



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, December 5, 2023

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

RE: A311134 - Gasco-MGP Only Mon.Wells 3Q 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 A311134, which was received by the laboratory on 9/15/2023 at 8:26:00AM.

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)	
Default Cooler	3.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

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



Apex Laboratories

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Darwin Thomas, Business Development Director



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Project: Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS-091423-22	A3I1134-01	WG	09/14/23 15:15	09/15/23 08:26
TB-091423	A3I1134-02	W	09/14/23 16:15	09/15/23 08:26

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Project Manager: **John Renda**

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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091423-22 (A3I1134-01)		Matrix: WG			Batch: 23I0865			
Diesel	1770	98.0	196	ug/L	1	09/27/23 22:13	NWTPH-Dx	F-13
Oil	595	196	392	ug/L	1	09/27/23 22:13	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 115 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>09/27/23 22:13</i>	<i>NWTPH-Dx</i>	

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ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091423-22 (A3I1134-01RE2)		Matrix: WG			Batch: 23I0970			
Gasoline Range Organics	1660	250	500	ug/L	5	09/28/23 23:36	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	105 %	Limits: 50-150 %	1	09/28/23 23:36	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			103 %	50-150 %	1	09/28/23 23:36	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-091423-22 (A3I1134-01)		Matrix: WG			Batch: 23I0825			
Carbon disulfide	2160	250	500	ug/L	50	09/27/23 00:39	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	107 %	Limits: 80-120 %	1	09/27/23 00:39	EPA 8260D	
Toluene-d8 (Surr)			102 %	80-120 %	1	09/27/23 00:39	EPA 8260D	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	09/27/23 00:39	EPA 8260D	
GS-091423-22 (A3I1134-01RE2)		Matrix: WG			Batch: 23I0970			
Acetone	ND	50.0	100	ug/L	5	09/28/23 23:36	EPA 8260D	
Acrylonitrile	ND	5.00	10.0	ug/L	5	09/28/23 23:36	EPA 8260D	
Benzene	4.65	0.500	1.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Bromobenzene	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
Bromochloromethane	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Bromodichloromethane	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Bromoform	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Bromomethane	ND	25.0	25.0	ug/L	5	09/28/23 23:36	EPA 8260D	
2-Butanone (MEK)	ND	25.0	50.0	ug/L	5	09/28/23 23:36	EPA 8260D	
n-Butylbenzene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
sec-Butylbenzene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
tert-Butylbenzene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Carbon tetrachloride	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Chlorobenzene	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	5	09/28/23 23:36	EPA 8260D	
Chloroform	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Chloromethane	ND	12.5	25.0	ug/L	5	09/28/23 23:36	EPA 8260D	
2-Chlorotoluene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
4-Chlorotoluene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Dibromochloromethane	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	12.5	25.0	ug/L	5	09/28/23 23:36	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
Dibromomethane	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,2-Dichlorobenzene	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
Dichlorodifluoromethane	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1134 - 12 05 23 0629**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091423-22 (A3I1134-01RE2)		Matrix: WG		Batch: 23I0970				
1,1-Dichloroethane	ND	1.00	2.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	1.00	2.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,2-Dichloropropane	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
1,3-Dichloropropane	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
2,2-Dichloropropane	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,1-Dichloropropene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
cis-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
trans-1,3-Dichloropropene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Ethylbenzene	6.15	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	09/28/23 23:36	EPA 8260D	
2-Hexanone	ND	25.0	50.0	ug/L	5	09/28/23 23:36	EPA 8260D	
Isopropylbenzene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
4-Isopropyltoluene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Methylene chloride	ND	25.0	50.0	ug/L	5	09/28/23 23:36	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	25.0	50.0	ug/L	5	09/28/23 23:36	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Naphthalene	388	12.5	25.0	ug/L	5	09/28/23 23:36	EPA 8260D	
n-Propylbenzene	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
Styrene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	1.00	2.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	09/28/23 23:36	EPA 8260D	
Toluene	5.50	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,2,3-Trichlorobenzene	ND	5.00	10.0	ug/L	5	09/28/23 23:36	EPA 8260D	
1,2,4-Trichlorobenzene	ND	5.00	10.0	ug/L	5	09/28/23 23:36	EPA 8260D	
1,1,1-Trichloroethane	ND	1.00	2.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,1,2-Trichloroethane	ND	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	
Trichlorofluoromethane	ND	5.00	10.0	ug/L	5	09/28/23 23:36	EPA 8260D	
1,2,3-Trichloropropane	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,2,4-Trimethylbenzene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
1,3,5-Trimethylbenzene	ND	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	
m,p-Xylene	4.65	2.50	5.00	ug/L	5	09/28/23 23:36	EPA 8260D	J
o-Xylene	1.95	1.25	2.50	ug/L	5	09/28/23 23:36	EPA 8260D	J

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091423-22 (A3I1134-01RE2)		Matrix: WG			Batch: 23I0970			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %	Limits: 80-120 %	1		09/28/23 23:36	EPA 8260D	
Toluene-d8 (Surr)		100 %	80-120 %	1		09/28/23 23:36	EPA 8260D	
4-Bromofluorobenzene (Surr)		100 %	80-120 %	1		09/28/23 23:36	EPA 8260D	
TB-091423 (A3I1134-02)		Matrix: W			Batch: 23I0825			
Acetone	ND	10.0	20.0	ug/L	1	09/26/23 16:22	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	09/26/23 16:22	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	09/26/23 16:22	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	09/26/23 16:22	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	09/26/23 16:22	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	09/26/23 16:22	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	09/26/23 16:22	EPA 8260D	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-091423 (A3I1134-02)		Matrix: W			Batch: 23I0825			
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	09/26/23 16:22	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	09/26/23 16:22	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/26/23 16:22	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	09/26/23 16:22	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	09/26/23 16:22	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	09/26/23 16:22	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	09/26/23 16:22	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	09/26/23 16:22	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	09/26/23 16:22	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	09/26/23 16:22	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	09/26/23 16:22	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	09/26/23 16:22	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	09/26/23 16:22	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	

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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 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1134 - 12 05 23 0629**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-091423 (A3I1134-02)		Matrix: W			Batch: 23I0825			
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	09/26/23 16:22	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	09/26/23 16:22	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	09/26/23 16:22	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>09/26/23 16:22</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/26/23 16:22</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>09/26/23 16:22</i>	<i>EPA 8260D</i>	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091423-22 (A3I1134-01)		Matrix: WG			Batch: 23I0951			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	09/28/23 16:06	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	09/28/23 16:06	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	09/28/23 16:06	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	09/28/23 16:06	EPA 8260D SIM	
Vinyl chloride	ND	0.250	0.500	ug/L	25	09/28/23 16:06	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	105 %	Limits:	80-120 %	1	09/28/23 16:06	EPA 8260D SIM
Toluene-d8 (Surr)			101 %		80-120 %	1	09/28/23 16:06	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			97 %		80-120 %	1	09/28/23 16:06	EPA 8260D SIM

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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-091423-22 (A3I1134-01)		Matrix: WG			Batch: 23I0512			
Acenaphthylene	ND	2.08	2.08	ug/L	1	09/18/23 12:24	EPA 8270E LVI	R-02
Anthracene	2.13	0.0171	0.0341	ug/L	1	09/18/23 12:24	EPA 8270E LVI	
Benz(a)anthracene	0.0952	0.00854	0.0171	ug/L	1	09/18/23 12:24	EPA 8270E LVI	
Benzo(a)pyrene	0.0794	0.00854	0.0171	ug/L	1	09/18/23 12:24	EPA 8270E LVI	
Benzo(k)fluoranthene	0.0350	0.00854	0.0171	ug/L	1	09/18/23 12:24	EPA 8270E LVI	M-05
Benzo(g,h,i)perylene	0.0346	0.0171	0.0341	ug/L	1	09/18/23 12:24	EPA 8270E LVI	
Chrysene	0.108	0.00854	0.0171	ug/L	1	09/18/23 12:24	EPA 8270E LVI	
Dibenz(a,h)anthracene	0.00854	0.00854	0.0171	ug/L	1	09/18/23 12:24	EPA 8270E LVI	J
Fluoranthene	0.884	0.0171	0.0341	ug/L	1	09/18/23 12:24	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	0.0376	0.00854	0.0171	ug/L	1	09/18/23 12:24	EPA 8270E LVI	
Pyrene	0.766	0.0171	0.0341	ug/L	1	09/18/23 12:24	EPA 8270E LVI	
Dibenzofuran	5.01	0.0171	0.0341	ug/L	1	09/18/23 12:24	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 92 %		Limits: 78-134 %	1	09/18/23 12:24	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		117 %		80-132 %	1	09/18/23 12:24	EPA 8270E LVI	
GS-091423-22 (A3I1134-01RE1)		Matrix: WG			Batch: 23I0512			
Acenaphthene	55.8	0.854	1.71	ug/L	50	09/18/23 18:56	EPA 8270E LVI	
Fluorene	40.1	0.854	1.71	ug/L	50	09/18/23 18:56	EPA 8270E LVI	
1-Methylnaphthalene	32.0	1.71	3.41	ug/L	50	09/18/23 18:56	EPA 8270E LVI	
2-Methylnaphthalene	42.5	1.71	3.41	ug/L	50	09/18/23 18:56	EPA 8270E LVI	
Naphthalene	308	1.71	3.41	ug/L	50	09/18/23 18:56	EPA 8270E LVI	
Phenanthrene	30.9	1.71	3.41	ug/L	50	09/18/23 18:56	EPA 8270E LVI	

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091423-22 (A3I1134-01)		Matrix: WG						
Batch: 23I0737								
Antimony	ND	0.500	1.00	ug/L	1	09/23/23 03:39	EPA 6020B	
Arsenic	3.59	0.500	1.00	ug/L	1	09/23/23 03:39	EPA 6020B	
Barium	27.3	1.00	2.00	ug/L	1	09/23/23 03:39	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	09/23/23 03:39	EPA 6020B	
Chromium	5.37	1.00	2.00	ug/L	1	09/23/23 03:39	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	09/23/23 03:39	EPA 6020B	
Iron	19800	25.0	50.0	ug/L	1	09/23/23 03:39	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	09/23/23 03:39	EPA 6020B	
Manganese	511	0.500	1.00	ug/L	1	09/23/23 03:39	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	09/23/23 03:39	EPA 6020B	
Nickel	14.7	1.00	2.00	ug/L	1	09/23/23 03:39	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	09/23/23 03:39	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	09/23/23 03:39	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	09/23/23 03:39	EPA 6020B	
Vanadium	14.0	1.00	2.00	ug/L	1	09/23/23 03:39	EPA 6020B	
Zinc	5.47	2.00	4.00	ug/L	1	09/23/23 03:39	EPA 6020B	
GS-091423-22 (A3I1134-01RE2)		Matrix: WG						
Batch: 23I0737								
Aluminum	17200	25.0	50.0	ug/L	1	09/26/23 16:08	EPA 6020B	
Beryllium	0.655	0.100	0.200	ug/L	1	09/26/23 16:08	EPA 6020B	

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A3I1134 - 12 05 23 0629

ANALYTICAL SAMPLE RESULTS

Total Cyanide by Flow Analysis (Aqueous)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091423-22 (A3I1134-01RE1)				Matrix: WG		Batch: 23I0817		
Total Cyanide	3.02	0.0500	0.0500	mg/L	10	09/26/23 17:58	EPA 335.4	

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1134 - 12 05 23 0629****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-091423-22 (A3I1134-01)				Matrix: WG		Batch: 23I0791		
Available Cyanide	0.0249	0.00100	0.00200	mg/L	1	09/25/23 15:22	D6888-09	

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ANALYTICAL SAMPLE RESULTS

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-091423-22 (A3I1134-01)				Matrix: WG		Batch: 23I0927		
Free Cyanide	0.0179	0.00250	0.00500	mg/L	1	09/28/23 15:56	D4282-02	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 2310865 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (2310865-BLK1)			Prepared: 09/27/23 06:52		Analyzed: 09/27/23 20:51								
NWTPH-Dx													
Diesel	ND	100	200	ug/L	1	---	---	---	---	---	---		
Oil	ND	200	400	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x							
LCS (2310865-BS1)			Prepared: 09/27/23 06:52		Analyzed: 09/27/23 21:11								
NWTPH-Dx													
Diesel	860	100	200	ug/L	1	1250	---	69	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 105 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (2310865-BSD1)			Prepared: 09/27/23 06:52		Analyzed: 09/27/23 21:32								Q-19
NWTPH-Dx													
Diesel	870	100	200	ug/L	1	1250	---	70	36-132%	1	30%		
Surr: o-Terphenyl (Surr)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x							

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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 23I0825 - EPA 5030C						Water						
Blank (23I0825-BLK1)			Prepared: 09/26/23 09:56 Analyzed: 09/26/23 16:00									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		102 %		50-150 %		"						
LCS (23I0825-BS2)			Prepared: 09/26/23 09:56 Analyzed: 09/26/23 15:37									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	452	50.0	100	ug/L	1	500	---	90	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		102 %		50-150 %		"						
Duplicate (23I0825-DUP1)			Prepared: 09/26/23 09:56 Analyzed: 09/26/23 17:30									
<u>QC Source Sample: Non-SDG (A3I1141-05)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		105 %		50-150 %		"						
Duplicate (23I0825-DUP2)			Prepared: 09/26/23 09:56 Analyzed: 09/26/23 22:23									
<u>QC Source Sample: Non-SDG (A3I1408-02)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 93 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		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 23I0826 - EPA 5030C						Water						
Blank (23I0826-BLK1)			Prepared: 09/27/23 09:00 Analyzed: 09/27/23 13:19									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
LCS (23I0826-BS2)			Prepared: 09/27/23 09:00 Analyzed: 09/27/23 12:57									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	457	50.0	100	ug/L	1	500	---	91	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		103 %		50-150 %		"						
Duplicate (23I0826-DUP1)			Prepared: 09/27/23 09:00 Analyzed: 09/27/23 20:37									
<u>QC Source Sample: Non-SDG (A3I1247-01)</u>												
Gasoline Range Organics	3010	250	500	ug/L	5	---	3210	---	---	7	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		99 %		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 2310970 - EPA 5030C						Water						
Blank (2310970-BLK1)			Prepared: 09/28/23 17:19 Analyzed: 09/28/23 23:09									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 101 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
LCS (2310970-BS2)			Prepared: 09/28/23 17:19 Analyzed: 09/28/23 22:41									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	550	50.0	100	ug/L	1	500	---	110	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 99 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		101 %		50-150 %		"						
Duplicate (2310970-DUP1)			Prepared: 09/28/23 17:19 Analyzed: 09/29/23 07:49									
<u>QC Source Sample: Non-SDG (A3I1222-02)</u>												
Gasoline Range Organics	6020	500	1000	ug/L	10	---	6180	---	---	3	30%	F-12
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 100 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						

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A3I1134 - 12 05 23 0629

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 2310825 - EPA 5030C						Water						
Blank (2310825-BLK1)			Prepared: 09/26/23 09:56		Analyzed: 09/26/23 16:00							
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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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 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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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 2310825 - EPA 5030C						Water						
Blank (2310825-BLK1)						Prepared: 09/26/23 09:56 Analyzed: 09/26/23 16:00						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.50	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: 102 % 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

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Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 2310825 - EPA 5030C						Water						
Blank (2310825-BLK1)			Prepared: 09/26/23 09:56		Analyzed: 09/26/23 16:00							
Surr: Toluene-d8 (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
LCS (2310825-BS1)			Prepared: 09/26/23 09:56		Analyzed: 09/26/23 15:08							
EPA 8260D												
Acetone	64.4	10.0	20.0	ug/L	1	40.0	---	161	80-120%	---	---	Q-56
Acrylonitrile	20.9	1.00	2.00	ug/L	1	20.0	---	105	80-120%	---	---	
Benzene	21.3	0.100	0.200	ug/L	1	20.0	---	106	80-120%	---	---	
Bromobenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Bromochloromethane	22.7	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Bromodichloromethane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromoform	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Bromomethane	28.5	5.00	5.00	ug/L	1	20.0	---	143	80-120%	---	---	Q-56
2-Butanone (MEK)	49.7	5.00	10.0	ug/L	1	40.0	---	124	80-120%	---	---	Q-56
n-Butylbenzene	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
sec-Butylbenzene	23.0	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
tert-Butylbenzene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Carbon disulfide	29.1	5.00	10.0	ug/L	1	20.0	---	146	80-120%	---	---	Q-56
Carbon tetrachloride	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Chlorobenzene	21.3	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Chloroethane	26.0	5.00	5.00	ug/L	1	20.0	---	130	80-120%	---	---	Q-56
Chloroform	21.5	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Chloromethane	20.0	2.50	5.00	ug/L	1	20.0	---	100	80-120%	---	---	
2-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Chlorotoluene	21.9	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Dibromochloromethane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,2-Dibromo-3-chloropropane	20.8	2.50	5.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dibromoethane (EDB)	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Dibromomethane	21.7	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,2-Dichlorobenzene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
1,3-Dichlorobenzene	21.8	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
1,4-Dichlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Dichlorodifluoromethane	21.3	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1-Dichloroethane	22.3	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	

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Project Manager: John Renda

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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 2310825 - EPA 5030C						Water						
LCS (2310825-BS1)						Prepared: 09/26/23 09:56 Analyzed: 09/26/23 15:08						
1,2-Dichloroethane (EDC)	22.3	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
1,1-Dichloroethene	27.7	0.200	0.400	ug/L	1	20.0	---	138	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	21.2	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
trans-1,2-Dichloroethene	28.4	0.200	0.400	ug/L	1	20.0	---	142	80-120%	---	---	Q-56
1,2-Dichloropropane	21.1	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
1,3-Dichloropropane	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
2,2-Dichloropropane	24.0	0.500	1.00	ug/L	1	20.0	---	120	80-120%	---	---	
1,1-Dichloropropene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
cis-1,3-Dichloropropene	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
trans-1,3-Dichloropropene	23.8	0.500	1.00	ug/L	1	20.0	---	119	80-120%	---	---	
Ethylbenzene	22.0	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Hexachlorobutadiene	21.0	2.50	5.00	ug/L	1	20.0	---	105	80-120%	---	---	
2-Hexanone	45.7	5.00	10.0	ug/L	1	40.0	---	114	80-120%	---	---	
Isopropylbenzene	20.5	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
4-Isopropyltoluene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Methylene chloride	28.6	5.00	10.0	ug/L	1	20.0	---	143	80-120%	---	---	Q-56
4-Methyl-2-pentanone (MiBK)	44.2	5.00	10.0	ug/L	1	40.0	---	111	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	23.6	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
Naphthalene	18.4	2.50	5.00	ug/L	1	20.0	---	92	80-120%	---	---	
n-Propylbenzene	22.4	0.250	0.500	ug/L	1	20.0	---	112	80-120%	---	---	
Styrene	19.3	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,1,2-Tetrachloroethane	22.1	0.200	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
1,1,2,2-Tetrachloroethane	21.3	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Tetrachloroethene (PCE)	20.9	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
Toluene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2,3-Trichlorobenzene	21.0	1.00	2.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2,4-Trichlorobenzene	19.5	1.00	2.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,1,1-Trichloroethane	22.7	0.200	0.400	ug/L	1	20.0	---	114	80-120%	---	---	
1,1,2-Trichloroethane	21.3	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Trichloroethene (TCE)	21.4	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
Trichlorofluoromethane	25.2	1.00	2.00	ug/L	1	20.0	---	126	80-120%	---	---	Q-56
1,2,3-Trichloropropane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2,4-Trimethylbenzene	23.3	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
1,3,5-Trimethylbenzene	23.4	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 2310825 - EPA 5030C						Water						
LCS (2310825-BS1)						Prepared: 09/26/23 09:56 Analyzed: 09/26/23 15:08						
Vinyl chloride	23.3	0.100	0.200	ug/L	1	20.0	---	117	80-120%	---	---	
m,p-Xylene	46.7	0.500	1.00	ug/L	1	40.0	---	117	80-120%	---	---	
o-Xylene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

Duplicate (2310825-DUP1)

Prepared: 09/26/23 09:56 Analyzed: 09/26/23 17:30

QC Source Sample: Non-SDG (A3I1141-05)

Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%

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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 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0825 - EPA 5030C						Water						
Duplicate (23I0825-DUP1)			Prepared: 09/26/23 09:56		Analyzed: 09/26/23 17:30							
QC Source Sample: Non-SDG (A3I1141-05)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0825 - EPA 5030C						Water						
Duplicate (23I0825-DUP1)			Prepared: 09/26/23 09:56 Analyzed: 09/26/23 17:30									
QC Source Sample: Non-SDG (A3I1141-05)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

Duplicate (23I0825-DUP2) Prepared: 09/26/23 09:56 Analyzed: 09/26/23 22:23

QC Source Sample: Non-SDG (A3I1408-02)

Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0825 - EPA 5030C						Water						
Duplicate (23I0825-DUP2)			Prepared: 09/26/23 09:56		Analyzed: 09/26/23 22:23							
QC Source Sample: Non-SDG (A3I1408-02)												
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%	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1134 - 12 05 23 0629**

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 23I0825 - EPA 5030C						Water						
Duplicate (23I0825-DUP2)			Prepared: 09/26/23 09:56 Analyzed: 09/26/23 22:23									
QC Source Sample: Non-SDG (A3I1408-02)												
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

Matrix Spike (23I0825-MS1)

Prepared: 09/26/23 09:56 Analyzed: 09/26/23 21:16

QC Source Sample: Non-SDG (A3I1402-02)**EPA 8260D**

Acetone	174	10.0	20.0	ug/L	1	40.0	89.3	213	39-160%	---	---	Q-54f
Acrylonitrile	21.6	1.00	2.00	ug/L	1	20.0	ND	108	63-135%	---	---	
Benzene	22.5	0.100	0.200	ug/L	1	20.0	ND	113	79-120%	---	---	
Bromobenzene	21.1	0.250	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
Bromochloromethane	23.5	0.500	1.00	ug/L	1	20.0	ND	117	78-123%	---	---	
Bromodichloromethane	23.2	0.500	1.00	ug/L	1	20.0	ND	116	79-125%	---	---	
Bromoform	21.4	0.500	1.00	ug/L	1	20.0	ND	107	66-130%	---	---	
Bromomethane	30.8	5.00	5.00	ug/L	1	20.0	ND	154	53-141%	---	---	Q-54c
2-Butanone (MEK)	63.6	5.00	10.0	ug/L	1	40.0	ND	159	56-143%	---	---	Q-54e
n-Butylbenzene	23.1	0.500	1.00	ug/L	1	20.0	ND	115	75-128%	---	---	
sec-Butylbenzene	24.2	0.500	1.00	ug/L	1	20.0	ND	121	77-126%	---	---	
tert-Butylbenzene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	78-124%	---	---	

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Project Manager: John Renda

Report ID:

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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 2310825 - EPA 5030C							Water					
Matrix Spike (2310825-MS1)			Prepared: 09/26/23 09:56		Analyzed: 09/26/23 21:16							
QC Source Sample: Non-SDG (A311402-02)												
Carbon disulfide	31.9	5.00	10.0	ug/L	1	20.0	ND	160	64-133%	---	---	Q-54d
Carbon tetrachloride	24.3	0.500	1.00	ug/L	1	20.0	ND	122	72-136%	---	---	
Chlorobenzene	22.2	0.250	0.500	ug/L	1	20.0	ND	111	80-120%	---	---	
Chloroethane	27.2	5.00	5.00	ug/L	1	20.0	ND	136	60-138%	---	---	Q-54
Chloroform	22.8	0.500	1.00	ug/L	1	20.0	ND	114	79-124%	---	---	
Chloromethane	21.4	2.50	5.00	ug/L	1	20.0	ND	107	50-139%	---	---	
2-Chlorotoluene	21.7	0.500	1.00	ug/L	1	20.0	ND	108	79-122%	---	---	
4-Chlorotoluene	22.9	0.500	1.00	ug/L	1	20.0	ND	114	78-122%	---	---	
Dibromochloromethane	22.9	0.500	1.00	ug/L	1	20.0	ND	115	74-126%	---	---	
1,2-Dibromo-3-chloropropane	20.8	2.50	5.00	ug/L	1	20.0	ND	104	62-128%	---	---	
1,2-Dibromoethane (EDB)	21.4	0.250	0.500	ug/L	1	20.0	ND	107	77-121%	---	---	
Dibromomethane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	79-123%	---	---	
1,2-Dichlorobenzene	21.8	0.250	0.500	ug/L	1	20.0	ND	109	80-120%	---	---	
1,3-Dichlorobenzene	22.4	0.250	0.500	ug/L	1	20.0	ND	112	80-120%	---	---	
1,4-Dichlorobenzene	21.5	0.250	0.500	ug/L	1	20.0	ND	108	79-120%	---	---	
Dichlorodifluoromethane	24.0	0.500	1.00	ug/L	1	20.0	ND	120	32-152%	---	---	
1,1-Dichloroethane	23.5	0.200	0.400	ug/L	1	20.0	ND	118	77-125%	---	---	
1,2-Dichloroethane (EDC)	23.0	0.200	0.400	ug/L	1	20.0	ND	115	73-128%	---	---	
1,1-Dichloroethene	30.3	0.200	0.400	ug/L	1	20.0	ND	151	71-131%	---	---	Q-54a
cis-1,2-Dichloroethene	21.7	0.200	0.400	ug/L	1	20.0	ND	108	78-123%	---	---	
trans-1,2-Dichloroethene	30.7	0.200	0.400	ug/L	1	20.0	ND	154	75-124%	---	---	Q-54b
1,2-Dichloropropane	22.1	0.250	0.500	ug/L	1	20.0	ND	111	78-122%	---	---	
1,3-Dichloropropane	21.1	0.500	1.00	ug/L	1	20.0	ND	106	80-120%	---	---	
2,2-Dichloropropane	22.3	0.500	1.00	ug/L	1	20.0	ND	111	60-139%	---	---	
1,1-Dichloropropene	23.2	0.500	1.00	ug/L	1	20.0	ND	116	79-125%	---	---	
cis-1,3-Dichloropropene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	75-124%	---	---	
trans-1,3-Dichloropropene	23.4	0.500	1.00	ug/L	1	20.0	ND	117	73-127%	---	---	
Ethylbenzene	23.1	0.250	0.500	ug/L	1	20.0	ND	116	79-121%	---	---	
Hexachlorobutadiene	19.8	2.50	5.00	ug/L	1	20.0	ND	99	66-134%	---	---	
2-Hexanone	52.9	5.00	10.0	ug/L	1	40.0	ND	132	57-139%	---	---	
Isopropylbenzene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	72-131%	---	---	
4-Isopropyltoluene	22.3	0.500	1.00	ug/L	1	20.0	ND	112	77-127%	---	---	
Methylene chloride	28.3	5.00	10.0	ug/L	1	20.0	ND	142	74-124%	---	---	Q-54c

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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 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0825 - EPA 5030C						Water						
Matrix Spike (23I0825-MS1)				Prepared: 09/26/23 09:56		Analyzed: 09/26/23 21:16						
QC Source Sample: Non-SDG (A3I1402-02)												
4-Methyl-2-pentanone (MiBK)	46.0	5.00	10.0	ug/L	1	40.0	ND	115	67-130%	---	---	Q-54g
Methyl tert-butyl ether (MTBE)	24.3	0.500	1.00	ug/L	1	20.0	ND	122	71-124%	---	---	
Naphthalene	18.6	2.50	5.00	ug/L	1	20.0	ND	93	61-128%	---	---	
n-Propylbenzene	23.9	0.250	0.500	ug/L	1	20.0	ND	120	76-126%	---	---	
Styrene	20.1	0.500	1.00	ug/L	1	20.0	ND	101	78-123%	---	---	
1,1,1,2-Tetrachloroethane	22.9	0.200	0.400	ug/L	1	20.0	ND	114	78-124%	---	---	
1,1,2,2-Tetrachloroethane	21.8	0.250	0.500	ug/L	1	20.0	ND	109	71-121%	---	---	
Tetrachloroethene (PCE)	22.4	0.200	0.400	ug/L	1	20.0	ND	112	74-129%	---	---	
Toluene	22.2	0.500	1.00	ug/L	1	20.0	ND	111	80-121%	---	---	
1,2,3-Trichlorobenzene	21.0	1.00	2.00	ug/L	1	20.0	ND	105	69-129%	---	---	
1,2,4-Trichlorobenzene	19.4	1.00	2.00	ug/L	1	20.0	ND	97	69-130%	---	---	
1,1,1-Trichloroethane	24.4	0.200	0.400	ug/L	1	20.0	ND	122	74-131%	---	---	
1,1,2-Trichloroethane	21.8	0.250	0.500	ug/L	1	20.0	ND	109	80-120%	---	---	
Trichloroethene (TCE)	22.6	0.200	0.400	ug/L	1	20.0	ND	113	79-123%	---	---	
Trichlorofluoromethane	28.8	1.00	2.00	ug/L	1	20.0	ND	144	65-141%	---	---	
1,2,3-Trichloropropane	21.8	0.500	1.00	ug/L	1	20.0	ND	109	73-122%	---	---	
1,2,4-Trimethylbenzene	24.1	0.500	1.00	ug/L	1	20.0	ND	121	76-124%	---	---	
1,3,5-Trimethylbenzene	24.6	0.500	1.00	ug/L	1	20.0	ND	123	75-124%	---	---	
Vinyl chloride	25.6	0.100	0.200	ug/L	1	20.0	ND	128	58-137%	---	---	
m,p-Xylene	49.3	0.500	1.00	ug/L	1	40.0	ND	123	80-121%	---	---	
o-Xylene	21.9	0.250	0.500	ug/L	1	20.0	ND	110	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						

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Darwin Thomas, Business Development Director

Page 30 of 68

**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 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1134 - 12 05 23 0629****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 23I0826 - EPA 5030C						Water						
Blank (23I0826-BLK1)				Prepared: 09/27/23 09:00		Analyzed: 09/27/23 13:19						
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	1.00	1.00	ug/L	1	---	---	---	---	---	---	Q-54h
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 2310826 - EPA 5030C						Water						
Blank (2310826-BLK1)						Prepared: 09/27/23 09:00 Analyzed: 09/27/23 13:19						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.100	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: 104 % 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

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 2310826 - EPA 5030C						Water						
Blank (2310826-BLK1)			Prepared: 09/27/23 09:00		Analyzed: 09/27/23 13:19							
Surr: Toluene-d8 (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						
LCS (2310826-BS1)			Prepared: 09/27/23 09:00		Analyzed: 09/27/23 12:01							A-01
EPA 8260D												
Acetone	57.0	10.0	20.0	ug/L	1	40.0	---	142	80-120%	---	---	Q-56
Acrylonitrile	21.1	1.00	2.00	ug/L	1	20.0	---	106	80-120%	---	---	
Benzene	21.8	0.100	0.200	ug/L	1	20.0	---	109	80-120%	---	---	
Bromobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Bromochloromethane	23.6	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
Bromodichloromethane	23.8	0.500	1.00	ug/L	1	20.0	---	119	80-120%	---	---	
Bromoform	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Bromomethane	25.3	5.00	5.00	ug/L	1	20.0	---	126	80-120%	---	---	Q-56
2-Butanone (MEK)	46.7	5.00	10.0	ug/L	1	40.0	---	117	80-120%	---	---	
n-Butylbenzene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
sec-Butylbenzene	22.1	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
tert-Butylbenzene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Carbon disulfide	27.7	5.00	10.0	ug/L	1	20.0	---	138	80-120%	---	---	Q-56
Carbon tetrachloride	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Chlorobenzene	21.8	0.250	0.500	ug/L	1	20.0	---	109	80-120%	---	---	
Chloroethane	26.1	5.00	5.00	ug/L	1	20.0	---	130	80-120%	---	---	Q-56
Chloroform	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Chloromethane	17.1	2.50	5.00	ug/L	1	20.0	---	86	80-120%	---	---	
2-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Chlorotoluene	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Dibromochloromethane	23.4	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
1,2-Dibromo-3-chloropropane	20.2	2.50	5.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dibromoethane (EDB)	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Dibromomethane	22.7	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
1,2-Dichlorobenzene	21.3	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
1,3-Dichlorobenzene	22.2	0.250	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
1,4-Dichlorobenzene	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Dichlorodifluoromethane	12.9	1.00	1.00	ug/L	1	20.0	---	65	80-120%	---	---	Q-54h
1,1-Dichloroethane	23.0	0.200	0.400	ug/L	1	20.0	---	115	80-120%	---	---	

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ANALYTICAL REPORT

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Anchor QEA, LLC

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Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**

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

Project Manager: **John Renda**

Report ID:

A3I1134 - 12 05 23 0629

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 2310826 - EPA 5030C						Water						
LCS (2310826-BS1)						Prepared: 09/27/23 09:00 Analyzed: 09/27/23 12:01						A-01
1,2-Dichloroethane (EDC)	23.4	0.200	0.400	ug/L	1	20.0	---	117	80-120%	---	---	
1,1-Dichloroethene	26.2	0.200	0.400	ug/L	1	20.0	---	131	80-120%	---	---	Q-56
cis-1,2-Dichloroethene	21.1	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
trans-1,2-Dichloroethene	28.3	0.200	0.400	ug/L	1	20.0	---	142	80-120%	---	---	Q-56
1,2-Dichloropropane	22.0	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
1,3-Dichloropropane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
2,2-Dichloropropane	24.7	0.500	1.00	ug/L	1	20.0	---	124	80-120%	---	---	Q-56
1,1-Dichloropropene	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
cis-1,3-Dichloropropene	22.5	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
trans-1,3-Dichloropropene	24.4	0.500	1.00	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
Ethylbenzene	22.1	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Hexachlorobutadiene	19.9	2.50	5.00	ug/L	1	20.0	---	99	80-120%	---	---	
2-Hexanone	41.6	5.00	10.0	ug/L	1	40.0	---	104	80-120%	---	---	
Isopropylbenzene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
4-Isopropyltoluene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Methylene chloride	30.0	5.00	10.0	ug/L	1	20.0	---	150	80-120%	---	---	Q-56
4-Methyl-2-pentanone (MiBK)	44.3	5.00	10.0	ug/L	1	40.0	---	111	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	24.2	0.500	1.00	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
Naphthalene	17.0	2.50	5.00	ug/L	1	20.0	---	85	80-120%	---	---	
n-Propylbenzene	22.1	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Styrene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,1,1,2-Tetrachloroethane	23.3	0.200	0.400	ug/L	1	20.0	---	117	80-120%	---	---	
1,1,2,2-Tetrachloroethane	21.9	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Tetrachloroethene (PCE)	21.0	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
Toluene	21.3	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
1,2,3-Trichlorobenzene	20.4	1.00	2.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2,4-Trichlorobenzene	18.6	1.00	2.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,1,1-Trichloroethane	22.9	0.200	0.400	ug/L	1	20.0	---	115	80-120%	---	---	
1,1,2-Trichloroethane	22.1	0.250	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
Trichloroethene (TCE)	21.4	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
Trichlorofluoromethane	22.8	1.00	2.00	ug/L	1	20.0	---	114	80-120%	---	---	
1,2,3-Trichloropropane	21.7	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,2,4-Trimethylbenzene	23.2	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
1,3,5-Trimethylbenzene	23.4	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 2310826 - EPA 5030C						Water						
LCS (2310826-BS1)			Prepared: 09/27/23 09:00 Analyzed: 09/27/23 12:01						A-01			
Vinyl chloride	19.9	0.100	0.200	ug/L	1	20.0	---	99	80-120%	---	---	
m,p-Xylene	47.4	0.500	1.00	ug/L	1	40.0	---	118	80-120%	---	---	
o-Xylene	20.5	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						

Duplicate (2310826-DUP1)

Prepared: 09/27/23 09:00 Analyzed: 09/27/23 20:37

QC Source Sample: Non-SDG (A3I1247-01)

Acetone	ND	50.0	100	ug/L	5	---	ND	---	---	---	30%	
Acrylonitrile	ND	5.00	10.0	ug/L	5	---	ND	---	---	---	30%	
Benzene	138	0.500	1.00	ug/L	5	---	150	---	---	9	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	2.50	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%	
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	1.85	1.25	2.50	ug/L	5	---	2.15	---	---	15	30%	J

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

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Project: Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0826 - EPA 5030C						Water						
Duplicate (23I0826-DUP1)			Prepared: 09/27/23 09:00		Analyzed: 09/27/23 20:37							
QC Source Sample: Non-SDG (A3I1247-01)												
1,3-Dichlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	Q-54h
1,4-Dichlorobenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	5.00	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%	Q-54h
cis-1,2-Dichloroethene	2.50	1.00	2.00	ug/L	5	---	2.55	---	---	2	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%	Q-54h
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	28.6	1.25	2.50	ug/L	5	---	31.4	---	---	9	30%	
Hexachlorobutadiene	ND	12.5	25.0	ug/L	5	---	ND	---	---	---	30%	Q-54h
2-Hexanone	ND	25.0	50.0	ug/L	5	---	ND	---	---	---	30%	
Isopropylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
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%	Q-54h
Methyl tert-butyl ether (MTBE)	ND	5.00	5.00	ug/L	5	---	ND	---	---	---	30%	
Naphthalene	1060	12.5	25.0	ug/L	5	---	1170	---	---	10	30%	
n-Propylbenzene	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	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%	Q-54h
1,1,2,2-Tetrachloroethane	ND	1.25	2.50	ug/L	5	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	1.00	2.00	ug/L	5	---	ND	---	---	---	30%	
Toluene	1.80	1.25	2.50	ug/L	5	---	1.90	---	---	5	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%	Q-54h
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%	

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Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1134 - 12 05 23 0629**

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 23I0826 - EPA 5030C							Water					
Duplicate (23I0826-DUP1)			Prepared: 09/27/23 09:00		Analyzed: 09/27/23 20:37							
QC Source Sample: Non-SDG (A3I1247-01)												
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	5.75	2.50	5.00	ug/L	5	---	6.75	---	---	16	30%	
1,3,5-Trimethylbenzene	ND	2.50	5.00	ug/L	5	---	ND	---	---	---	30%	
Vinyl chloride	5.65	0.500	1.00	ug/L	5	---	6.15	---	---	8	30%	
m,p-Xylene	12.1	2.50	5.00	ug/L	5	---	13.2	---	---	9	30%	
o-Xylene	8.05	1.25	2.50	ug/L	5	---	9.05	---	---	12	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 2310970 - EPA 5030C						Water						
Blank (2310970-BLK1)			Prepared: 09/28/23 17:19		Analyzed: 09/28/23 23:09							
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	0.100	0.200	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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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 2310970 - EPA 5030C						Water						
Blank (2310970-BLK1)						Prepared: 09/28/23 17:19 Analyzed: 09/28/23 23:09						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.50	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	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.100	0.200	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: 103 % Limits: 80-120 % Dilution: 1x												

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Portland, OR 97219

Project: Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0970 - EPA 5030C						Water						
Blank (23I0970-BLK1)			Prepared: 09/28/23 17:19		Analyzed: 09/28/23 23:09							
Surr: Toluene-d8 (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
LCS (23I0970-BS1)			Prepared: 09/28/23 17:19		Analyzed: 09/28/23 22:12							
EPA 8260D												
Acetone	36.4	10.0	20.0	ug/L	1	40.0	---	91	80-120%	---	---	
Acrylonitrile	19.6	1.00	2.00	ug/L	1	20.0	---	98	80-120%	---	---	
Benzene	20.8	0.100	0.200	ug/L	1	20.0	---	104	80-120%	---	---	
Bromobenzene	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Bromochloromethane	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Bromodichloromethane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Bromoform	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
Bromomethane	20.9	5.00	5.00	ug/L	1	20.0	---	105	80-120%	---	---	
2-Butanone (MEK)	39.9	5.00	10.0	ug/L	1	40.0	---	100	80-120%	---	---	
n-Butylbenzene	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
sec-Butylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
tert-Butylbenzene	21.9	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Carbon disulfide	21.9	5.00	10.0	ug/L	1	20.0	---	110	80-120%	---	---	
Carbon tetrachloride	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Chlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Chloroethane	20.5	5.00	5.00	ug/L	1	20.0	---	103	80-120%	---	---	
Chloroform	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Chloromethane	18.7	2.50	5.00	ug/L	1	20.0	---	94	80-120%	---	---	
2-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
4-Chlorotoluene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Dibromochloromethane	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.6	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.9	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Dibromomethane	19.3	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2-Dichlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichlorobenzene	21.1	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
1,4-Dichlorobenzene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Dichlorodifluoromethane	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
1,1-Dichloroethane	20.4	0.200	0.400	ug/L	1	20.0	---	102	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

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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 2310970 - EPA 5030C						Water						
LCS (2310970-BS1)						Prepared: 09/28/23 17:19 Analyzed: 09/28/23 22:12						
1,2-Dichloroethane (EDC)	20.1	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
1,1-Dichloroethene	21.8	0.100	0.200	ug/L	1	20.0	---	109	80-120%	---	---	
cis-1,2-Dichloroethene	20.5	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
trans-1,2-Dichloroethene	20.3	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dichloropropane	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
1,3-Dichloropropane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
2,2-Dichloropropane	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1-Dichloropropene	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
cis-1,3-Dichloropropene	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
trans-1,3-Dichloropropene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Ethylbenzene	20.7	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Hexachlorobutadiene	19.4	2.50	5.00	ug/L	1	20.0	---	97	80-120%	---	---	
2-Hexanone	35.0	5.00	10.0	ug/L	1	40.0	---	87	80-120%	---	---	
Isopropylbenzene	19.9	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
4-Isopropyltoluene	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Methylene chloride	20.8	5.00	10.0	ug/L	1	20.0	---	104	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	39.4	5.00	10.0	ug/L	1	40.0	---	99	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Naphthalene	20.2	2.50	5.00	ug/L	1	20.0	---	101	80-120%	---	---	
n-Propylbenzene	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Styrene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,1,1,2-Tetrachloroethane	21.8	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Tetrachloroethene (PCE)	20.5	0.100	0.200	ug/L	1	20.0	---	103	80-120%	---	---	
Toluene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	21.7	1.00	2.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,2,4-Trichlorobenzene	21.1	1.00	2.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,1,1-Trichloroethane	21.8	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
1,1,2-Trichloroethane	20.7	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Trichloroethene (TCE)	19.8	0.100	0.200	ug/L	1	20.0	---	99	80-120%	---	---	
Trichlorofluoromethane	22.3	1.00	2.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,2,3-Trichloropropane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2,4-Trimethylbenzene	22.7	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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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 23I0970 - EPA 5030C						Water						
LCS (23I0970-BS1)						Prepared: 09/28/23 17:19 Analyzed: 09/28/23 22:12						
Vinyl chloride	20.7	0.100	0.200	ug/L	1	20.0	---	103	80-120%	---	---	
m,p-Xylene	40.7	0.500	1.00	ug/L	1	40.0	---	102	80-120%	---	---	
o-Xylene	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

Duplicate (23I0970-DUP1)

Prepared: 09/28/23 17:19 Analyzed: 09/29/23 07:49

QC Source Sample: Non-SDG (A3I1222-02)

Acetone	ND	100	200	ug/L	10	---	ND	---	---	---	30%	
Acrylonitrile	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
Benzene	15.6	1.00	2.00	ug/L	10	---	16.3	---	---	4	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	2070	2.50	5.00	ug/L	10	---	2130	---	---	3	30%	E
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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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 23I0970 - EPA 5030C						Water						
Duplicate (23I0970-DUP1)			Prepared: 09/28/23 17:19 Analyzed: 09/29/23 07:49									
QC Source Sample: Non-SDG (A3I1222-02)												
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	233	2.50	5.00	ug/L	10	---	235	---	---	0.9	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	1.00	2.00	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	50.0	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	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
n-Propylbenzene	9.20	2.50	5.00	ug/L	10	---	9.20	---	---	0	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	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	2.50	5.00	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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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0970 - EPA 5030C Water												
Duplicate (23I0970-DUP1) Prepared: 09/28/23 17:19 Analyzed: 09/29/23 07:49												
QC Source Sample: Non-SDG (A3I1222-02)												
Trichloroethene (TCE)	ND	1.00	2.00	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: 101 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 102 % 80-120 % "												
4-Bromofluorobenzene (Surr) 98 % 80-120 % "												

Matrix Spike (23I0970-MS1)

Prepared: 09/28/23 17:19 Analyzed: 09/29/23 10:06

QC Source Sample: Non-SDG (A3I1199-01)

EPA 8260D

Acetone	41.4	10.0	20.0	ug/L	1	40.0	ND	104	39-160%	---	---	
Acrylonitrile	21.4	1.00	2.00	ug/L	1	20.0	ND	107	63-135%	---	---	
Benzene	23.2	0.100	0.200	ug/L	1	20.0	ND	116	79-120%	---	---	
Bromobenzene	20.9	0.250	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
Bromochloromethane	22.0	0.500	1.00	ug/L	1	20.0	ND	110	78-123%	---	---	
Bromodichloromethane	23.0	0.500	1.00	ug/L	1	20.0	ND	115	79-125%	---	---	
Bromoform	20.1	0.500	1.00	ug/L	1	20.0	ND	101	66-130%	---	---	
Bromomethane	16.7	5.00	5.00	ug/L	1	20.0	ND	84	53-141%	---	---	
2-Butanone (MEK)	40.7	5.00	10.0	ug/L	1	40.0	ND	102	56-143%	---	---	
n-Butylbenzene	24.0	0.500	1.00	ug/L	1	20.0	ND	120	75-128%	---	---	
sec-Butylbenzene	23.9	0.500	1.00	ug/L	1	20.0	ND	120	77-126%	---	---	
tert-Butylbenzene	23.7	0.500	1.00	ug/L	1	20.0	ND	118	78-124%	---	---	
Carbon disulfide	25.6	5.00	10.0	ug/L	1	20.0	ND	128	64-133%	---	---	
Carbon tetrachloride	26.1	0.500	1.00	ug/L	1	20.0	ND	130	72-136%	---	---	
Chlorobenzene	28.5	0.250	0.500	ug/L	1	20.0	7.73	104	80-120%	---	---	
Chloroethane	23.2	5.00	5.00	ug/L	1	20.0	ND	116	60-138%	---	---	
Chloroform	21.9	0.500	1.00	ug/L	1	20.0	ND	109	79-124%	---	---	
Chloromethane	20.9	2.50	5.00	ug/L	1	20.0	ND	104	50-139%	---	---	

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 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 2310970 - EPA 5030C						Water						
Matrix Spike (2310970-MS1)			Prepared: 09/28/23 17:19 Analyzed: 09/29/23 10:06									
QC Source Sample: Non-SDG (A311199-01)												
2-Chlorotoluene	22.5	0.500	1.00	ug/L	1	20.0	ND	112	79-122%	---	---	
4-Chlorotoluene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	78-122%	---	---	
Dibromochloromethane	20.6	0.500	1.00	ug/L	1	20.0	ND	103	74-126%	---	---	
1,2-Dibromo-3-chloropropane	19.4	2.50	5.00	ug/L	1	20.0	ND	97	62-128%	---	---	
1,2-Dibromoethane (EDB)	22.4	0.250	0.500	ug/L	1	20.0	ND	112	77-121%	---	---	
Dibromomethane	20.4	0.500	1.00	ug/L	1	20.0	ND	102	79-123%	---	---	
1,2-Dichlorobenzene	50.8	0.250	0.500	ug/L	1	20.0	28.0	114	80-120%	---	---	
1,3-Dichlorobenzene	23.9	0.250	0.500	ug/L	1	20.0	0.830	116	80-120%	---	---	
1,4-Dichlorobenzene	30.6	0.250	0.500	ug/L	1	20.0	10.9	98	79-120%	---	---	
Dichlorodifluoromethane	25.2	0.500	1.00	ug/L	1	20.0	ND	126	32-152%	---	---	
1,1-Dichloroethane	22.6	0.200	0.400	ug/L	1	20.0	ND	113	77-125%	---	---	
1,2-Dichloroethane (EDC)	21.3	0.200	0.400	ug/L	1	20.0	ND	107	73-128%	---	---	
1,1-Dichloroethene	24.8	0.100	0.200	ug/L	1	20.0	ND	124	71-131%	---	---	
cis-1,2-Dichloroethene	22.6	0.200	0.400	ug/L	1	20.0	ND	113	78-123%	---	---	
trans-1,2-Dichloroethene	22.6	0.200	0.400	ug/L	1	20.0	ND	113	75-124%	---	---	
1,2-Dichloropropane	21.6	0.250	0.500	ug/L	1	20.0	ND	108	78-122%	---	---	
1,3-Dichloropropane	22.4	0.500	1.00	ug/L	1	20.0	ND	112	80-120%	---	---	
2,2-Dichloropropane	17.9	0.500	1.00	ug/L	1	20.0	ND	89	60-139%	---	---	
1,1-Dichloropropene	25.0	0.500	1.00	ug/L	1	20.0	ND	125	79-125%	---	---	
cis-1,3-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0	ND	93	75-124%	---	---	
trans-1,3-Dichloropropene	19.9	0.500	1.00	ug/L	1	20.0	ND	99	73-127%	---	---	
Ethylbenzene	22.4	0.250	0.500	ug/L	1	20.0	ND	112	79-121%	---	---	
Hexachlorobutadiene	21.6	2.50	5.00	ug/L	1	20.0	ND	108	66-134%	---	---	
2-Hexanone	37.0	5.00	10.0	ug/L	1	40.0	ND	93	57-139%	---	---	
Isopropylbenzene	21.8	0.500	1.00	ug/L	1	20.0	ND	109	72-131%	---	---	
4-Isopropyltoluene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	77-127%	---	---	
Methylene chloride	21.3	5.00	10.0	ug/L	1	20.0	ND	107	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	41.1	5.00	10.0	ug/L	1	40.0	ND	103	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	28.5	0.500	1.00	ug/L	1	20.0	4.42	120	71-124%	---	---	
Naphthalene	21.3	2.50	5.00	ug/L	1	20.0	ND	106	61-128%	---	---	
n-Propylbenzene	22.9	0.250	0.500	ug/L	1	20.0	ND	114	76-126%	---	---	
Styrene	20.8	0.500	1.00	ug/L	1	20.0	ND	104	78-123%	---	---	
1,1,1,2-Tetrachloroethane	23.4	0.200	0.400	ug/L	1	20.0	ND	117	78-124%	---	---	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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6720 SW Macadam Ave. Suite 125

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0970 - EPA 5030C						Water						
Matrix Spike (23I0970-MS1)				Prepared: 09/28/23 17:19 Analyzed: 09/29/23 10:06								
QC Source Sample: Non-SDG (A3I1199-01)												
1,1,2,2-Tetrachloroethane	21.3	0.250	0.500	ug/L	1	20.0	ND	106	71-121%	---	---	
Tetrachloroethene (PCE)	23.0	0.100	0.200	ug/L	1	20.0	ND	115	74-129%	---	---	
Toluene	20.6	0.250	0.500	ug/L	1	20.0	ND	103	80-121%	---	---	
1,2,3-Trichlorobenzene	23.2	1.00	2.00	ug/L	1	20.0	ND	116	69-129%	---	---	
1,2,4-Trichlorobenzene	22.4	1.00	2.00	ug/L	1	20.0	ND	112	69-130%	---	---	
1,1,1-Trichloroethane	24.2	0.200	0.400	ug/L	1	20.0	ND	121	74-131%	---	---	
1,1,2-Trichloroethane	21.7	0.250	0.500	ug/L	1	20.0	ND	109	80-120%	---	---	
Trichloroethene (TCE)	21.6	0.100	0.200	ug/L	1	20.0	ND	108	79-123%	---	---	
Trichlorofluoromethane	26.0	1.00	2.00	ug/L	1	20.0	ND	130	65-141%	---	---	
1,2,3-Trichloropropane	21.3	0.500	1.00	ug/L	1	20.0	ND	107	73-122%	---	---	
1,2,4-Trimethylbenzene	24.6	0.500	1.00	ug/L	1	20.0	ND	123	76-124%	---	---	
1,3,5-Trimethylbenzene	24.4	0.500	1.00	ug/L	1	20.0	ND	122	75-124%	---	---	
Vinyl chloride	23.6	0.100	0.200	ug/L	1	20.0	ND	118	58-137%	---	---	
m,p-Xylene	43.5	0.500	1.00	ug/L	1	40.0	ND	109	80-121%	---	---	
o-Xylene	21.1	0.250	0.500	ug/L	1	20.0	ND	105	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

Matrix Spike Dup (23I0970-MSD1)

Prepared: 09/28/23 17:19 Analyzed: 09/29/23 10:34

T-02

QC Source Sample: Non-SDG (A3I1199-01)

Acrylonitrile	22.4	1.00	2.00	ug/L	1	20.0	ND	112	63-135%	5	30%	
Benzene	24.0	0.100	0.200	ug/L	1	20.0	ND	120	79-120%	3	30%	
Bromobenzene	21.4	0.250	0.500	ug/L	1	20.0	ND	107	80-120%	2	30%	
Bromochloromethane	22.3	0.500	1.00	ug/L	1	20.0	ND	112	78-123%	1	30%	
Bromodichloromethane	23.6	0.500	1.00	ug/L	1	20.0	ND	118	79-125%	2	30%	
Bromoform	20.8	0.500	1.00	ug/L	1	20.0	ND	104	66-130%	3	30%	
Bromomethane	17.7	5.00	5.00	ug/L	1	20.0	ND	88	53-141%	5	30%	
2-Butanone (MEK)	43.1	5.00	10.0	ug/L	1	40.0	ND	108	56-143%	6	30%	
n-Butylbenzene	24.9	0.500	1.00	ug/L	1	20.0	ND	124	75-128%	3	30%	
sec-Butylbenzene	24.6	0.500	1.00	ug/L	1	20.0	ND	123	77-126%	3	30%	
tert-Butylbenzene	24.4	0.500	1.00	ug/L	1	20.0	ND	122	78-124%	3	30%	
Carbon disulfide	26.8	5.00	10.0	ug/L	1	20.0	ND	134	64-133%	5	30%	Q-01

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Darwin Thomas, Business Development Director



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 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 2310970 - EPA 5030C						Water						
Matrix Spike Dup (2310970-MSD1)			Prepared: 09/28/23 17:19		Analyzed: 09/29/23 10:34		T-02					
QC Source Sample: Non-SDG (A3I1199-01)												
Carbon tetrachloride	26.8	0.500	1.00	ug/L	1	20.0	ND	134	72-136%	3	30%	
Chlorobenzene	29.4	0.250	0.500	ug/L	1	20.0	7.73	109	80-120%	3	30%	
Chloroethane	25.3	5.00	5.00	ug/L	1	20.0	ND	126	60-138%	9	30%	
Chloroform	22.5	0.500	1.00	ug/L	1	20.0	ND	113	79-124%	3	30%	
Chloromethane	22.9	2.50	5.00	ug/L	1	20.0	ND	114	50-139%	9	30%	
2-Chlorotoluene	23.1	0.500	1.00	ug/L	1	20.0	ND	116	79-122%	3	30%	
4-Chlorotoluene	23.8	0.500	1.00	ug/L	1	20.0	ND	119	78-122%	3	30%	
Dibromochloromethane	21.1	0.500	1.00	ug/L	1	20.0	ND	105	74-126%	2	30%	
1,2-Dibromo-3-chloropropane	20.4	2.50	5.00	ug/L	1	20.0	ND	102	62-128%	5	30%	
1,2-Dibromoethane (EDB)	22.6	0.250	0.500	ug/L	1	20.0	ND	113	77-121%	0.8	30%	
Dibromomethane	21.1	0.500	1.00	ug/L	1	20.0	ND	106	79-123%	3	30%	
1,2-Dichlorobenzene	52.1	0.250	0.500	ug/L	1	20.0	28.0	121	80-120%	2	30%	Q-01
1,3-Dichlorobenzene	24.7	0.250	0.500	ug/L	1	20.0	0.830	119	80-120%	3	30%	
1,4-Dichlorobenzene	31.5	0.250	0.500	ug/L	1	20.0	10.9	103	79-120%	3	30%	
Dichlorodifluoromethane	26.0	0.500	1.00	ug/L	1	20.0	ND	130	32-152%	3	30%	
1,1-Dichloroethane	23.2	0.200	0.400	ug/L	1	20.0	ND	116	77-125%	2	30%	
1,2-Dichloroethane (EDC)	21.8	0.200	0.400	ug/L	1	20.0	ND	109	73-128%	2	30%	
1,1-Dichloroethene	25.2	0.100	0.400	ug/L	1	20.0	ND	126	71-131%	2	30%	
cis-1,2-Dichloroethene	23.6	0.200	0.400	ug/L	1	20.0	ND	118	78-123%	4	30%	
trans-1,2-Dichloroethene	23.3	0.200	0.400	ug/L	1	20.0	ND	117	75-124%	3	30%	
1,2-Dichloropropane	22.1	0.250	0.500	ug/L	1	20.0	ND	111	78-122%	2	30%	
1,3-Dichloropropane	23.0	0.500	1.00	ug/L	1	20.0	ND	115	80-120%	3	30%	
2,2-Dichloropropane	18.1	0.500	1.00	ug/L	1	20.0	ND	90	60-139%	1	30%	
1,1-Dichloropropene	25.7	0.500	1.00	ug/L	1	20.0	ND	128	79-125%	3	30%	Q-01
cis-1,3-Dichloropropene	19.4	0.500	1.00	ug/L	1	20.0	ND	97	75-124%	4	30%	
trans-1,3-Dichloropropene	20.5	0.500	1.00	ug/L	1	20.0	ND	102	73-127%	3	30%	
Ethylbenzene	23.2	0.250	0.500	ug/L	1	20.0	ND	116	79-121%	4	30%	
Hexachlorobutadiene	22.1	2.50	5.00	ug/L	1	20.0	ND	110	66-134%	2	30%	
2-Hexanone	39.2	5.00	10.0	ug/L	1	40.0	ND	98	57-139%	6	30%	
Isopropylbenzene	22.6	0.500	1.00	ug/L	1	20.0	ND	113	72-131%	4	30%	
4-Isopropyltoluene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	77-127%	4	30%	
Methylene chloride	21.9	5.00	10.0	ug/L	1	20.0	ND	110	74-124%	3	30%	
4-Methyl-2-pentanone (MiBK)	43.5	5.00	10.0	ug/L	1	40.0	ND	109	67-130%	6	30%	

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Darwin Thomas, Business Development Director

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A3I1134 - 12 05 23 0629

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 2310970 - EPA 5030C						Water						
Matrix Spike Dup (2310970-MSD1)			Prepared: 09/28/23 17:19		Analyzed: 09/29/23 10:34		T-02					
QC Source Sample: Non-SDG (A3I1199-01)												
Methyl tert-butyl ether (MTBE)	29.8	0.500	1.00	ug/L	1	20.0	4.42	127	71-124%	4	30%	Q-01
Naphthalene	22.0	2.50	5.00	ug/L	1	20.0	ND	110	61-128%	3	30%	
n-Propylbenzene	23.4	0.250	0.500	ug/L	1	20.0	ND	117	76-126%	2	30%	
Styrene	21.5	0.500	1.00	ug/L	1	20.0	ND	107	78-123%	3	30%	
1,1,1,2-Tetrachloroethane	24.7	0.200	0.400	ug/L	1	20.0	ND	123	78-124%	5	30%	
1,1,2,2-Tetrachloroethane	21.9	0.250	0.500	ug/L	1	20.0	ND	110	71-121%	3	30%	
Tetrachloroethene (PCE)	23.6	0.100	0.200	ug/L	1	20.0	ND	118	74-129%	3	30%	
Toluene	21.4	0.250	0.500	ug/L	1	20.0	ND	107	80-121%	4	30%	
1,2,3-Trichlorobenzene	23.9	1.00	2.00	ug/L	1	20.0	ND	119	69-129%	3	30%	
1,2,4-Trichlorobenzene	23.2	1.00	2.00	ug/L	1	20.0	ND	116	69-130%	4	30%	
1,1,1-Trichloroethane	25.2	0.200	0.400	ug/L	1	20.0	ND	126	74-131%	4	30%	
1,1,2-Trichloroethane	22.3	0.250	0.500	ug/L	1	20.0	ND	112	80-120%	3	30%	
Trichloroethene (TCE)	22.4	0.100	0.200	ug/L	1	20.0	ND	111	79-123%	3	30%	
Trichlorofluoromethane	26.7	1.00	2.00	ug/L	1	20.0	ND	134	65-141%	3	30%	
1,2,3-Trichloropropane	21.9	0.500	1.00	ug/L	1	20.0	ND	109	73-122%	3	30%	
1,2,4-Trimethylbenzene	25.3	0.500	1.00	ug/L	1	20.0	ND	126	76-124%	3	30%	Q-01
1,3,5-Trimethylbenzene	25.0	0.500	1.00	ug/L	1	20.0	ND	125	75-124%	2	30%	Q-01
Vinyl chloride	24.7	0.100	0.200	ug/L	1	20.0	ND	123	58-137%	5	30%	
m,p-Xylene	45.0	0.500	1.00	ug/L	1	40.0	ND	112	80-121%	3	30%	
o-Xylene	21.8	0.250	0.500	ug/L	1	20.0	ND	109	78-122%	3	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0951 - EPA 5030C						Water						
Blank (23I0951-BLK1)			Prepared: 09/28/23 11:53		Analyzed: 09/28/23 15:39							
EPA 8260D SIM												
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
LCS (23I0951-BS1)						Prepared: 09/28/23 11:53		Analyzed: 09/28/23 13:44				
EPA 8260D SIM												
1,1-Dichloroethene	0.219	0.0100	0.0200	ug/L	1	0.200	---	109	80-120%	---	---	
cis-1,2-Dichloroethene	0.214	0.0100	0.0200	ug/L	1	0.200	---	107	80-120%	---	---	
trans-1,2-Dichloroethene	0.218	0.0100	0.0200	ug/L	1	0.200	---	109	80-120%	---	---	
Trichloroethene (TCE)	0.208	0.0100	0.0200	ug/L	1	0.200	---	104	80-120%	---	---	
Vinyl chloride	0.208	0.0100	0.0200	ug/L	1	0.200	---	104	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
Duplicate (23I0951-DUP1)						Prepared: 09/28/23 11:53		Analyzed: 09/28/23 16:33				
QC Source Sample: GS-091423-22 (A3I1134-01)												
EPA 8260D SIM												
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.500	0.500	ug/L	25	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		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 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0951 - EPA 5030C						Water						
Matrix Spike (23I0951-MS1)			Prepared: 09/28/23 11:53 Analyzed: 09/28/23 17:00									
QC Source Sample: GS-091423-22 (A3I1134-01)												
EPA 8260D SIM												
1,1-Dichloroethene	5.54	0.250	0.500	ug/L	25	5.00	ND	111	71-131%	---	---	
cis-1,2-Dichloroethene	5.30	0.250	0.500	ug/L	25	5.00	ND	106	78-123%	---	---	
trans-1,2-Dichloroethene	5.48	0.250	0.500	ug/L	25	5.00	ND	110	75-124%	---	---	
Trichloroethene (TCE)	4.80	0.250	0.500	ug/L	25	5.00	ND	96	79-123%	---	---	
Vinyl chloride	5.42	0.250	0.500	ug/L	25	5.00	ND	108	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0512 - EPA 3511 (Bottle Extraction)						Water						
Blank (23I0512-BLK1)			Prepared: 09/18/23 07:06		Analyzed: 09/18/23 10:14							
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: 99 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		112 %		80-132 %		"						

LCS (23I0512-BS1)

Prepared: 09/18/23 07:06 Analyzed: 09/18/23 10:46

EPA 8270E LVI

Acenaphthene	1.67	0.0160	0.0320	ug/L	1	1.60	---	104	80-120%	---	---
Acenaphthylene	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	80-124%	---	---
Anthracene	1.73	0.0160	0.0320	ug/L	1	1.60	---	108	80-123%	---	---
Benz(a)anthracene	1.83	0.00800	0.0160	ug/L	1	1.60	---	114	80-122%	---	---
Benzo(a)pyrene	1.83	0.00800	0.0160	ug/L	1	1.60	---	115	80-129%	---	---
Benzo(b+j)fluoranthene(s)	1.79	0.00800	0.0160	ug/L	1	1.60	---	112	80-124%	---	---
Benzo(k)fluoranthene	1.82	0.00800	0.0160	ug/L	1	1.60	---	114	80-125%	---	---
Benzo(g,h,i)perylene	1.69	0.0160	0.0320	ug/L	1	1.60	---	106	80-120%	---	---

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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 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 2310512 - EPA 3511 (Bottle Extraction)						Water						
LCS (2310512-BS1)						Prepared: 09/18/23 07:06 Analyzed: 09/18/23 10:46						
Chrysene	1.71	0.00800	0.0160	ug/L	1	1.60	---	107	80-120%	---	---	
Dibenz(a,h)anthracene	1.72	0.00800	0.0160	ug/L	1	1.60	---	108	80-120%	---	---	
Fluoranthene	1.93	0.0160	0.0320	ug/L	1	1.60	---	121	80-126%	---	---	
Fluorene	1.80	0.0160	0.0320	ug/L	1	1.60	---	112	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.73	0.00800	0.0160	ug/L	1	1.60	---	108	80-121%	---	---	
1-Methylnaphthalene	1.61	0.0320	0.0640	ug/L	1	1.60	---	101	53-148%	---	---	
2-Methylnaphthalene	1.55	0.0320	0.0640	ug/L	1	1.60	---	97	48-150%	---	---	
Naphthalene	1.70	0.0320	0.0640	ug/L	1	1.60	---	106	78-120%	---	---	
Phenanthrene	1.67	0.0320	0.0640	ug/L	1	1.60	---	104	80-120%	---	---	
Pyrene	1.93	0.0160	0.0320	ug/L	1	1.60	---	120	80-125%	---	---	
Carbazole	1.74	0.0160	0.0320	ug/L	1	1.60	---	109	65-141%	---	---	
Dibenzofuran	1.68	0.0160	0.0320	ug/L	1	1.60	---	105	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr) Recovery: 97 % Limits: 78-134 % Dilution: 1x												
Benzo(a)pyrene-d12 (Surr) 115 % 80-132 % "												

LCS Dup (2310512-BSD1)				Prepared: 09/18/23 07:06 Analyzed: 09/18/23 11:19								Q-19
EPA 8270E LVI												
Acenaphthene	1.70	0.0160	0.0320	ug/L	1	1.60	---	106	80-120%	2	30%	
Acenaphthylene	1.73	0.0160	0.0320	ug/L	1	1.60	---	108	80-124%	1	30%	
Anthracene	1.77	0.0160	0.0320	ug/L	1	1.60	---	111	80-123%	3	30%	
Benz(a)anthracene	1.86	0.00800	0.0160	ug/L	1	1.60	---	116	80-122%	2	30%	
Benzo(a)pyrene	1.87	0.00800	0.0160	ug/L	1	1.60	---	117	80-129%	2	30%	
Benzo(b+j)fluoranthene(s)	1.80	0.00800	0.0160	ug/L	1	1.60	---	113	80-124%	0.3	30%	
Benzo(k)fluoranthene	1.90	0.00800	0.0160	ug/L	1	1.60	---	119	80-125%	4	30%	
Benzo(g,h,i)perylene	1.79	0.0160	0.0320	ug/L	1	1.60	---	112	80-120%	6	30%	
Chrysene	1.75	0.00800	0.0160	ug/L	1	1.60	---	110	80-120%	2	30%	
Dibenz(a,h)anthracene	1.77	0.00800	0.0160	ug/L	1	1.60	---	110	80-120%	2	30%	
Fluoranthene	1.97	0.0160	0.0320	ug/L	1	1.60	---	123	80-126%	2	30%	
Fluorene	1.83	0.0160	0.0320	ug/L	1	1.60	---	114	77-127%	2	30%	
Indeno(1,2,3-cd)pyrene	1.80	0.00800	0.0160	ug/L	1	1.60	---	112	80-121%	4	30%	
1-Methylnaphthalene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	53-148%	6	30%	
2-Methylnaphthalene	1.68	0.0320	0.0640	ug/L	1	1.60	---	105	48-150%	8	30%	
Naphthalene	1.75	0.0320	0.0640	ug/L	1	1.60	---	110	78-120%	3	30%	
Phenanthrene	1.70	0.0320	0.0640	ug/L	1	1.60	---	106	80-120%	2	30%	

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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 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0512 - EPA 3511 (Bottle Extraction)						Water						
LCS Dup (23I0512-BSD1)			Prepared: 09/18/23 07:06 Analyzed: 09/18/23 11:19								Q-19	
Pyrene	1.98	0.0160	0.0320	ug/L	1	1.60	---	124	80-125%	3	30%	
Carbazole	1.71	0.0160	0.0320	ug/L	1	1.60	---	107	65-141%	2	30%	
Dibenzofuran	1.70	0.0160	0.0320	ug/L	1	1.60	---	107	76-121%	1	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 99 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		113 %		80-132 %		"						

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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 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1134 - 12 05 23 0629****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 23I0737 - EPA 3015A						Water						
Blank (23I0737-BLK1)			Prepared: 09/22/23 10:19		Analyzed: 09/23/23 02:33							
EPA 6020B												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	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	---	---	---	---	---	---	

LCS (23I0737-BS1)

Prepared: 09/22/23 10:19 Analyzed: 09/23/23 02:38

EPA 6020B												
Aluminum	2810	25.0	50.0	ug/L	1	2780	---	101	80-120%	---	---	
Antimony	27.5	0.500	1.00	ug/L	1	27.8	---	99	80-120%	---	---	
Arsenic	52.6	0.500	1.00	ug/L	1	55.6	---	95	80-120%	---	---	
Barium	55.7	1.00	2.00	ug/L	1	55.6	---	100	80-120%	---	---	
Beryllium	26.5	0.100	0.200	ug/L	1	27.8	---	95	80-120%	---	---	
Cadmium	52.8	0.100	0.200	ug/L	1	55.6	---	95	80-120%	---	---	
Chromium	55.2	1.00	2.00	ug/L	1	55.6	---	99	80-120%	---	---	
Copper	57.1	1.00	2.00	ug/L	1	55.6	---	103	80-120%	---	---	
Iron	2890	25.0	50.0	ug/L	1	2780	---	104	80-120%	---	---	
Lead	54.5	0.110	0.200	ug/L	1	55.6	---	98	80-120%	---	---	
Manganese	55.7	0.500	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Mercury	1.05	0.0400	0.0800	ug/L	1	1.11	---	95	80-120%	---	---	

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Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1134 - 12 05 23 0629**

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 23I0737 - EPA 3015A						Water						
LCS (23I0737-BS1)				Prepared: 09/22/23 10:19		Analyzed: 09/23/23 02:38						
Nickel	56.8	1.00	2.00	ug/L	1	55.6	---	102	80-120%	---	---	
Selenium	26.1	0.500	1.00	ug/L	1	27.8	---	94	80-120%	---	---	
Silver	29.8	0.100	0.200	ug/L	1	27.8	---	107	80-120%	---	---	
Thallium	26.7	0.100	0.200	ug/L	1	27.8	---	96	80-120%	---	---	
Vanadium	55.2	1.00	2.00	ug/L	1	55.6	---	99	80-120%	---	---	
Zinc	55.0	2.00	4.00	ug/L	1	55.6	---	99	80-120%	---	---	
Duplicate (23I0737-DUP1)				Prepared: 09/22/23 10:19		Analyzed: 09/23/23 02:48						
QC Source Sample: Non-SDG (A3I1089-01)												
Aluminum	54.4	25.0	50.0	ug/L	1	---	66.5	---	---	20	20%	
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	1.21	0.500	1.00	ug/L	1	---	1.14	---	---	7	20%	
Barium	55.4	1.00	2.00	ug/L	1	---	54.3	---	---	2	20%	
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Cadmium	0.106	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	J
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Copper	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Iron	7740	25.0	50.0	ug/L	1	---	7630	---	---	1	20%	
Lead	0.181	0.110	0.200	ug/L	1	---	0.161	---	---	12	20%	J
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	254	1.00	2.00	ug/L	1	---	253	---	---	0.7	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%	
Zinc	8.23	2.00	4.00	ug/L	1	---	8.69	---	---	6	20%	
Duplicate (23I0737-DUP2)				Prepared: 09/22/23 10:19		Analyzed: 09/25/23 19:44						
QC Source Sample: Non-SDG (A3I1089-01RE1)												
Manganese	5720	5.00	10.0	ug/L	10	---	5680	---	---	0.8	20%	Q-16
Vanadium	1080	10.0	20.0	ug/L	10	---	1090	---	---	0.8	20%	Q-16

Matrix Spike (23I0737-MS1)

Prepared: 09/22/23 10:19 Analyzed: 09/23/23 02:53

QC Source Sample: Non-SDG (A3I1089-01)

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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 3Q 2023 Perf. Mon

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311134 - 12 05 23 0629

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 2310737 - EPA 3015A						Water						
Matrix Spike (2310737-MS1)			Prepared: 09/22/23 10:19 Analyzed: 09/23/23 02:53									
QC Source Sample: Non-SDG (A311089-01)												
EPA 6020B												
Aluminum	2840	25.0	50.0	ug/L	1	2780	66.5	100	75-125%	---	---	
Antimony	29.3	0.500	1.00	ug/L	1	27.8	ND	106	75-125%	---	---	
Arsenic	55.4	0.500	1.00	ug/L	1	55.6	1.14	98	75-125%	---	---	
Barium	110	1.00	2.00	ug/L	1	55.6	54.3	101	75-125%	---	---	
Beryllium	27.2	0.100	0.200	ug/L	1	27.8	ND	98	75-125%	---	---	
Cadmium	55.5	0.100	0.200	ug/L	1	55.6	ND	100	75-125%	---	---	
Chromium	55.7	1.00	2.00	ug/L	1	55.6	ND	100	75-125%	---	---	
Copper	56.8	1.00	2.00	ug/L	1	55.6	ND	102	75-125%	---	---	
Iron	10500	25.0	50.0	ug/L	1	2780	7630	103	75-125%	---	---	
Lead	54.2	0.110	0.200	ug/L	1	55.6	0.161	97	75-125%	---	---	
Manganese	5300	0.500	1.00	ug/L	1	55.6	5280	45	75-125%	---	---	E, Q-65
Mercury	1.08	0.0400	0.0800	ug/L	1	1.11	ND	97	75-125%	---	---	
Nickel	310	1.00	2.00	ug/L	1	55.6	253	103	75-125%	---	---	
Selenium	27.8	0.500	1.00	ug/L	1	27.8	ND	100	75-125%	---	---	
Silver	30.4	0.100	0.200	ug/L	1	27.8	ND	109	75-125%	---	---	
Thallium	27.0	0.100	0.200	ug/L	1	27.8	ND	97	75-125%	---	---	
Vanadium	1050	1.00	2.00	ug/L	1	55.6	1000	93	75-125%	---	---	E
Zinc	63.2	2.00	4.00	ug/L	1	55.6	8.69	98	75-125%	---	---	

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Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0817 - Lachat Micro Dist - aqueous						Water						
Blank (23I0817-BLK1)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 15:58									
<u>EPA 335.4</u>												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23I0817-BS1)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 16:00									
<u>EPA 335.4</u>												
Total Cyanide	0.249	0.00500	0.00500	mg/L	1	0.250	---	100	90-110%	---	---	
Duplicate (23I0817-DUP2)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 17:40									
<u>QC Source Sample: Non-SDG (A3I1074-12RE1)</u>												
Total Cyanide	2.60	0.0500	0.0500	mg/L	10	---	2.56	---	---	2	10%	Q-16
Matrix Spike (23I0817-MS1)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 16:50									
<u>QC Source Sample: Non-SDG (A3I1199-01)</u>												
<u>EPA 335.4</u>												
Total Cyanide	0.298	0.00500	0.00500	mg/L	1	0.250	0.0383	104	90-110%	---	---	
Matrix Spike (23I0817-MS3)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 17:42									
<u>QC Source Sample: Non-SDG (A3I1074-12RE1)</u>												
<u>EPA 335.4</u>												
Total Cyanide	2.75	0.0500	0.0500	mg/L	10	0.250	2.56	76	90-110%	---	---	Q-03, Q-16
Matrix Spike Dup (23I0817-MSD1)			Prepared: 09/26/23 08:54 Analyzed: 09/26/23 16:52									
<u>QC Source Sample: Non-SDG (A3I1199-01)</u>												
Total Cyanide	0.290	0.00500	0.00500	mg/L	1	0.250	0.0383	101	90-110%	3	10%	

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Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 23I0791 - Method Prep: Aq						Water						
Blank (23I0791-BLK1)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:03									
<u>D6888-09</u>												
Available Cyanide	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
LCS (23I0791-BS1)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:05									
<u>D6888-09</u>												
Available Cyanide	0.0283	0.00100	0.00200	mg/L	1	0.0250	---	113	90-117%	---	---	
Matrix Spike (23I0791-MS1)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:31									
<u>QC Source Sample: Non-SDG (A3I1199-01)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0253	0.00101	0.00201	mg/L	1	0.0251	ND	101	82-130%	---	---	
Matrix Spike (23I0791-MS2)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:55									
<u>QC Source Sample: Non-SDG (A3I1285-02)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0200	0.00101	0.00201	mg/L	1	0.0251	ND	80	82-130%	---	---	Q-02
Matrix Spike Dup (23I0791-MSD1)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:32									
<u>QC Source Sample: Non-SDG (A3I1199-01)</u>												
Available Cyanide	0.0259	0.00101	0.00201	mg/L	1	0.0251	ND	103	82-130%	2	11%	
Matrix Spike Dup (23I0791-MSD2)			Prepared: 09/25/23 11:23 Analyzed: 09/25/23 15:56									
<u>QC Source Sample: Non-SDG (A3I1285-02)</u>												
Available Cyanide	0.0195	0.00101	0.00201	mg/L	1	0.0251	ND	78	82-130%	2	11%	Q-02

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Project Manager: John Renda

Report ID:

A3I1134 - 12 05 23 0629

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 2310927 - Microdiffusion						Water						
Blank (2310927-BLK1)			Prepared: 09/28/23 09:24 Analyzed: 09/28/23 15:50									
<u>D4282-02</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (2310927-BS1)			Prepared: 09/28/23 09:24 Analyzed: 09/28/23 15:50									
<u>D4282-02</u>												
Free Cyanide	0.0625	0.00250	0.00500	mg/L	1	0.0667	---	94	74-120%	---	---	
LCS Dup (2310927-BSD1)			Prepared: 09/28/23 09:24 Analyzed: 09/28/23 15:56									
<u>D4282-02</u>												
Free Cyanide	0.0642	0.00250	0.00500	mg/L	1	0.0667	---	96	74-120%	3	20%	
Matrix Spike (2310927-MS1)			Prepared: 09/28/23 09:24 Analyzed: 09/28/23 16:01									
<u>QC Source Sample: Non-SDG (A311199-01)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0627	0.00250	0.00500	mg/L	1	0.0667	ND	94	74-120%	---	---	
Matrix Spike Dup (2310927-MSD1)			Prepared: 09/28/23 09:24 Analyzed: 09/28/23 16:02									
<u>QC Source Sample: Non-SDG (A311199-01)</u>												
Free Cyanide	0.0722	0.00250	0.00500	mg/L	1	0.0667	ND	108	74-120%	14	20%	

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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: 2310865							
A3I1134-01	WG	NWTPH-Dx	09/14/23 15:15	09/27/23 06:52	1020mL/5mL	1000mL/5mL	0.98

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: 2310970							
A3I1134-01RE2	WG	NWTPH-Gx (MS)	09/14/23 15:15	09/28/23 17:23	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: 2310825							
A3I1134-01	WG	EPA 8260D	09/14/23 15:15	09/26/23 10:00	5mL/5mL	5mL/5mL	1.00
A3I1134-02	W	EPA 8260D	09/14/23 16:15	09/26/23 10:00	5mL/5mL	5mL/5mL	1.00
Batch: 2310970							
A3I1134-01RE2	WG	EPA 8260D	09/14/23 15:15	09/28/23 17:23	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260D SIM

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 2310951							
A3I1134-01	WG	EPA 8260D SIM	09/14/23 15:15	09/28/23 11:53	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: 2310512							
A3I1134-01	WG	EPA 8270E LVI	09/14/23 15:15	09/18/23 07:06	117.14mL/5mL	125mL/5mL	1.07
A3I1134-01RE1	WG	EPA 8270E LVI	09/14/23 15:15	09/18/23 07:06	117.14mL/5mL	125mL/5mL	1.07

Total Metals by EPA 6020B (ICPMS)

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Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1134 - 12 05 23 0629****SAMPLE PREPARATION INFORMATION****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: 23I0737							
A3I1134-01	WG	EPA 6020B	09/14/23 15:15	09/22/23 10:19	45mL/50mL	45mL/50mL	1.00
A3I1134-01RE2	WG	EPA 6020B	09/14/23 15:15	09/22/23 10:19	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
Batch: 23I0817							
A3I1134-01RE1	WG	EPA 335.4	09/14/23 15:15	09/26/23 08:54	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: 23I0791							
A3I1134-01	WG	D6888-09	09/14/23 15:15	09/25/23 11:23	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: 23I0927							
A3I1134-01	WG	D4282-02	09/14/23 15:15	09/28/23 09:24	3mL/3mL	3mL/3mL	1.00

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QUALIFIER DEFINITIONS

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

Apex Laboratories

- A-01** Due to spiking error, not all Batch QC samples were reported. The batch is accepted based on the recoveries of the Blank Spike (BS).
- E** Estimated Value. The result is above the calibration range of the instrument.
- F-12** The result for this hydrocarbon range is primarily due to the presence of individual analyte peaks in the quantitation range. No fuel pattern detected.
- 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-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-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-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +10%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +18%. 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 +22%. 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 +23%. 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 +26%. 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 +4%. 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 +41%. 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 +6%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -15%. The results are reported as Estimated Values.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

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A3I1134 - 12 05 23 0629

- Q-65** Spike recovery is estimated due to the high analyte concentration of the source sample.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- T-02** This Batch QC sample was analyzed outside of the method specified 12 hour analysis window. Results are estimated.

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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.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**

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

Project Manager: **John Renda**

Report ID:

A3I1134 - 12 05 23 0629

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.

Apex Laboratories

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APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA

Element WO#: A3 I1134

Project/Project #: Gasco - MGP only Mon. wells 3Q 2023 performance monitoring 000029-02.84 T-01.001E

Delivery Info:

Date/time received: 9/15/23 @ 826 By: EST

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

Cooler Inspection Date/time inspected: 9/15/23 @ 1015 By: EST

Chain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.3						

Received on ice? (Y/N) ☒ Y ☐ NTemp. blanks? (Y/N) ☒ Y ☐ N

Ice type: (Gel/Real/Other) Real

Condition (In/Out): In

Cooler out of temp? (Y/N) ☒ Y 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: 9/15/23 @ 1030 By: JS

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: JS 9/15/23

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☒ NA ☐ Strip ID: A23A348 ☒

Comments: pH 9 for Cu pH 10

Additional information: TB# 3379

Labeled by: JS

Witness: ARW

Cooler Inspected by: JS

Form Y-003 R-01

Apex Laboratories

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