS1)			Prepared: 12/21/23 11:44 Analyzed: 12/21/23 22:47									

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0845 - EPA 5030C						Water						
Matrix Spike (23L0845-MS1)			Prepared: 12/21/23 11:44 Analyzed: 12/21/23 22:47									
QC Source Sample: GS-121323-09 (A3L1275-02RE1)												
EPA 8260D												
Naphthalene	679	50.0	100	ug/L	20	400	192	122	61-128%	---	---	
Toluene	818	10.0	20.0	ug/L	20	400	422	99	80-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		95 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						
Matrix Spike Dup (23L0845-MSD1)			Prepared: 12/21/23 11:44 Analyzed: 12/21/23 23:14									
QC Source Sample: GS-121323-09 (A3L1275-02RE1)												
EPA 8260D												
Naphthalene	662	50.0	100	ug/L	20	400	192	117	61-128%	3	30%	
Toluene	760	10.0	20.0	ug/L	20	400	422	84	80-121%	7	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		95 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****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 23L0908 - EPA 5030C						Water						
Blank (23L0908-BLK1)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 16:06							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0908 - EPA 5030C						Water						
Blank (23L0908-BLK1)						Prepared: 12/22/23 10:35 Analyzed: 12/22/23 16:06						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	10.0	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr)

Recovery: 105 %

Limits: 80-120 %

Dilution: 1x

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Darwin Thomas, Business Development Director

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0908 - EPA 5030C						Water						
Blank (23L0908-BLK1)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 16:06							
Surr: Toluene-d8 (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
LCS (23L0908-BS1)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 15:16							
EPA 8260D												
Acetone	43.8	10.0	20.0	ug/L	1	40.0	---	110	80-120%	---	---	
Acrylonitrile	19.3	1.00	2.00	ug/L	1	20.0	---	97	80-120%	---	---	
Benzene	21.1	0.100	0.200	ug/L	1	20.0	---	105	80-120%	---	---	
Bromobenzene	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Bromochloromethane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Bromodichloromethane	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromoform	23.9	0.500	1.00	ug/L	1	20.0	---	119	80-120%	---	---	
Bromomethane	24.9	5.00	5.00	ug/L	1	20.0	---	124	80-120%	---	---	Q-56
2-Butanone (MEK)	35.5	5.00	10.0	ug/L	1	40.0	---	89	80-120%	---	---	
n-Butylbenzene	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
sec-Butylbenzene	23.2	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
tert-Butylbenzene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Carbon disulfide	23.7	5.00	10.0	ug/L	1	20.0	---	119	80-120%	---	---	
Carbon tetrachloride	24.5	0.500	1.00	ug/L	1	20.0	---	123	80-120%	---	---	Q-56
Chlorobenzene	21.9	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Chloroethane	25.2	5.00	5.00	ug/L	1	20.0	---	126	80-120%	---	---	Q-56
Chloroform	23.4	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
Chloromethane	20.0	2.50	5.00	ug/L	1	20.0	---	100	80-120%	---	---	
2-Chlorotoluene	20.1	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
4-Chlorotoluene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Dibromochloromethane	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2-Dibromo-3-chloropropane	16.0	2.50	5.00	ug/L	1	20.0	---	80	80-120%	---	---	
1,2-Dibromoethane (EDB)	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Dibromomethane	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,2-Dichlorobenzene	21.1	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
1,3-Dichlorobenzene	22.7	0.250	0.500	ug/L	1	20.0	---	113	80-120%	---	---	
1,4-Dichlorobenzene	21.3	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Dichlorodifluoromethane	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,1-Dichloroethane	22.2	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0908 - EPA 5030C						Water						
LCS (23L0908-BS1)						Prepared: 12/22/23 10:35 Analyzed: 12/22/23 15:16						
1,2-Dichloroethane (EDC)	23.0	0.200	0.400	ug/L	1	20.0	---	115	80-120%	---	---	
1,1-Dichloroethene	25.8	0.200	0.400	ug/L	1	20.0	---	129	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	19.2	0.200	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
trans-1,2-Dichloroethene	24.6	0.200	0.400	ug/L	1	20.0	---	123	80-120%	---	---	Q-56
1,2-Dichloropropane	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
1,3-Dichloropropane	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
2,2-Dichloropropane	23.6	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
1,1-Dichloropropene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
cis-1,3-Dichloropropene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
trans-1,3-Dichloropropene	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Ethylbenzene	22.0	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Hexachlorobutadiene	20.4	2.50	5.00	ug/L	1	20.0	---	102	80-120%	---	---	
2-Hexanone	29.1	10.0	10.0	ug/L	1	40.0	---	73	80-120%	---	---	Q-55
Isopropylbenzene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
4-Isopropyltoluene	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Methylene chloride	25.5	5.00	10.0	ug/L	1	20.0	---	127	80-120%	---	---	Q-56
4-Methyl-2-pentanone (MiBK)	32.5	5.00	10.0	ug/L	1	40.0	---	81	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Naphthalene	12.6	5.00	5.00	ug/L	1	20.0	---	63	80-120%	---	---	Q-55
n-Propylbenzene	21.9	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
Styrene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1,1,2-Tetrachloroethane	22.2	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
1,1,2,2-Tetrachloroethane	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Tetrachloroethene (PCE)	22.1	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
Toluene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2,3-Trichlorobenzene	18.6	1.00	2.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2,4-Trichlorobenzene	16.6	1.00	2.00	ug/L	1	20.0	---	83	80-120%	---	---	
1,1,1-Trichloroethane	23.2	0.200	0.400	ug/L	1	20.0	---	116	80-120%	---	---	
1,1,2-Trichloroethane	22.9	0.250	0.500	ug/L	1	20.0	---	114	80-120%	---	---	
Trichloroethene (TCE)	19.8	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
Trichlorofluoromethane	29.6	1.00	2.00	ug/L	1	20.0	---	148	80-120%	---	---	Q-56
1,2,3-Trichloropropane	21.7	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,2,4-Trimethylbenzene	23.1	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
1,3,5-Trimethylbenzene	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	

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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 23L0908 - EPA 5030C						Water						
LCS (23L0908-BS1)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 15:16							
Vinyl chloride	21.3	0.100	0.200	ug/L	1	20.0	---	106	80-120%	---	---	Q-56
m,p-Xylene	48.4	0.500	1.00	ug/L	1	40.0	---	121	80-120%	---	---	
o-Xylene	18.9	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		91 %		80-120 %		"						

Duplicate (23L0908-DUP1)

Prepared: 12/22/23 10:35 Analyzed: 12/22/23 23:38

QC Source Sample: Non-SDG (A3L1258-01)

Acetone	ND	100	200	ug/L	10	---	ND	---	---	---	30%
Acrylonitrile	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%
Benzene	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%
Bromobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%
Bromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Bromodichloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Bromoform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Bromomethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%
n-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Carbon disulfide	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Chlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%
Chloroethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%
Chloroform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Chloromethane	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Dibromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%
Dibromomethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0908 - EPA 5030C						Water						
Duplicate (23L0908-DUP1)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 23:38							
QC Source Sample: Non-SDG (A3L1258-01)												
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	4.00	4.00	ug/L	10	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Hexanone	ND	100	100	ug/L	10	---	ND	---	---	---	30%	
Isopropylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Methylene chloride	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%	
n-Propylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Styrene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0908 - EPA 5030C						Water						
Duplicate (23L0908-DUP1)			Prepared: 12/22/23 10:35 Analyzed: 12/22/23 23:38									
QC Source Sample: Non-SDG (A3L1258-01)												
Trichloroethene (TCE)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Vinyl chloride	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	
m,p-Xylene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
o-Xylene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
Matrix Spike (23L0908-MS1)						Prepared: 12/22/23 10:35 Analyzed: 12/22/23 20:38						
QC Source Sample: Non-SDG (A3L1550-01)												
EPA 8260D												
Acetone	53.7	10.0	20.0	ug/L	1	40.0	ND	134	39-160%	---	---	
Acrylonitrile	10.1	1.00	2.00	ug/L	1	20.0	ND	50	63-135%	---	---	Q-01
Benzene	21.5	0.100	0.200	ug/L	1	20.0	ND	107	79-120%	---	---	
Bromobenzene	20.7	0.250	0.500	ug/L	1	20.0	ND	103	80-120%	---	---	
Bromochloromethane	21.3	0.500	1.00	ug/L	1	20.0	ND	106	78-123%	---	---	
Bromodichloromethane	23.8	0.500	1.00	ug/L	1	20.0	0.750	115	79-125%	---	---	
Bromoform	24.6	0.500	1.00	ug/L	1	20.0	ND	123	66-130%	---	---	
Bromomethane	30.4	5.00	5.00	ug/L	1	20.0	ND	152	53-141%	---	---	Q-54
2-Butanone (MEK)	16.8	5.00	10.0	ug/L	1	40.0	ND	42	56-143%	---	---	Q-01
n-Butylbenzene	14.0	0.500	1.00	ug/L	1	20.0	ND	70	75-128%	---	---	Q-01
sec-Butylbenzene	23.6	0.500	1.00	ug/L	1	20.0	ND	118	77-126%	---	---	
tert-Butylbenzene	22.3	0.500	1.00	ug/L	1	20.0	ND	111	78-124%	---	---	
Carbon disulfide	25.6	5.00	10.0	ug/L	1	20.0	ND	128	64-133%	---	---	
Carbon tetrachloride	27.3	0.500	1.00	ug/L	1	20.0	ND	136	72-136%	---	---	Q-54
Chlorobenzene	22.7	0.250	0.500	ug/L	1	20.0	ND	113	80-120%	---	---	
Chloroethane	27.0	5.00	5.00	ug/L	1	20.0	ND	135	60-138%	---	---	Q-54n
Chloroform	39.9	0.500	1.00	ug/L	1	20.0	18.8	106	79-124%	---	---	
Chloromethane	21.3	2.50	5.00	ug/L	1	20.0	ND	107	50-139%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0908 - EPA 5030C						Water						
Matrix Spike (23L0908-MS1)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 20:38							
QC Source Sample: Non-SDG (A3L1550-01)												
2-Chlorotoluene	21.1	0.500	1.00	ug/L	1	20.0	ND	105	79-122%	---	---	
4-Chlorotoluene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	78-122%	---	---	
Dibromochloromethane	22.6	0.500	1.00	ug/L	1	20.0	ND	113	74-126%	---	---	
1,2-Dibromo-3-chloropropane	19.0	2.50	5.00	ug/L	1	20.0	ND	95	62-128%	---	---	
1,2-Dibromoethane (EDB)	21.3	0.250	0.500	ug/L	1	20.0	ND	107	77-121%	---	---	
Dibromomethane	22.8	0.500	1.00	ug/L	1	20.0	ND	114	79-123%	---	---	
1,2-Dichlorobenzene	21.7	0.250	0.500	ug/L	1	20.0	ND	108	80-120%	---	---	
1,3-Dichlorobenzene	23.2	0.250	0.500	ug/L	1	20.0	ND	116	80-120%	---	---	
1,4-Dichlorobenzene	21.6	0.250	0.500	ug/L	1	20.0	ND	108	79-120%	---	---	
Dichlorodifluoromethane	25.7	0.500	1.00	ug/L	1	20.0	ND	128	32-152%	---	---	
1,1-Dichloroethane	22.9	0.200	0.400	ug/L	1	20.0	ND	115	77-125%	---	---	
1,2-Dichloroethane (EDC)	23.1	0.200	0.400	ug/L	1	20.0	ND	116	73-128%	---	---	
1,1-Dichloroethene	28.0	0.200	0.400	ug/L	1	20.0	ND	140	71-131%	---	---	Q-54q
cis-1,2-Dichloroethene	18.3	0.200	0.400	ug/L	1	20.0	ND	91	78-123%	---	---	
trans-1,2-Dichloroethene	26.5	0.200	0.400	ug/L	1	20.0	ND	133	75-124%	---	---	Q-54j
1,2-Dichloropropane	20.0	0.250	0.500	ug/L	1	20.0	ND	100	78-122%	---	---	
1,3-Dichloropropane	19.6	0.500	1.00	ug/L	1	20.0	ND	98	80-120%	---	---	
2,2-Dichloropropane	21.2	0.500	1.00	ug/L	1	20.0	ND	106	60-139%	---	---	
1,1-Dichloropropene	20.1	0.500	1.00	ug/L	1	20.0	ND	100	79-125%	---	---	
cis-1,3-Dichloropropene	18.8	0.500	1.00	ug/L	1	20.0	ND	94	75-124%	---	---	
trans-1,3-Dichloropropene	21.2	0.500	1.00	ug/L	1	20.0	ND	106	73-127%	---	---	
Ethylbenzene	22.1	0.250	0.500	ug/L	1	20.0	ND	110	79-121%	---	---	
Hexachlorobutadiene	24.9	2.50	5.00	ug/L	1	20.0	ND	125	66-134%	---	---	
2-Hexanone	24.7	10.0	10.0	ug/L	1	40.0	ND	62	57-139%	---	---	Q-54w
Isopropylbenzene	22.6	0.500	1.00	ug/L	1	20.0	ND	113	72-131%	---	---	
4-Isopropyltoluene	21.2	0.500	1.00	ug/L	1	20.0	ND	106	77-127%	---	---	
Methylene chloride	26.2	5.00	10.0	ug/L	1	20.0	ND	131	74-124%	---	---	Q-54o
4-Methyl-2-pentanone (MiBK)	31.4	5.00	10.0	ug/L	1	40.0	ND	79	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	22.3	0.500	1.00	ug/L	1	20.0	ND	112	71-124%	---	---	
Naphthalene	15.8	5.00	5.00	ug/L	1	20.0	ND	79	61-128%	---	---	Q-54s
n-Propylbenzene	21.6	0.250	0.500	ug/L	1	20.0	ND	108	76-126%	---	---	
Styrene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	78-123%	---	---	
1,1,1,2-Tetrachloroethane	23.2	0.200	0.400	ug/L	1	20.0	ND	116	78-124%	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0908 - EPA 5030C						Water						
Matrix Spike (23L0908-MS1)			Prepared: 12/22/23 10:35		Analyzed: 12/22/23 20:38							
QC Source Sample: Non-SDG (A3L1550-01)												
1,1,2,2-Tetrachloroethane	21.8	0.250	0.500	ug/L	1	20.0	ND	109	71-121%	---	---	Q-54i
Tetrachloroethene (PCE)	24.2	0.200	0.400	ug/L	1	20.0	ND	121	74-129%	---	---	
Toluene	22.3	0.500	1.00	ug/L	1	20.0	ND	112	80-121%	---	---	
1,2,3-Trichlorobenzene	20.2	1.00	2.00	ug/L	1	20.0	ND	101	69-129%	---	---	
1,2,4-Trichlorobenzene	21.2	1.00	2.00	ug/L	1	20.0	ND	106	69-130%	---	---	
1,1,1-Trichloroethane	25.6	0.200	0.400	ug/L	1	20.0	ND	128	74-131%	---	---	
1,1,2-Trichloroethane	23.1	0.250	0.500	ug/L	1	20.0	ND	115	80-120%	---	---	
Trichloroethene (TCE)	20.5	0.200	0.400	ug/L	1	20.0	ND	102	79-123%	---	---	
Trichlorofluoromethane	34.3	1.00	2.00	ug/L	1	20.0	ND	172	65-141%	---	---	
1,2,3-Trichloropropane	22.7	0.500	1.00	ug/L	1	20.0	ND	113	73-122%	---	---	
1,2,4-Trimethylbenzene	23.6	0.500	1.00	ug/L	1	20.0	ND	118	76-124%	---	---	Q-54
1,3,5-Trimethylbenzene	23.8	0.500	1.00	ug/L	1	20.0	ND	119	75-124%	---	---	
Vinyl chloride	22.3	0.100	0.200	ug/L	1	20.0	ND	111	58-137%	---	---	
m,p-Xylene	50.2	0.500	1.00	ug/L	1	40.0	ND	126	80-121%	---	---	
o-Xylene	19.3	0.250	0.500	ug/L	1	20.0	ND	96	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		89 %		80-120 %		"						

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L0918 - EPA 5030C						Water						
Blank (23L0918-BLK1)			Prepared: 12/22/23 13:34 Analyzed: 12/23/23 06:46									
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
LCS (23L0918-BS1)			Prepared: 12/22/23 13:34 Analyzed: 12/23/23 05:52									
EPA 8260D												
Benzene	17.2	0.100	0.200	ug/L	1	20.0	---	86	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
Duplicate (23L0918-DUP1)			Prepared: 12/22/23 13:34 Analyzed: 12/23/23 15:21									
QC Source Sample: Non-SDG (A3L1552-01)												
Benzene	270	0.500	1.00	ug/L	5	---	270	---	---	0.2	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Duplicate (23L0918-DUP2)			Prepared: 12/22/23 13:34 Analyzed: 12/23/23 16:43									
QC Source Sample: Non-SDG (A3L1565-10)												
Benzene	1.50	1.00	2.00	ug/L	10	---	2.50	---	---	50	30%	Q-05, J
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						
Matrix Spike (23L0918-MS1)			Prepared: 12/22/23 13:34 Analyzed: 12/23/23 17:10									
QC Source Sample: GS-121323-09 (A3L1275-02RE2)												
EPA 8260D												
Benzene	8600	20.0	40.0	ug/L	200	4000	4580	100	79-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857**

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 23L0918 - EPA 5030C						Water						
Matrix Spike (23L0918-MS1)			Prepared: 12/22/23 13:34 Analyzed: 12/23/23 17:10									
QC Source Sample: GS-121323-09 (A3L1275-02RE2)												
Surr: Toluene-d8 (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
Matrix Spike Dup (23L0918-MSD1)			Prepared: 12/22/23 13:34 Analyzed: 12/23/23 17:37									
QC Source Sample: GS-121323-09 (A3L1275-02RE2)												
EPA 8260D												
Benzene	8640	20.0	40.0	ug/L	200	4000	4580	102	79-120%	0.5	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 89 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		94 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****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 23L1017 - EPA 5030C						Water						
Blank (23L1017-BLK1)			Prepared: 12/27/23 14:00		Analyzed: 12/27/23 16:57							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L1017 - EPA 5030C						Water						
Blank (23L1017-BLK1)						Prepared: 12/27/23 14:00 Analyzed: 12/27/23 16:57						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	10.0	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 107 % Limits: 80-120 % Dilution: 1x												

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

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Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L1017 - EPA 5030C						Water						
Blank (23L1017-BLK1)			Prepared: 12/27/23 14:00		Analyzed: 12/27/23 16:57							
Surr: Toluene-d8 (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
LCS (23L1017-BS1)			Prepared: 12/27/23 14:00		Analyzed: 12/27/23 16:01							
EPA 8260D												
Acetone	47.8	10.0	20.0	ug/L	1	40.0	---	120	80-120%	---	---	Q-55
Acrylonitrile	15.2	2.00	2.00	ug/L	1	20.0	---	76	80-120%	---	---	
Benzene	21.6	0.100	0.200	ug/L	1	20.0	---	108	80-120%	---	---	
Bromobenzene	20.1	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Bromochloromethane	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Bromodichloromethane	24.0	0.500	1.00	ug/L	1	20.0	---	120	80-120%	---	---	Q-56
Bromoform	25.5	0.500	1.00	ug/L	1	20.0	---	128	80-120%	---	---	
Bromomethane	24.6	5.00	5.00	ug/L	1	20.0	---	123	80-120%	---	---	
2-Butanone (MEK)	35.7	5.00	10.0	ug/L	1	40.0	---	89	80-120%	---	---	Q-56
n-Butylbenzene	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
sec-Butylbenzene	22.5	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
tert-Butylbenzene	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Carbon disulfide	25.0	5.00	10.0	ug/L	1	20.0	---	125	80-120%	---	---	
Carbon tetrachloride	27.7	0.500	1.00	ug/L	1	20.0	---	138	80-120%	---	---	Q-56
Chlorobenzene	22.6	0.250	0.500	ug/L	1	20.0	---	113	80-120%	---	---	Q-56
Chloroethane	25.9	5.00	5.00	ug/L	1	20.0	---	129	80-120%	---	---	
Chloroform	25.3	0.500	1.00	ug/L	1	20.0	---	127	80-120%	---	---	
Chloromethane	20.2	2.50	5.00	ug/L	1	20.0	---	101	80-120%	---	---	Q-56
2-Chlorotoluene	19.7	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
4-Chlorotoluene	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Dibromochloromethane	22.9	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	Q-56
1,2-Dibromo-3-chloropropane	16.7	2.50	5.00	ug/L	1	20.0	---	84	80-120%	---	---	
1,2-Dibromoethane (EDB)	21.3	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Dibromomethane	23.6	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	Q-56
1,2-Dichlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichlorobenzene	22.6	0.250	0.500	ug/L	1	20.0	---	113	80-120%	---	---	
1,4-Dichlorobenzene	21.5	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	Q-56
Dichlorodifluoromethane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,1-Dichloroethane	16.8	0.200	0.400	ug/L	1	20.0	---	84	80-120%	---	---	

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Darwin Thomas, Business Development Director

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ORELAP ID: OR100062

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Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L1017 - EPA 5030C						Water						
LCS (23L1017-BS1)						Prepared: 12/27/23 14:00 Analyzed: 12/27/23 16:01						
1,2-Dichloroethane (EDC)	23.7	0.200	0.400	ug/L	1	20.0	---	119	80-120%	---	---	
1,1-Dichloroethene	27.4	0.200	0.400	ug/L	1	20.0	---	137	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	19.3	0.200	0.400	ug/L	1	20.0	---	97	80-120%	---	---	
trans-1,2-Dichloroethene	26.2	0.200	0.400	ug/L	1	20.0	---	131	80-120%	---	---	Q-56
1,2-Dichloropropane	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,3-Dichloropropane	19.3	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
2,2-Dichloropropane	26.5	0.500	1.00	ug/L	1	20.0	---	132	80-120%	---	---	Q-56
1,1-Dichloropropene	20.7	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
cis-1,3-Dichloropropene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
trans-1,3-Dichloropropene	22.7	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Ethylbenzene	22.1	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Hexachlorobutadiene	21.2	2.50	5.00	ug/L	1	20.0	---	106	80-120%	---	---	
2-Hexanone	28.5	10.0	10.0	ug/L	1	40.0	---	71	80-120%	---	---	Q-55
Isopropylbenzene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Isopropyltoluene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Methylene chloride	26.9	5.00	10.0	ug/L	1	20.0	---	134	80-120%	---	---	Q-56
4-Methyl-2-pentanone (MiBK)	32.2	5.00	10.0	ug/L	1	40.0	---	80	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Naphthalene	12.5	5.00	5.00	ug/L	1	20.0	---	62	80-120%	---	---	Q-55
n-Propylbenzene	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Styrene	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,1,1,2-Tetrachloroethane	23.6	0.200	0.400	ug/L	1	20.0	---	118	80-120%	---	---	
1,1,2,2-Tetrachloroethane	22.0	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Tetrachloroethene (PCE)	22.9	0.200	0.400	ug/L	1	20.0	---	115	80-120%	---	---	
Toluene	21.5	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,2,3-Trichlorobenzene	18.7	1.00	2.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2,4-Trichlorobenzene	16.1	1.00	2.00	ug/L	1	20.0	---	80	80-120%	---	---	
1,1,1-Trichloroethane	26.1	0.200	0.400	ug/L	1	20.0	---	130	80-120%	---	---	Q-56
1,1,2-Trichloroethane	23.6	0.250	0.500	ug/L	1	20.0	---	118	80-120%	---	---	
Trichloroethene (TCE)	20.3	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
Trichlorofluoromethane	31.5	1.00	2.00	ug/L	1	20.0	---	157	80-120%	---	---	Q-56
1,2,3-Trichloropropane	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
1,2,4-Trimethylbenzene	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,3,5-Trimethylbenzene	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	

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A3L1275 - 03 06 24 0857

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 23L1017 - EPA 5030C												
Water												
LCS (23L1017-BS1)			Prepared: 12/27/23 14:00		Analyzed: 12/27/23 16:01							
Vinyl chloride	21.5	0.100	0.200	ug/L	1	20.0	---	108	80-120%	---	---	Q-56
m,p-Xylene	48.9	0.500	1.00	ug/L	1	40.0	---	122	80-120%	---	---	
o-Xylene	17.8	0.250	0.500	ug/L	1	20.0	---	89	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		87 %		80-120 %		"						
Duplicate (23L1017-DUP1)												
Prepared: 12/27/23 14:00 Analyzed: 12/28/23 02:13												
TEMP												
QC Source Sample: Non-SDG (A3L1611-01)												
Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%	R-02
Acrylonitrile	ND	4.00	4.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	6.65	0.100	0.200	ug/L	1	---	6.75	---	---	1	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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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 23L1017 - EPA 5030C						Water						
Duplicate (23L1017-DUP1)			Prepared: 12/27/23 14:00		Analyzed: 12/28/23 02:13		TEMP					
QC Source Sample: Non-SDG (A3L1611-01)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	11.6	0.250	0.500	ug/L	1	---	11.7	---	---	0.4	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	10.0	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	0.710	0.250	0.500	ug/L	1	---	0.740	---	---	4	30%	
Styrene	0.840	0.500	1.00	ug/L	1	---	0.830	---	---	1	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	132	0.500	1.00	ug/L	1	---	131	---	---	0.8	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L1017 - EPA 5030C						Water						
Duplicate (23L1017-DUP1)				Prepared: 12/27/23 14:00		Analyzed: 12/28/23 02:13					TEMP	
QC Source Sample: Non-SDG (A3L1611-01)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	7.26	0.500	1.00	ug/L	1	---	7.48	---	---	3	30%	
1,3,5-Trimethylbenzene	4.45	0.500	1.00	ug/L	1	---	4.54	---	---	2	30%	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	75.7	0.500	1.00	ug/L	1	---	76.3	---	---	0.8	30%	Q-54h
o-Xylene	62.5	0.250	0.500	ug/L	1	---	62.5	---	---	0.03	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 107 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
Duplicate (23L1017-DUP2)				Prepared: 12/27/23 14:00		Analyzed: 12/27/23 23:57					V-13	
QC Source Sample: Non-SDG (A3L1552-01RE1)												
Acetone	ND	50.0	100	ug/L	5	---	ND	---	---	---	30%	
Acrylonitrile	ND	35.0	35.0	ug/L	5	---	ND	---	---	---	30%	R-02
Benzene	396	0.500	1.00	ug/L	5	---	398	---	---	0.6	30%	
Bromobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Bromochloromethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Bromoform	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Bromomethane	ND	25.0	25.0	ug/L	5	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Carbon disulfide	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Chlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Chloroethane	ND	25.0	25.0	ug/L	5	---	ND	---	---	---	30%	
Chloroform	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Chloromethane	ND	12.5	25.0	ug/L	5	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L1017 - EPA 5030C						Water						
Duplicate (23L1017-DUP2)			Prepared: 12/27/23 14:00		Analyzed: 12/27/23 23:57		V-13					
QC Source Sample: Non-SDG (A3L1552-01RE1)												
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Dibromomethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Ethylbenzene	61.4	1.25	2.50	ug/L	5	---	61.9	---	---	0.7	30%	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	---	ND	---	---	---	30%	
2-Hexanone	ND	50.0	50.0	ug/L	5	---	ND	---	---	---	30%	
Isopropylbenzene	3.90	2.50	5.00	ug/L	5	---	3.65	---	---	7	30%	J
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Methylene chloride	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	33.4	2.50	5.00	ug/L	5	---	32.8	---	---	2	30%	
Naphthalene	29.9	25.0	25.0	ug/L	5	---	28.8	---	---	4	30%	Q-54t
n-Propylbenzene	9.55	1.25	2.50	ug/L	5	---	9.60	---	---	0.5	30%	
Styrene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L1017 - EPA 5030C						Water						
Duplicate (23L1017-DUP2)			Prepared: 12/27/23 14:00		Analyzed: 12/27/23 23:57		V-13					
QC Source Sample: Non-SDG (A3L1552-01RE1)												
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
Toluene	6.45	2.50	5.00	ug/L	5	---	6.25	---	---	3	30%	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	207	2.50	5.00	ug/L	5	---	208	---	---	0.1	30%	
1,3,5-Trimethylbenzene	31.6	2.50	5.00	ug/L	5	---	30.0	---	---	5	30%	
Vinyl chloride	ND	0.500	1.00	ug/L	5	---	ND	---	---	---	30%	
m,p-Xylene	127	2.50	5.00	ug/L	5	---	127	---	---	0.5	30%	Q-54h
o-Xylene	7.40	1.25	2.50	ug/L	5	---	7.20	---	---	3	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		85 %		80-120 %		"						

Matrix Spike (23L1017-MS1)

Prepared: 12/27/23 14:00 Analyzed: 12/28/23 01:05

QC Source Sample: Non-SDG (A3L1565-10RE1)

EPA 8260D

Acetone	57.1	10.0	20.0	ug/L	1	40.0	ND	143	39-160%	---	---	
Acrylonitrile	23.3	2.00	2.00	ug/L	1	20.0	ND	117	63-135%	---	---	Q-54v
Benzene	23.8	0.100	0.200	ug/L	1	20.0	ND	115	79-120%	---	---	
Bromobenzene	20.3	0.250	0.500	ug/L	1	20.0	ND	102	80-120%	---	---	
Bromochloromethane	22.2	0.500	1.00	ug/L	1	20.0	ND	111	78-123%	---	---	
Bromodichloromethane	23.9	0.500	1.00	ug/L	1	20.0	ND	120	79-125%	---	---	
Bromoform	25.1	0.500	1.00	ug/L	1	20.0	ND	125	66-130%	---	---	Q-54p
Bromomethane	25.2	5.00	5.00	ug/L	1	20.0	ND	126	53-141%	---	---	Q-54j
2-Butanone (MEK)	42.8	5.00	10.0	ug/L	1	40.0	ND	107	56-143%	---	---	
n-Butylbenzene	24.8	0.500	1.00	ug/L	1	20.0	ND	124	75-128%	---	---	
sec-Butylbenzene	26.1	0.500	1.00	ug/L	1	20.0	0.780	126	77-126%	---	---	
tert-Butylbenzene	21.0	0.500	1.00	ug/L	1	20.0	ND	105	78-124%	---	---	

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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 23L1017 - EPA 5030C						Water						
Matrix Spike (23L1017-MS1)			Prepared: 12/27/23 14:00			Analyzed: 12/28/23 01:05						
QC Source Sample: Non-SDG (A3L1565-10RE1)												
Carbon disulfide	26.6	5.00	10.0	ug/L	1	20.0	ND	133	64-133%	---	---	Q-54m
Carbon tetrachloride	28.5	0.500	1.00	ug/L	1	20.0	ND	142	72-136%	---	---	Q-54f
Chlorobenzene	22.7	0.250	0.500	ug/L	1	20.0	ND	113	80-120%	---	---	
Chloroethane	26.7	5.00	5.00	ug/L	1	20.0	ND	134	60-138%	---	---	Q-54q
Chloroform	25.2	0.500	1.00	ug/L	1	20.0	ND	126	79-124%	---	---	Q-54o
Chloromethane	20.5	2.50	5.00	ug/L	1	20.0	ND	102	50-139%	---	---	
2-Chlorotoluene	20.3	0.500	1.00	ug/L	1	20.0	ND	101	79-122%	---	---	
4-Chlorotoluene	21.2	0.500	1.00	ug/L	1	20.0	ND	106	78-122%	---	---	
Dibromochloromethane	22.6	0.500	1.00	ug/L	1	20.0	ND	113	74-126%	---	---	
1,2-Dibromo-3-chloropropane	20.1	2.50	5.00	ug/L	1	20.0	ND	101	62-128%	---	---	
1,2-Dibromoethane (EDB)	21.9	0.250	0.500	ug/L	1	20.0	ND	110	77-121%	---	---	
Dibromomethane	24.2	0.500	1.00	ug/L	1	20.0	ND	121	79-123%	---	---	
1,2-Dichlorobenzene	21.7	0.250	0.500	ug/L	1	20.0	ND	108	80-120%	---	---	
1,3-Dichlorobenzene	22.6	0.250	0.500	ug/L	1	20.0	ND	113	80-120%	---	---	
1,4-Dichlorobenzene	21.4	0.250	0.500	ug/L	1	20.0	ND	107	79-120%	---	---	
Dichlorodifluoromethane	21.5	0.500	1.00	ug/L	1	20.0	ND	107	32-152%	---	---	
1,1-Dichloroethane	23.8	0.200	0.400	ug/L	1	20.0	ND	119	77-125%	---	---	
1,2-Dichloroethane (EDC)	23.9	0.200	0.400	ug/L	1	20.0	ND	120	73-128%	---	---	
1,1-Dichloroethene	29.4	0.200	0.400	ug/L	1	20.0	ND	147	71-131%	---	---	Q-54e
cis-1,2-Dichloroethene	20.0	0.200	0.400	ug/L	1	20.0	ND	100	78-123%	---	---	
trans-1,2-Dichloroethene	26.3	0.200	0.400	ug/L	1	20.0	ND	132	75-124%	---	---	Q-54b
1,2-Dichloropropane	21.1	0.250	0.500	ug/L	1	20.0	ND	106	78-122%	---	---	
1,3-Dichloropropane	20.1	0.500	1.00	ug/L	1	20.0	ND	101	80-120%	---	---	
2,2-Dichloropropane	23.3	0.500	1.00	ug/L	1	20.0	ND	116	60-139%	---	---	Q-54c
1,1-Dichloropropene	23.8	0.500	1.00	ug/L	1	20.0	ND	119	79-125%	---	---	
cis-1,3-Dichloropropene	15.2	0.500	1.00	ug/L	1	20.0	ND	76	75-124%	---	---	
trans-1,3-Dichloropropene	22.3	0.500	1.00	ug/L	1	20.0	ND	112	73-127%	---	---	
Ethylbenzene	22.9	0.250	0.500	ug/L	1	20.0	0.270	113	79-121%	---	---	
Hexachlorobutadiene	24.4	2.50	5.00	ug/L	1	20.0	ND	122	66-134%	---	---	
2-Hexanone	33.2	10.0	10.0	ug/L	1	40.0	ND	83	57-139%	---	---	Q-54x
Isopropylbenzene	25.0	0.500	1.00	ug/L	1	20.0	0.850	121	72-131%	---	---	
4-Isopropyltoluene	21.8	0.500	1.00	ug/L	1	20.0	ND	109	77-127%	---	---	
Methylene chloride	26.5	5.00	10.0	ug/L	1	20.0	ND	132	74-124%	---	---	Q-54d

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L1017 - EPA 5030C						Water						
Matrix Spike (23L1017-MS1)			Prepared: 12/27/23 14:00		Analyzed: 12/28/23 01:05							
QC Source Sample: Non-SDG (A3L1565-10RE1)												
4-Methyl-2-pentanone (MiBK)	36.3	5.00	10.0	ug/L	1	40.0	ND	91	67-130%	---	---	Q-54t
Methyl tert-butyl ether (MTBE)	23.6	0.500	1.00	ug/L	1	20.0	ND	118	71-124%	---	---	
Naphthalene	23.2	5.00	5.00	ug/L	1	20.0	ND	116	61-128%	---	---	
n-Propylbenzene	24.4	0.250	0.500	ug/L	1	20.0	1.75	113	76-126%	---	---	
Styrene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	78-123%	---	---	Q-54a
1,1,1,2-Tetrachloroethane	23.1	0.200	0.400	ug/L	1	20.0	ND	116	78-124%	---	---	
1,1,2,2-Tetrachloroethane	22.7	0.250	0.500	ug/L	1	20.0	ND	114	71-121%	---	---	
Tetrachloroethene (PCE)	24.1	0.200	0.400	ug/L	1	20.0	ND	120	74-129%	---	---	
Toluene	21.8	0.500	1.00	ug/L	1	20.0	ND	109	80-121%	---	---	Q-54k
1,2,3-Trichlorobenzene	23.6	1.00	2.00	ug/L	1	20.0	ND	118	69-129%	---	---	
1,2,4-Trichlorobenzene	25.4	1.00	2.00	ug/L	1	20.0	ND	127	69-130%	---	---	
1,1,1-Trichloroethane	26.6	0.200	0.400	ug/L	1	20.0	ND	133	74-131%	---	---	
1,1,2-Trichloroethane	23.5	0.250	0.500	ug/L	1	20.0	ND	118	80-120%	---	---	Q-54h
Trichloroethene (TCE)	22.2	0.200	0.400	ug/L	1	20.0	ND	111	79-123%	---	---	
Trichlorofluoromethane	33.8	1.00	2.00	ug/L	1	20.0	ND	169	65-141%	---	---	
1,2,3-Trichloropropane	23.1	0.500	1.00	ug/L	1	20.0	ND	115	73-122%	---	---	
1,2,4-Trimethylbenzene	23.3	0.500	1.00	ug/L	1	20.0	ND	117	76-124%	---	---	Q-54h
1,3,5-Trimethylbenzene	23.1	0.500	1.00	ug/L	1	20.0	ND	116	75-124%	---	---	
Vinyl chloride	23.2	0.100	0.200	ug/L	1	20.0	ND	116	58-137%	---	---	
m,p-Xylene	50.1	0.500	1.00	ug/L	1	40.0	ND	125	80-121%	---	---	
o-Xylene	19.1	0.250	0.500	ug/L	1	20.0	ND	96	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		92 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		88 %		80-120 %		"						

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0646 - EPA 3511 (Bottle Extraction)						Water						
Blank (23L0646-BLK1)			Prepared: 12/18/23 07:53		Analyzed: 12/18/23 12:22							
EPA 8270E LVI												
Acenaphthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(b+j)fluoranthene(s)	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	0.00800	0.0160	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	0.0320	0.0640	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	0.0160	0.0320	ug/L	1	---	---	---	---	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 112 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		118 %		80-132 %		"						

LCS (23L0646-BS1)

Prepared: 12/18/23 07:53 Analyzed: 12/18/23 12:54

EPA 8270E LVI

Acenaphthene	1.49	0.0160	0.0320	ug/L	1	1.60	---	93	80-120%	---	---
Acenaphthylene	1.59	0.0160	0.0320	ug/L	1	1.60	---	99	80-124%	---	---
Anthracene	1.53	0.0160	0.0320	ug/L	1	1.60	---	96	80-123%	---	---
Benz(a)anthracene	1.57	0.00800	0.0160	ug/L	1	1.60	---	98	80-122%	---	---
Benzo(a)pyrene	1.73	0.00800	0.0160	ug/L	1	1.60	---	108	80-129%	---	---
Benzo(b+j)fluoranthene(s)	1.63	0.00800	0.0160	ug/L	1	1.60	---	102	80-124%	---	---
Benzo(k)fluoranthene	1.65	0.00800	0.0160	ug/L	1	1.60	---	103	80-125%	---	---
Benzo(g,h,i)perylene	1.55	0.0160	0.0320	ug/L	1	1.60	---	97	80-120%	---	---

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Darwin Thomas, Business Development Director



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503-718-2323

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0646 - EPA 3511 (Bottle Extraction)						Water						
LCS (23L0646-BS1)						Prepared: 12/18/23 07:53 Analyzed: 12/18/23 12:54						
Chrysene	1.55	0.00800	0.0160	ug/L	1	1.60	---	97	80-120%	---	---	
Dibenz(a,h)anthracene	1.54	0.00800	0.0160	ug/L	1	1.60	---	96	80-120%	---	---	
Fluoranthene	1.74	0.0160	0.0320	ug/L	1	1.60	---	109	80-126%	---	---	
Fluorene	1.49	0.0160	0.0320	ug/L	1	1.60	---	93	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.46	0.00800	0.0160	ug/L	1	1.60	---	91	80-121%	---	---	
1-Methylnaphthalene	1.37	0.0320	0.0640	ug/L	1	1.60	---	86	53-148%	---	---	
2-Methylnaphthalene	1.28	0.0320	0.0640	ug/L	1	1.60	---	80	48-150%	---	---	
Naphthalene	1.48	0.0320	0.0640	ug/L	1	1.60	---	93	78-120%	---	---	
Phenanthrene	1.47	0.0320	0.0640	ug/L	1	1.60	---	92	80-120%	---	---	
Pyrene	1.76	0.0160	0.0320	ug/L	1	1.60	---	110	80-125%	---	---	
Carbazole	1.61	0.0160	0.0320	ug/L	1	1.60	---	101	65-141%	---	---	
Dibenzofuran	1.43	0.0160	0.0320	ug/L	1	1.60	---	89	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 111 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		118 %		80-132 %		"						

Matrix Spike (23L0646-MS1)

Prepared: 12/18/23 07:53 Analyzed: 12/18/23 13:59

QC Source Sample: GS-121323-09 (A3L1275-02)

EPA 8270E LVI

Acenaphthene	14.4	0.325	0.651	ug/L	20	1.63	6.95	456	80-120%	---	---	Q-02
Acenaphthylene	2.47	1.22	1.22	ug/L	20	1.63	ND	152	80-124%	---	---	Q-02
Anthracene	2.91	0.325	0.651	ug/L	20	1.63	1.63	79	80-123%	---	---	Q-01
Benz(a)anthracene	1.46	0.163	0.325	ug/L	20	1.63	ND	89	80-122%	---	---	
Benzo(a)pyrene	1.38	0.163	0.325	ug/L	20	1.63	ND	85	80-129%	---	---	
Benzo(b+j)fluoranthene(s)	1.41	0.163	0.325	ug/L	20	1.63	ND	86	80-124%	---	---	
Benzo(k)fluoranthene	1.39	0.163	0.325	ug/L	20	1.63	ND	85	80-125%	---	---	
Benzo(g,h,i)perylene	1.68	0.325	0.651	ug/L	20	1.63	0.365	81	80-120%	---	---	
Chrysene	1.55	0.163	0.325	ug/L	20	1.63	ND	95	80-120%	---	---	
Dibenz(a,h)anthracene	1.42	0.163	0.325	ug/L	20	1.63	ND	88	80-120%	---	---	
Fluoranthene	2.83	0.325	0.651	ug/L	20	1.63	1.26	97	80-126%	---	---	
Fluorene	3.87	0.325	0.651	ug/L	20	1.63	2.79	66	77-127%	---	---	Q-03
Indeno(1,2,3-cd)pyrene	1.54	0.163	0.325	ug/L	20	1.63	0.274	78	80-121%	---	---	Q-01
1-Methylnaphthalene	7.99	0.651	1.30	ug/L	20	1.63	6.82	72	53-148%	---	---	
2-Methylnaphthalene	4.33	0.651	1.30	ug/L	20	1.63	3.08	77	48-150%	---	---	
Naphthalene	129	0.651	1.30	ug/L	20	1.63	84.5	2760	78-120%	---	---	Q-03

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0646 - EPA 3511 (Bottle Extraction)							Water					
Matrix Spike (23L0646-MS1)			Prepared: 12/18/23 07:53		Analyzed: 12/18/23 13:59							
QC Source Sample: GS-121323-09 (A3L1275-02)												
Phenanthrene	6.00	0.651	1.30	ug/L	20	1.63	4.47	94	80-120%	---	---	
Pyrene	2.81	0.325	0.651	ug/L	20	1.63	1.26	96	80-125%	---	---	
Carbazole	10.4	0.325	0.651	ug/L	20	1.63	9.49	55	65-141%	---	---	Q-03
Dibenzofuran	2.51	0.325	0.651	ug/L	20	1.63	1.33	73	76-121%	---	---	Q-01
Surr: Acenaphthylene-d8 (Surr)		Recovery: 80 %		Limits: 78-134 %		Dilution: 20x		S-05				
Benzo(a)pyrene-d12 (Surr)		90 %		80-132 %		"		S-05				

Matrix Spike Dup (23L0646-MSD1)

Prepared: 12/18/23 07:53 Analyzed: 12/18/23 14:31

QC Source Sample: GS-121323-09 (A3L1275-02)

EPA 8270E LVI

Acenaphthene	15.3	0.321	0.641	ug/L	20	1.60	6.95	523	80-120%	6	30%	Q-02
Acenaphthylene	2.57	1.20	1.20	ug/L	20	1.60	ND	160	80-124%	4	30%	Q-02
Anthracene	2.97	0.321	0.641	ug/L	20	1.60	1.63	84	80-123%	2	30%	
Benz(a)anthracene	1.48	0.160	0.321	ug/L	20	1.60	ND	93	80-122%	2	30%	
Benzo(a)pyrene	1.40	0.160	0.321	ug/L	20	1.60	ND	88	80-129%	1	30%	
Benzo(b+j)fluoranthene(s)	1.43	0.160	0.321	ug/L	20	1.60	ND	90	80-124%	2	30%	
Benzo(k)fluoranthene	1.31	0.160	0.321	ug/L	20	1.60	ND	82	80-125%	6	30%	
Benzo(g,h,i)perylene	1.64	0.321	0.641	ug/L	20	1.60	0.365	79	80-120%	2	30%	Q-01
Chrysene	1.56	0.160	0.321	ug/L	20	1.60	ND	98	80-120%	0.6	30%	
Dibenz(a,h)anthracene	1.45	0.160	0.321	ug/L	20	1.60	ND	91	80-120%	2	30%	
Fluoranthene	2.94	0.321	0.641	ug/L	20	1.60	1.26	105	80-126%	4	30%	
Fluorene	4.37	0.321	0.641	ug/L	20	1.60	2.79	98	77-127%	12	30%	
Indeno(1,2,3-cd)pyrene	1.56	0.160	0.321	ug/L	20	1.60	0.274	80	80-121%	2	30%	
1-Methylnaphthalene	8.77	0.641	1.28	ug/L	20	1.60	6.82	121	53-148%	9	30%	
2-Methylnaphthalene	4.70	0.641	1.28	ug/L	20	1.60	3.08	101	48-150%	8	30%	
Naphthalene	138	0.641	1.28	ug/L	20	1.60	84.5	3340	78-120%	6	30%	Q-03
Phenanthrene	6.16	0.641	1.28	ug/L	20	1.60	4.47	106	80-120%	3	30%	
Pyrene	2.97	0.321	0.641	ug/L	20	1.60	1.26	107	80-125%	6	30%	
Carbazole	12.0	0.321	0.641	ug/L	20	1.60	9.49	153	65-141%	14	30%	Q-03
Dibenzofuran	2.61	0.321	0.641	ug/L	20	1.60	1.33	80	76-121%	4	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 88 %		Limits: 78-134 %		Dilution: 20x		S-05				
Benzo(a)pyrene-d12 (Surr)		95 %		80-132 %		"		S-05				

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L1103 - EPA 3015A						Water						
Blank (23L1103-BLK1)				Prepared: 12/29/23 11:00		Analyzed: 12/29/23 20:38						
EPA 6020B												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.110	0.200	ug/L	1	---	---	---	---	---	---	
Manganese	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Vanadium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
Blank (23L1103-BLK2)				Prepared: 12/29/23 11:00		Analyzed: 01/02/24 19:46						
EPA 6020B												
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-16
LCS (23L1103-BS1)				Prepared: 12/29/23 11:00		Analyzed: 12/29/23 20:43						
EPA 6020B												
Aluminum	2770	25.0	50.0	ug/L	1	2780	---	100	80-120%	---	---	
Antimony	28.0	1.00	2.00	ug/L	1	27.8	---	101	80-120%	---	---	
Arsenic	55.7	0.500	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Barium	54.7	1.00	2.00	ug/L	1	55.6	---	99	80-120%	---	---	
Beryllium	27.0	0.100	0.200	ug/L	1	27.8	---	97	80-120%	---	---	
Cadmium	53.1	0.100	0.200	ug/L	1	55.6	---	96	80-120%	---	---	
Chromium	52.8	1.00	2.00	ug/L	1	55.6	---	95	80-120%	---	---	
Copper	55.0	1.00	2.00	ug/L	1	55.6	---	99	80-120%	---	---	
Iron	2510	25.0	50.0	ug/L	1	2780	---	90	80-120%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L1103 - EPA 3015A						Water						
LCS (23L1103-BS1)						Prepared: 12/29/23 11:00 Analyzed: 12/29/23 20:43						
Lead	54.5	0.110	0.200	ug/L	1	55.6	---	98	80-120%	---	---	
Manganese	53.2	0.500	1.00	ug/L	1	55.6	---	96	80-120%	---	---	
Mercury	1.15	0.0400	0.0800	ug/L	1	1.11	---	103	80-120%	---	---	
Nickel	55.2	1.00	2.00	ug/L	1	55.6	---	99	80-120%	---	---	
Selenium	26.5	0.500	1.00	ug/L	1	27.8	---	95	80-120%	---	---	
Silver	30.0	0.100	0.200	ug/L	1	27.8	---	108	80-120%	---	---	
Thallium	27.5	0.100	0.200	ug/L	1	27.8	---	99	80-120%	---	---	
Vanadium	52.9	1.00	2.00	ug/L	1	55.6	---	95	80-120%	---	---	
Zinc	55.4	2.00	4.00	ug/L	1	55.6	---	100	80-120%	---	---	

Duplicate (23L1103-DUP1)

Prepared: 12/29/23 11:00 Analyzed: 12/29/23 21:05

QC Source Sample: Non-SDG (A3L1216-01)

Aluminum	ND	25.0	50.0	ug/L	1	---	ND	---	---	---	20%	
Antimony	18.3	1.00	2.00	ug/L	1	---	18.1	---	---	0.6	20%	
Arsenic	188	0.500	1.00	ug/L	1	---	186	---	---	0.7	20%	
Barium	355	1.00	2.00	ug/L	1	---	358	---	---	0.9	20%	
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Chromium	1.13	1.00	2.00	ug/L	1	---	1.18	---	---	4	20%	J
Copper	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Iron	25200	25.0	50.0	ug/L	1	---	25000	---	---	0.8	20%	
Lead	2.17	0.110	0.200	ug/L	1	---	2.22	---	---	2	20%	
Manganese	1350	0.500	1.00	ug/L	1	---	1340	---	---	0.7	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	11.2	1.00	2.00	ug/L	1	---	10.9	---	---	3	20%	
Selenium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Thallium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Vanadium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Zinc	109	2.00	4.00	ug/L	1	---	108	---	---	1	20%	

Matrix Spike (23L1103-MS2)

Prepared: 12/29/23 11:00 Analyzed: 01/02/24 20:39

QC Source Sample: GS-121323-09 (A3L1275-02RE1)

EPA 6020B

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L1103 - EPA 3015A Water												
Matrix Spike (23L1103-MS2) Prepared: 12/29/23 11:00 Analyzed: 01/02/24 20:39												
QC Source Sample: GS-121323-09 (A3L1275-02RE1)												
Aluminum	2840	25.0	50.0	ug/L	1	2780	ND	102	75-125%	---	---	Q-16
Antimony	29.0	0.500	1.00	ug/L	1	27.8	ND	104	75-125%	---	---	Q-16
Arsenic	54.9	0.500	1.00	ug/L	1	55.6	ND	99	75-125%	---	---	Q-16
Barium	68.7	1.00	2.00	ug/L	1	55.6	13.4	99	75-125%	---	---	Q-16
Beryllium	28.6	0.100	0.200	ug/L	1	27.8	ND	103	75-125%	---	---	Q-16
Cadmium	54.9	0.100	0.200	ug/L	1	55.6	ND	99	75-125%	---	---	Q-16
Chromium	53.1	1.00	2.00	ug/L	1	55.6	ND	96	75-125%	---	---	Q-16
Copper	57.2	1.00	2.00	ug/L	1	55.6	1.01	101	75-125%	---	---	Q-16
Iron	7170	25.0	50.0	ug/L	1	2780	4700	89	75-125%	---	---	Q-16
Manganese	559	0.500	1.00	ug/L	1	55.6	512	84	75-125%	---	---	Q-16
Mercury	1.14	0.0400	0.0800	ug/L	1	1.11	ND	102	75-125%	---	---	Q-16
Selenium	26.7	0.500	1.00	ug/L	1	27.8	ND	96	75-125%	---	---	Q-16
Thallium	28.0	0.100	0.200	ug/L	1	27.8	ND	101	75-125%	---	---	Q-16
Vanadium	53.9	1.00	2.00	ug/L	1	55.6	1.13	95	75-125%	---	---	Q-16
Zinc	56.5	2.00	4.00	ug/L	1	55.6	ND	102	75-125%	---	---	Q-16

Matrix Spike (23L1103-MS3) Prepared: 12/29/23 11:00 Analyzed: 01/03/24 21:38

QC Source Sample: GS-121323-09 (A3L1275-02RE2)

EPA 6020B

Lead	54.8	0.110	0.200	ug/L	1	55.6	ND	99	75-125%	---	---	Q-16
Nickel	62.7	1.00	2.00	ug/L	1	55.6	7.63	99	75-125%	---	---	Q-16
Silver	29.8	0.100	0.200	ug/L	1	27.8	ND	107	75-125%	---	---	Q-16, Q-41

Matrix Spike Dup (23L1103-MSD2) Prepared: 12/29/23 11:00 Analyzed: 01/02/24 20:44

QC Source Sample: GS-121323-09 (A3L1275-02RE1)

EPA 6020B

Aluminum	2880	25.0	50.0	ug/L	1	2780	ND	104	75-125%	1	20%	Q-16
Antimony	29.4	0.500	1.00	ug/L	1	27.8	ND	106	75-125%	1	20%	Q-16
Arsenic	55.9	0.500	1.00	ug/L	1	55.6	ND	101	75-125%	2	20%	Q-16
Barium	70.1	1.00	2.00	ug/L	1	55.6	13.4	102	75-125%	2	20%	Q-16
Beryllium	28.8	0.100	0.200	ug/L	1	27.8	ND	104	75-125%	0.7	20%	Q-16
Cadmium	55.7	0.100	0.200	ug/L	1	55.6	ND	100	75-125%	2	20%	Q-16

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

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 23L1103 - EPA 3015A						Water						
Matrix Spike Dup (23L1103-MSD2)				Prepared: 12/29/23 11:00		Analyzed: 01/02/24 20:44						
QC Source Sample: GS-121323-09 (A3L1275-02RE1)												
Chromium	54.3	1.00	2.00	ug/L	1	55.6	ND	98	75-125%	2	20%	Q-16
Copper	58.8	1.00	2.00	ug/L	1	55.6	1.01	104	75-125%	3	20%	Q-16
Iron	7300	25.0	50.0	ug/L	1	2780	4700	93	75-125%	2	20%	Q-16
Manganese	567	0.500	1.00	ug/L	1	55.6	512	98	75-125%	1	20%	Q-16
Mercury	1.17	0.0400	0.0800	ug/L	1	1.11	ND	105	75-125%	2	20%	Q-16
Selenium	27.7	0.500	1.00	ug/L	1	27.8	ND	100	75-125%	4	20%	Q-16
Thallium	28.8	0.100	0.200	ug/L	1	27.8	ND	104	75-125%	3	20%	Q-16
Vanadium	55.3	1.00	2.00	ug/L	1	55.6	1.13	97	75-125%	2	20%	Q-16
Zinc	58.0	2.00	4.00	ug/L	1	55.6	ND	104	75-125%	3	20%	Q-16
Matrix Spike Dup (23L1103-MSD3)				Prepared: 12/29/23 11:00		Analyzed: 01/03/24 21:43						
QC Source Sample: GS-121323-09 (A3L1275-02RE2)												
EPA 6020B												
Lead	55.8	0.110	0.200	ug/L	1	55.6	ND	100	75-125%	2	20%	Q-16
Nickel	65.7	1.00	2.00	ug/L	1	55.6	7.63	105	75-125%	5	20%	Q-16
Silver	31.5	0.100	0.200	ug/L	1	27.8	ND	113	75-125%	6	20%	Q-16, Q-41

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Cyanide by Flow Analysis (Aqueous)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0902 - Lachat Micro Dist - aqueous						Water						
Blank (23L0902-BLK1)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 12:56									
EPA 335.4												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23L0902-BS1)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 12:58									
EPA 335.4												
Total Cyanide	0.250	0.00500	0.00500	mg/L	1	0.250	---	100	90-110%	---	---	
Duplicate (23L0902-DUP1)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 13:10									
QC Source Sample: Non-SDG (A3L1208-03RE1)												
Total Cyanide	0.0463	0.00500	0.00500	mg/L	1	---	0.0469	---	---	1	10%	
Matrix Spike (23L0902-MS1)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 13:12									
QC Source Sample: Non-SDG (A3L1208-03RE1)												
EPA 335.4												
Total Cyanide	0.300	0.00500	0.00500	mg/L	1	0.250	0.0469	101	90-110%	---	---	
Matrix Spike (23L0902-MS2)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 13:36									
QC Source Sample: GS-121323-09 (A3L1275-02)												
EPA 335.4												
Total Cyanide	0.295	0.00500	0.00500	mg/L	1	0.250	0.0431	101	90-110%	---	---	
Matrix Spike Dup (23L0902-MSD2)			Prepared: 12/22/23 09:41 Analyzed: 12/22/23 13:38									
QC Source Sample: GS-121323-09 (A3L1275-02)												
EPA 335.4												
Total Cyanide	0.301	0.00500	0.00500	mg/L	1	0.250	0.0431	103	90-110%	2	10%	

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****QUALITY CONTROL (QC) SAMPLE RESULTS****Available Cyanide by FIA, Ligand Exchange and Amperometric Detection**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0690 - Method Prep: Aq						Water						
Blank (23L0690-BLK1)			Prepared: 12/18/23 15:08 Analyzed: 12/19/23 12:20									
<u>D6888-09</u>												
Available Cyanide	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
LCS (23L0690-BS1)			Prepared: 12/18/23 15:08 Analyzed: 12/19/23 12:22									
<u>D6888-09</u>												
Available Cyanide	0.0227	0.00100	0.00200	mg/L	1	0.0250	---	91	90-117%	---	---	
Matrix Spike (23L0690-MS1)			Prepared: 12/18/23 15:08 Analyzed: 12/19/23 12:29									
<u>QC Source Sample: GS-121323-09 (A3L1275-02)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0212	0.00101	0.00201	mg/L	1	0.0251	ND	84	82-130%	---	---	
Matrix Spike Dup (23L0690-MSD1)			Prepared: 12/18/23 15:08 Analyzed: 12/19/23 12:31									
<u>QC Source Sample: GS-121323-09 (A3L1275-02)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0224	0.00101	0.00201	mg/L	1	0.0251	ND	89	82-130%	6	11%	

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ANALYTICAL REPORT

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ORELAP ID: OR100062

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Project: Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3L1275 - 03 06 24 0857

QUALITY CONTROL (QC) SAMPLE RESULTS

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0709 - Microdiffusion						Water						
Blank (23L0709-BLK1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:29							
<u>D4282-02</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23L0709-BS1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:29							
<u>D4282-02</u>												
Free Cyanide	0.0645	0.00250	0.00500	mg/L	1	0.0667	---	97	74-120%	---	---	
LCS Dup (23L0709-BSD1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:35							
<u>D4282-02</u>												
Free Cyanide	0.0638	0.00250	0.00500	mg/L	1	0.0667	---	96	74-120%	1	20%	
Matrix Spike (23L0709-MS1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:53							
<u>QC Source Sample: GS-121323-09 (A3L1275-02)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0654	0.00250	0.00500	mg/L	1	0.0667	ND	98	74-120%	---	---	
Matrix Spike Dup (23L0709-MSD1)			Prepared: 12/19/23 09:49		Analyzed: 12/19/23 14:53							
<u>QC Source Sample: GS-121323-09 (A3L1275-02)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0645	0.00250	0.00500	mg/L	1	0.0667	ND	97	74-120%	1	20%	

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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****SAMPLE PREPARATION INFORMATION****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0980							
A3L1275-01	WG	NWTPH-Dx	12/13/23 09:40	12/27/23 06:02	1040mL/5mL	1000mL/5mL	0.96
A3L1275-02	WG	NWTPH-Dx	12/13/23 10:15	12/27/23 06:02	1010mL/5mL	1000mL/5mL	0.99
A3L1275-03	WG	NWTPH-Dx	12/13/23 11:00	12/27/23 06:02	1040mL/5mL	1000mL/5mL	0.96
A3L1275-04	WG	NWTPH-Dx	12/13/23 13:50	12/27/23 06:02	1010mL/5mL	1000mL/5mL	0.99
A3L1275-05	WG	NWTPH-Dx	12/13/23 15:00	12/27/23 06:02	910mL/5mL	1000mL/5mL	1.10

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

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0783							
A3L1275-03	WG	NWTPH-Gx (MS)	12/13/23 11:00	12/20/23 09:40	5mL/5mL	5mL/5mL	1.00
A3L1275-04	WG	NWTPH-Gx (MS)	12/13/23 13:50	12/20/23 09:40	5mL/5mL	5mL/5mL	1.00
Batch: 23L0845							
A3L1275-02RE1	WG	NWTPH-Gx (MS)	12/13/23 10:15	12/21/23 11:44	5mL/5mL	5mL/5mL	1.00
Batch: 23L0908							
A3L1275-05RE1	WG	NWTPH-Gx (MS)	12/13/23 15:00	12/22/23 10:35	5mL/5mL	5mL/5mL	1.00
Batch: 23L1017							
A3L1275-01RE1	WG	NWTPH-Gx (MS)	12/13/23 09:40	12/27/23 16:35	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0783							
A3L1275-02	WG	EPA 8260D	12/13/23 10:15	12/20/23 09:40	5mL/5mL	5mL/5mL	1.00
A3L1275-03	WG	EPA 8260D	12/13/23 11:00	12/20/23 09:40	5mL/5mL	5mL/5mL	1.00
A3L1275-04	WG	EPA 8260D	12/13/23 13:50	12/20/23 09:40	5mL/5mL	5mL/5mL	1.00
A3L1275-06	W	EPA 8260D	12/13/23 15:30	12/20/23 09:40	5mL/5mL	5mL/5mL	1.00
Batch: 23L0845							
A3L1275-02RE1	WG	EPA 8260D	12/13/23 10:15	12/21/23 11:44	5mL/5mL	5mL/5mL	1.00
Batch: 23L0908							
A3L1275-05RE1	WG	EPA 8260D	12/13/23 15:00	12/22/23 10:35	5mL/5mL	5mL/5mL	1.00
Batch: 23L0918							

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****SAMPLE PREPARATION INFORMATION****Volatile Organic Compounds by EPA 8260D****Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3L1275-02RE2	WG	EPA 8260D	12/13/23 10:15	12/22/23 13:34	5mL/5mL	5mL/5mL	1.00
Batch: 23L1017							
A3L1275-01RE1	WG	EPA 8260D	12/13/23 09:40	12/27/23 16:35	5mL/5mL	5mL/5mL	1.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (Large Volume Injection)**Prep: EPA 3511 (Bottle Extraction)**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0646							
A3L1275-01RE1	WG	EPA 8270E LVI	12/13/23 09:40	12/18/23 07:53	112.89mL/5mL	125mL/5mL	1.11
A3L1275-02	WG	EPA 8270E LVI	12/13/23 10:15	12/18/23 07:53	120.64mL/5mL	125mL/5mL	1.04
A3L1275-03	WG	EPA 8270E LVI	12/13/23 11:00	12/18/23 07:53	121.82mL/5mL	125mL/5mL	1.03
A3L1275-04	WG	EPA 8270E LVI	12/13/23 13:50	12/18/23 07:53	123mL/5mL	125mL/5mL	1.02
A3L1275-05RE1	WG	EPA 8270E LVI	12/13/23 15:00	12/18/23 07:53	89.97mL/5mL	125mL/5mL	1.39

Total Metals by EPA 6020B (ICPMS)**Prep: EPA 3015A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L1103							
A3L1275-01RE1	WG	EPA 6020B	12/13/23 09:40	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-01RE2	WG	EPA 6020B	12/13/23 09:40	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-01RE4	WG	EPA 6020B	12/13/23 09:40	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-02RE1	WG	EPA 6020B	12/13/23 10:15	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-02RE2	WG	EPA 6020B	12/13/23 10:15	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-03RE1	WG	EPA 6020B	12/13/23 11:00	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-03RE2	WG	EPA 6020B	12/13/23 11:00	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-03RE3	WG	EPA 6020B	12/13/23 11:00	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-04RE1	WG	EPA 6020B	12/13/23 13:50	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-04RE2	WG	EPA 6020B	12/13/23 13:50	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-05RE1	WG	EPA 6020B	12/13/23 15:00	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00
A3L1275-05RE2	WG	EPA 6020B	12/13/23 15:00	12/29/23 11:00	45mL/50mL	45mL/50mL	1.00

Total Cyanide by Flow Analysis (Aqueous)**Prep: Lachat Micro Dist - aqueous**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
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Apex Laboratories

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Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 4Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3L1275 - 03 06 24 0857****SAMPLE PREPARATION INFORMATION****Total Cyanide by Flow Analysis (Aqueous)****Prep: Lachat Micro Dist - aqueous**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0902							
A3L1275-01	WG	EPA 335.4	12/13/23 09:40	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1275-02	WG	EPA 335.4	12/13/23 10:15	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1275-03	WG	EPA 335.4	12/13/23 11:00	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1275-04	WG	EPA 335.4	12/13/23 13:50	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00
A3L1275-05	WG	EPA 335.4	12/13/23 15:00	12/22/23 09:41	6mL/6mL	6mL/6mL	1.00

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection**Prep: Method Prep: Ag**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0690							
A3L1275-01	WG	D6888-09	12/13/23 09:40	12/18/23 15:08	5mL/5mL	5mL/5mL	1.00
A3L1275-02	WG	D6888-09	12/13/23 10:15	12/18/23 15:08	5mL/5mL	5mL/5mL	1.00
A3L1275-03	WG	D6888-09	12/13/23 11:00	12/18/23 15:08	5mL/5mL	5mL/5mL	1.00
A3L1275-04	WG	D6888-09	12/13/23 13:50	12/18/23 15:08	5mL/5mL	5mL/5mL	1.00
A3L1275-05	WG	D6888-09	12/13/23 15:00	12/18/23 15:08	5mL/5mL	5mL/5mL	1.00

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry**Prep: Microdiffusion**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23L0709							
A3L1275-01	WG	D4282-02	12/13/23 09:40	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1275-02	WG	D4282-02	12/13/23 10:15	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1275-03	WG	D4282-02	12/13/23 11:00	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1275-04	WG	D4282-02	12/13/23 13:50	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00
A3L1275-05	WG	D4282-02	12/13/23 15:00	12/19/23 09:49	3mL/3mL	3mL/3mL	1.00

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Project Manager: **John Renda**

Report ID:

A3L1275 - 03 06 24 0857

QUALIFIER DEFINITIONS

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

Apex Laboratories

DCNT	Sample decanted due to the presence of sediment. Sample bottle not rinsed with solvent.
E	Estimated Value. The result is above the calibration range of the instrument.
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-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
M-02	Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-02	Spike recovery is outside of established control limits due to matrix interference.
Q-03	Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-16	Reanalysis of an original Batch QC sample.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
Q-54	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
Q-54a	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +10%. 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 +11%. 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 +12%. 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 +14%. 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 +17%. The results are reported as Estimated Values.
Q-54f	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +18%. 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 +19%. The results are reported as Estimated Values.

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A3L1275 - 03 06 24 0857

- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54i** 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-54j** 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-54k** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +37%. The results are reported as Estimated Values.
- Q-54l** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +4%. The results are reported as Estimated Values.
- Q-54m** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +5%. The results are reported as Estimated Values.
- Q-54n** 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-54o** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +7%. The results are reported as Estimated Values.
- Q-54p** 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-54q** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +9%. The results are reported as Estimated Values.
- Q-54r** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -14%. The results are reported as Estimated Values.
- Q-54s** 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-54t** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -18%. The results are reported as Estimated Values.
- Q-54u** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -2%. The results are reported as Estimated Values.
- Q-54v** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -4%. The results are reported as Estimated Values.
- Q-54w** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -7%. The results are reported as Estimated Values.
- Q-54x** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -9%. The results are reported as Estimated Values.
- Q-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-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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- TEMP** Sample was received outside of recommended temperature.
- V-13** Reporting levels raised due to dilution necessary for analysis due to sample foaming in sparge vessel.
- V-25** SIM Analysis was not performed due to the high analyte concentration in this sample.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ("-----"), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

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).

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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.

Benzofluoranthene Isomer Reporting:

Due to coelution on the analytical column, the Benzo(b)fluoranthene results represent the concentration of both Benzo(b)fluoranthene and Benzo(j) fluoranthene. Calibration is based on the response of Benzo(b)fluoranthene, and the results represent the combined Benzo(b+j)fluoranthene(s).

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
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All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

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APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A3 11275

Project/Project #: Gasco - MGP only Mon. Wells 4Q 2023 Perf. Mon 000029-02.84 T-01.001E

Delivery Info:

Date/time received: 12/14/23 @ 825 By: EST

Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other

Cooler Inspection Date/time inspected: 12/14/23 @ 944 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)	2.5	1.7					
Custody seals? (Y/N)	N	N					
Received on ice? (Y/N)	Y	Y					
Temp. blanks? (Y/N)	Y	Y					
Ice type: (Gel/Real/Other)	Real	Real					
Condition (In/Out):	In	In					

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: Date/time inspected: 12/14/23 @ 1427 By: Kms

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: acc for EDS 12/14/23

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☒ NA ☐ pH ID: A231172

Comments: Ph 7 on 125ml NaOH brown poig for -08. A231172 acc for EDS 12/14/23

Additional information: TB# 3447

Labeled by:

Witness:

Cooler Inspected by:

Form Y-003 R-01

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