



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: A311542 - 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 A311542, which was received by the laboratory on 9/28/2023 at 8:22:00AM.

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](mailto: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

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler 1.8 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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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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**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:****A3I1542 - 12 05 23 0752****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS-092723-35	A3I1542-01	Water	09/27/23 10:25	09/28/23 08:22
GS-092723-36	A3I1542-02	Water	09/27/23 11:20	09/28/23 08:22
TB-092723	A3I1542-03	Water	09/27/23 11:45	09/28/23 08:22

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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:****A3I1542 - 12 05 23 0752****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-092723-35 (A3I1542-01)				Matrix: Water		Batch: 23J0224		
Diesel	279	100	200	ug/L	1	10/06/23 20:26	NWTPH-Dx	F-15
Oil	299	200	400	ug/L	1	10/06/23 20:26	NWTPH-Dx	J
Surrogate: o-Terphenyl (Surr)		Recovery: 100 %		Limits: 50-150 %	1	10/06/23 20:26	NWTPH-Dx	
GS-092723-36 (A3I1542-02)				Matrix: Water		Batch: 23J0224		
Diesel	2170	96.2	192	ug/L	1	10/06/23 20:50	NWTPH-Dx	
Oil	ND	192	385	ug/L	1	10/06/23 20:50	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 108 %		Limits: 50-150 %	1	10/06/23 20:50	NWTPH-Dx	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1542 - 12 05 23 0752

## 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
<b>GS-092723-35 (A3I1542-01)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0169</b>			
Gasoline Range Organics	ND	50.0	100	ug/L	1	10/05/23 22:49	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 105 %	Limits: 50-150 %	1	10/05/23 22:49	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		109 %	50-150 %	1	10/05/23 22:49	NWTPH-Gx (MS)		
<b>GS-092723-36 (A3I1542-02RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0216</b>			
Gasoline Range Organics	490	50.0	100	ug/L	1	10/06/23 12:54	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 107 %	Limits: 50-150 %	1	10/06/23 12:54	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		108 %	50-150 %	1	10/06/23 12:54	NWTPH-Gx (MS)		

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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:****A311542 - 12 05 23 0752****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GS-092723-35 (A311542-01)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0169</b>			
Acetone	ND	10.0	20.0	ug/L	1	10/05/23 22:49	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	10/05/23 22:49	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/05/23 22:49	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/05/23 22:49	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/05/23 22:49	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/05/23 22:49	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/05/23 22:49	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/05/23 22:49	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/05/23 22:49	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/05/23 22:49	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/05/23 22:49	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:****A311542 - 12 05 23 0752**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GS-092723-35 (A311542-01)</b>				<b>Matrix: Water</b>		<b>Batch: 23J0169</b>		
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	10/05/23 22:49	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/05/23 22:49	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/05/23 22:49	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	10/05/23 22:49	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	10/05/23 22:49	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/05/23 22:49	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/05/23 22:49	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/05/23 22:49	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/05/23 22:49	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	10/05/23 22:49	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/05/23 22:49	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	10/05/23 22:49	EPA 8260D	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1542 - 12 05 23 0752

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GS-092723-35 (A3I1542-01)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0169</b>			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %	Limits: 80-120 %	1	10/05/23 22:49	EPA 8260D		
Toluene-d8 (Surr)		101 %	80-120 %	1	10/05/23 22:49	EPA 8260D		
4-Bromofluorobenzene (Surr)		97 %	80-120 %	1	10/05/23 22:49	EPA 8260D		
<b>GS-092723-36 (A3I1542-02RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0216</b>			
Acetone	ND	10.0	20.0	ug/L	1	10/06/23 12:54	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/06/23 12:54	EPA 8260D	
<b>Benzene</b>	<b>0.910</b>	0.100	0.200	ug/L	1	10/06/23 12:54	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/06/23 12:54	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/06/23 12:54	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/06/23 12:54	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/06/23 12:54	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/06/23 12:54	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/06/23 12:54	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
<b>GS-092723-36 (A311542-02RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0216</b>			
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/06/23 12:54	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/06/23 12:54	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/06/23 12:54	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/06/23 12:54	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
<b>Ethylbenzene</b>	<b>0.750</b>	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	10/06/23 12:54	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/06/23 12:54	EPA 8260D	
<b>Isopropylbenzene</b>	<b>0.580</b>	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	J
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/06/23 12:54	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	10/06/23 12:54	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
<b>Naphthalene</b>	<b>15.1</b>	2.50	5.00	ug/L	1	10/06/23 12:54	EPA 8260D	
<b>n-Propylbenzene</b>	<b>0.350</b>	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	J
Styrene	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/06/23 12:54	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/06/23 12:54	EPA 8260D	
<b>Toluene</b>	<b>0.550</b>	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	J
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/06/23 12:54	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/06/23 12:54	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/06/23 12:54	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/06/23 12:54	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/06/23 12:54	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
<b>1,2,4-Trimethylbenzene</b>	<b>4.81</b>	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**Anchor QEA, LLC**

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1542 - 12 05 23 0752**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GS-092723-36 (A3I1542-02RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0216</b>			
<b>1,3,5-Trimethylbenzene</b>	<b>1.78</b>	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	10/06/23 12:54	EPA 8260D	
<b>m,p-Xylene</b>	<b>1.29</b>	0.500	1.00	ug/L	1	10/06/23 12:54	EPA 8260D	
<b>o-Xylene</b>	<b>1.28</b>	0.250	0.500	ug/L	1	10/06/23 12:54	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/06/23 12:54</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/06/23 12:54</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/06/23 12:54</i>	<i>EPA 8260D</i>	
<b>TB-092723 (A3I1542-03)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0169</b>			
Acetone	ND	10.0	20.0	ug/L	1	10/05/23 20:30	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	10/05/23 20:30	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	10/05/23 20:30	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	10/05/23 20:30	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	10/05/23 20:30	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	10/05/23 20:30	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125  
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A311542 - 12 05 23 0752****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TB-092723 (A311542-03)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0169</b>			
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	10/05/23 20:30	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	10/05/23 20:30	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	10/05/23 20:30	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/05/23 20:30	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	10/05/23 20:30	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	10/05/23 20:30	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	10/05/23 20:30	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	10/05/23 20:30	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	10/05/23 20:30	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	10/05/23 20:30	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	10/05/23 20:30	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	10/05/23 20:30	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	10/05/23 20:30	EPA 8260D	

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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:****A3I1542 - 12 05 23 0752**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>TB-092723 (A3I1542-03)</b>		<b>Matrix: Water</b>			<b>Batch: 23J0169</b>			
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	10/05/23 20:30	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
Vinyl chloride	ND	0.100	0.200	ug/L	1	10/05/23 20:30	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	10/05/23 20:30	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	10/05/23 20:30	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/05/23 20:30</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/05/23 20:30</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/05/23 20:30</i>	<i>EPA 8260D</i>	

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## ANALYTICAL REPORT

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ORELAP ID: OR100062

## Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1542 - 12 05 23 0752

## 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-092723-35 (A3I1542-01)		Matrix: Water			Batch: 23I0997			
Acenaphthene	ND	0.0162	0.0324	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Acenaphthylene	0.249	0.0162	0.0324	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Anthracene	0.185	0.0162	0.0324	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00809	0.0162	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00809	0.0162	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	0.00809	0.0162	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00809	0.0162	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0162	0.0324	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Chrysene	ND	0.00809	0.0162	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00809	0.0162	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Fluoranthene	ND	0.0162	0.0324	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Fluorene	ND	0.0556	0.0556	ug/L	1	10/02/23 10:45	EPA 8270E LVI	R-02
Indeno(1,2,3-cd)pyrene	ND	0.00809	0.0162	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0324	0.0647	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0324	0.0647	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Naphthalene	ND	0.0324	0.0647	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Phenanthrene	ND	0.0324	0.0647	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Pyrene	ND	0.0162	0.0324	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Dibenzofuran	ND	0.0162	0.0324	ug/L	1	10/02/23 10:45	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 90 %		Limits: 78-134 %	1	10/02/23 10:45	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		117 %		80-132 %	1	10/02/23 10:45	EPA 8270E LVI	
GS-092723-36 (A3I1542-02)		Matrix: Water			Batch: 23I0997			
Acenaphthene	129	2.25	4.51	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Acenaphthylene	12.8	2.25	4.51	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Anthracene	8.68	2.25	4.51	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Benz(a)anthracene	ND	1.13	2.25	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Benzo(a)pyrene	ND	1.13	2.25	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Benzo(b+j)fluoranthene(s)	ND	1.13	2.25	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	1.13	2.25	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	2.25	4.51	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Chrysene	ND	1.13	2.25	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	1.13	2.25	ug/L	100	10/02/23 11:17	EPA 8270E LVI	

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# ANALYTICAL REPORT

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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:

A3I1542 - 12 05 23 0752

## 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-092723-36 (A3I1542-02)		Matrix: Water			Batch: 23I0997			
Fluoranthene	17.0	2.25	4.51	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Fluorene	32.5	2.25	4.51	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	1.13	2.25	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
1-Methylnaphthalene	58.0	4.51	9.01	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
2-Methylnaphthalene	27.0	4.51	9.01	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Naphthalene	10.9	4.51	9.01	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Phenanthrene	54.9	4.51	9.01	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Pyrene	17.6	2.25	4.51	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Dibenzofuran	4.51	2.25	4.51	ug/L	100	10/02/23 11:17	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: %		Limits: 78-134 %	100	10/02/23 11:17	EPA 8270E LVI	S-01
Benzo(a)pyrene-d12 (Surr)		110 %		80-132 %	100	10/02/23 11:17	EPA 8270E LVI	S-05

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## ANALYTICAL REPORT

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125  
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1542 - 12 05 23 0752**

## ANALYTICAL SAMPLE RESULTS

## Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092723-35 (A3I1542-01)		Matrix: Water						
Batch: 23J0301								
Aluminum	ND	25.0	50.0	ug/L	1	10/09/23 23:41	EPA 6020B	J
Antimony	ND	0.500	1.00	ug/L	1	10/09/23 23:41	EPA 6020B	
Arsenic	0.556	0.500	1.00	ug/L	1	10/09/23 23:41	EPA 6020B	
Barium	5.71	1.00	2.00	ug/L	1	10/09/23 23:41	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	10/09/23 23:41	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	10/09/23 23:41	EPA 6020B	J
Calcium	28500	300	600	ug/L	1	10/09/23 23:41	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	10/09/23 23:41	EPA 6020B	
Copper	1.23	1.00	2.00	ug/L	1	10/09/23 23:41	EPA 6020B	
Iron	269	25.0	50.0	ug/L	1	10/09/23 23:41	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	10/09/23 23:41	EPA 6020B	
Manganese	1150	0.500	1.00	ug/L	1	10/09/23 23:41	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	10/09/23 23:41	EPA 6020B	
Nickel	6.03	1.00	2.00	ug/L	1	10/09/23 23:41	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	10/09/23 23:41	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	10/09/23 23:41	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	10/09/23 23:41	EPA 6020B	
Zinc	5.25	2.00	4.00	ug/L	1	10/09/23 23:41	EPA 6020B	
GS-092723-35 (A3I1542-01RE1)		Matrix: Water						
Batch: 23J0301								
Selenium	ND	0.500	1.00	ug/L	1	10/10/23 12:21	EPA 6020B	
GS-092723-36 (A3I1542-02)		Matrix: Water						
Batch: 23J0301								
Aluminum	ND	25.0	50.0	ug/L	1	10/09/23 23:46	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	10/09/23 23:46	EPA 6020B	
Arsenic	6.38	0.500	1.00	ug/L	1	10/09/23 23:46	EPA 6020B	
Barium	96.2	1.00	2.00	ug/L	1	10/09/23 23:46	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	10/09/23 23:46	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	10/09/23 23:46	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	10/09/23 23:46	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	10/09/23 23:46	EPA 6020B	

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1542 - 12 05 23 0752

## ANALYTICAL SAMPLE RESULTS

## Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-092723-36 (A3I1542-02)		Matrix: Water						
Iron	25300	25.0	50.0	ug/L	1	10/09/23 23:46	EPA 6020B	
Lead	0.135	0.110	0.200	ug/L	1	10/09/23 23:46	EPA 6020B	J
Manganese	1710	0.500	1.00	ug/L	1	10/09/23 23:46	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	10/09/23 23:46	EPA 6020B	
Nickel	2.15	1.00	2.00	ug/L	1	10/09/23 23:46	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	10/09/23 23:46	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	10/09/23 23:46	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	10/09/23 23:46	EPA 6020B	
Zinc	2.41	2.00	4.00	ug/L	1	10/09/23 23:46	EPA 6020B	J
GS-092723-36 (A3I1542-02RE1)		Matrix: Water						
Batch: 23J0301								
Calcium	170000	3000	6000	ug/L	10	10/10/23 13:33	EPA 6020B	
GS-092723-36 (A3I1542-02RE2)		Matrix: Water						
Batch: 23J0301								
Selenium	ND	0.500	1.00	ug/L	1	10/10/23 12:26	EPA 6020B	

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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:****A3I1542 - 12 05 23 0752****ANALYTICAL SAMPLE RESULTS****Total Cyanide by Flow Analysis (Aqueous)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GS-092723-35 (A3I1542-01)</b>				<b>Matrix: Water</b>		<b>Batch: 23I0989</b>		
<b>Total Cyanide</b>	<b>0.306</b>	0.00500	0.00500	mg/L	1	09/29/23 17:16	EPA 335.4	
<b>GS-092723-36 (A3I1542-02RE1)</b>				<b>Matrix: Water</b>		<b>Batch: 23I0989</b>		
<b>Total Cyanide</b>	<b>0.713</b>	0.0100	0.0100	mg/L	2	09/29/23 17:30	EPA 335.4	

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

Project Manager: **John Renda**

**Report ID:**

**A3I1542 - 12 05 23 0752**

## 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
<b>GS-092723-35 (A3I1542-01)</b>				<b>Matrix: Water</b>		<b>Batch: 23J0026</b>		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	10/02/23 13:59	D6888-09	
<b>GS-092723-36 (A3I1542-02)</b>				<b>Matrix: Water</b>		<b>Batch: 23J0026</b>		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	10/02/23 14:01	D6888-09	

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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:****A3I1542 - 12 05 23 0752****ANALYTICAL SAMPLE RESULTS****Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>GS-092723-35 (A3I1542-01)</b>				<b>Matrix: Water</b>		<b>Batch: 23I0987</b>		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/29/23 13:10	D4282-02	
<b>GS-092723-36 (A3I1542-02)</b>				<b>Matrix: Water</b>		<b>Batch: 23I0987</b>		<b>PRES</b>
Free Cyanide	ND	0.00250	0.00500	mg/L	1	09/29/23 13:10	D4282-02	

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A3I1542 - 12 05 23 0752

## 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 23J0224 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (23J0224-BLK1)			Prepared: 10/06/23 11:11		Analyzed: 10/06/23 20:26								
NWTPH-Dx													
Diesel	ND	100	200	ug/L	1	---	---	---	---	---	---		
Oil	ND	200	400	ug/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %		Dilution: 1x							
LCS (23J0224-BS1)			Prepared: 10/06/23 11:11		Analyzed: 10/06/23 20:50								
NWTPH-Dx													
Diesel	637	100	200	ug/L	1	1250	---	51	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (23J0224-BSD1)			Prepared: 10/06/23 11:11		Analyzed: 10/06/23 21:13								Q-19
NWTPH-Dx													
Diesel	635	100	200	ug/L	1	1250	---	51	36-132%	0.3	30%		
Surr: o-Terphenyl (Surr)		Recovery: 84 %		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 23J0169 - EPA 5030C						Water						
Blank (23J0169-BLK1)			Prepared: 10/05/23 11:21   Analyzed: 10/05/23 14:00									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		108 %		50-150 %		"						
LCS (23J0169-BS2)			Prepared: 10/05/23 11:21   Analyzed: 10/05/23 13:32									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	553	50.0	100	ug/L	1	500	---	111	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		102 %		50-150 %		"						
Duplicate (23J0169-DUP1)			Prepared: 10/05/23 11:21   Analyzed: 10/05/23 21:25									
<u>QC Source Sample: Non-SDG (A3J0946-01)</u>												
Gasoline Range Organics	ND	100	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 105 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		108 %		50-150 %		"						
Duplicate (23J0169-DUP2)			Prepared: 10/05/23 11:21   Analyzed: 10/05/23 23:45									
<u>QC Source Sample: Non-SDG (A3I1540-01)</u>												
Gasoline Range Organics	16600	2500	5000	ug/L	50	---	15600	---	---	6	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		98 %		50-150 %		"						

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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:

A3I1542 - 12 05 23 0752

## 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 23J0216 - EPA 5030C						Water						
Blank (23J0216-BLK1)			Prepared: 10/06/23 10:22   Analyzed: 10/06/23 12:26									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		109 %		50-150 %		"						
LCS (23J0216-BS2)			Prepared: 10/06/23 10:22   Analyzed: 10/06/23 11:58									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	533	50.0	100	ug/L	1	500	---	107	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 101 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		103 %		50-150 %		"						
Duplicate (23J0216-DUP1)			Prepared: 10/06/23 10:22   Analyzed: 10/06/23 21:15									
<u>QC Source Sample: Non-SDG (A3J0802-05)</u>												
Gasoline Range Organics	ND	1000	2000	ug/L	20	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 109 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		110 %		50-150 %		"						

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503-718-2323  
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125  
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1542 - 12 05 23 0752****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 23J0169 - EPA 5030C						Water						
Blank (23J0169-BLK1)			Prepared: 10/05/23 11:21		Analyzed: 10/05/23 14:00							
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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## 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 23J0169 - EPA 5030C						Water						
Blank (23J0169-BLK1)						Prepared: 10/05/23 11:21 Analyzed: 10/05/23 14:00						
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: 103 % Limits: 80-120 % Dilution: 1x												

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Darwin Thomas, Business Development Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125  
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1542 - 12 05 23 0752****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 23J0169 - EPA 5030C						Water						
Blank (23J0169-BLK1)			Prepared: 10/05/23 11:21		Analyzed: 10/05/23 14:00							
Surr: Toluene-d8 (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
LCS (23J0169-BS1)			Prepared: 10/05/23 11:21		Analyzed: 10/05/23 13:02							
EPA 8260D												
Acetone	42.4	10.0	20.0	ug/L	1	40.0	---	106	80-120%	---	---	
Acrylonitrile	19.3	1.00	2.00	ug/L	1	20.0	---	96	80-120%	---	---	
Benzene	20.3	0.100	0.200	ug/L	1	20.0	---	102	80-120%	---	---	
Bromobenzene	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Bromochloromethane	20.7	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Bromodichloromethane	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Bromoform	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Bromomethane	21.4	5.00	5.00	ug/L	1	20.0	---	107	80-120%	---	---	
2-Butanone (MEK)	42.7	5.00	10.0	ug/L	1	40.0	---	107	80-120%	---	---	
n-Butylbenzene	21.5	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
sec-Butylbenzene	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
tert-Butylbenzene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Carbon disulfide	22.9	5.00	10.0	ug/L	1	20.0	---	114	80-120%	---	---	
Carbon tetrachloride	22.7	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Chlorobenzene	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Chloroethane	23.0	5.00	5.00	ug/L	1	20.0	---	115	80-120%	---	---	
Chloroform	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Chloromethane	18.8	2.50	5.00	ug/L	1	20.0	---	94	80-120%	---	---	
2-Chlorotoluene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
4-Chlorotoluene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Dibromochloromethane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.0	2.50	5.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,2-Dibromoethane (EDB)	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Dibromomethane	19.9	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
1,3-Dichlorobenzene	21.5	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
1,4-Dichlorobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Dichlorodifluoromethane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,1-Dichloroethane	20.5	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	

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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:

A3I1542 - 12 05 23 0752

## 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 23J0169 - EPA 5030C						Water						
LCS (23J0169-BS1)						Prepared: 10/05/23 11:21 Analyzed: 10/05/23 13:02						
1,2-Dichloroethane (EDC)	21.2	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
1,1-Dichloroethene	21.8	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
cis-1,2-Dichloroethene	20.3	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
trans-1,2-Dichloroethene	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichloropropane	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,3-Dichloropropane	21.1	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	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
cis-1,3-Dichloropropene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
trans-1,3-Dichloropropene	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Ethylbenzene	20.7	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Hexachlorobutadiene	18.1	2.50	5.00	ug/L	1	20.0	---	90	80-120%	---	---	
2-Hexanone	36.1	5.00	10.0	ug/L	1	40.0	---	90	80-120%	---	---	
Isopropylbenzene	19.3	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
4-Isopropyltoluene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Methylene chloride	21.0	5.00	10.0	ug/L	1	20.0	---	105	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	39.9	5.00	10.0	ug/L	1	40.0	---	100	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Naphthalene	18.6	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
n-Propylbenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Styrene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,1,2-Tetrachloroethane	22.5	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.5	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Tetrachloroethene (PCE)	20.3	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
Toluene	18.9	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	21.1	1.00	2.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2,4-Trichlorobenzene	19.3	1.00	2.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,1-Trichloroethane	22.2	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
1,1,2-Trichloroethane	20.9	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Trichloroethene (TCE)	19.0	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
Trichlorofluoromethane	24.0	1.00	2.00	ug/L	1	20.0	---	120	80-120%	---	---	
1,2,3-Trichloropropane	21.3	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,2,4-Trimethylbenzene	22.8	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	---	113	80-120%	---	---	

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

## Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1542 - 12 05 23 0752

## 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 23J0169 - EPA 5030C						Water						
LCS (23J0169-BS1)			Prepared: 10/05/23 11:21		Analyzed: 10/05/23 13:02							
Vinyl chloride	19.1	0.100	0.200	ug/L	1	20.0	---	96	80-120%	---	---	
m,p-Xylene	40.6	0.500	1.00	ug/L	1	40.0	---	102	80-120%	---	---	
o-Xylene	19.0	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

## Duplicate (23J0169-DUP1)

Prepared: 10/05/23 11:21 Analyzed: 10/05/23 21:25

## QC Source Sample: Non-SDG (A3J0946-01)

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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503-718-2323

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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:

A3I1542 - 12 05 23 0752

## 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 23J0169 - EPA 5030C							Water					
Duplicate (23J0169-DUP1)			Prepared: 10/05/23 11:21		Analyzed: 10/05/23 21:25							
QC Source Sample: Non-SDG (A3J0946-01)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	0.540	0.250	0.500	ug/L	1	---	0.500	---	---	8	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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## 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 23J0169 - EPA 5030C						Water						
Duplicate (23J0169-DUP1)			Prepared: 10/05/23 11:21    Analyzed: 10/05/23 21:25									
QC Source Sample: Non-SDG (A3J0946-01)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	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	2.05	0.500	1.00	ug/L	1	---	1.97	---	---	4	30%	
o-Xylene	0.720	0.250	0.500	ug/L	1	---	0.670	---	---	7	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

Duplicate (23J0169-DUP2) Prepared: 10/05/23 11:21 Analyzed: 10/05/23 23:45

QC Source Sample: Non-SDG (A3I1540-01)

Acetone	ND	500	1000	ug/L	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
Benzene	4880	5.00	10.0	ug/L	50	---	4850	---	---	0.8	30%	
Bromobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromoform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Bromomethane	ND	250	250	ug/L	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Chloroethane	ND	250	250	ug/L	50	---	ND	---	---	---	30%	
Chloroform	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Chloromethane	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	

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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:

A3I1542 - 12 05 23 0752

## 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 23J0169 - EPA 5030C						Water						
Duplicate (23J0169-DUP2)			Prepared: 10/05/23 11:21   Analyzed: 10/05/23 23:45									
QC Source Sample: Non-SDG (A3I1540-01)												
4-Chlorotoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Dibromomethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Ethylbenzene	18.5	12.5	25.0	ug/L	50	---	18.5	---	---	0	30%	
Hexachlorobutadiene	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
2-Hexanone	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Methylene chloride	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	250	500	ug/L	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Naphthalene	ND	125	250	ug/L	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Styrene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	

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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:

A3I1542 - 12 05 23 0752

## 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 23J0169 - EPA 5030C						Water						
Duplicate (23J0169-DUP2)			Prepared: 10/05/23 11:21    Analyzed: 10/05/23 23:45									
QC Source Sample: Non-SDG (A3I1540-01)												
Tetrachloroethene (PCE)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
Toluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	10.0	20.0	ug/L	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	5.00	10.0	ug/L	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
o-Xylene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

## Matrix Spike (23J0169-MS1)

Prepared: 10/05/23 11:21 Analyzed: 10/06/23 00:40

## QC Source Sample: GS-092723-36 (A3I1542-02)

## EPA 8260D

Acetone	1650	500	1000	ug/L	50	2000	ND	83	39-160%	---	---	
Acrylonitrile	929	50.0	100	ug/L	50	1000	ND	93	63-135%	---	---	
Benzene	1120	5.00	10.0	ug/L	50	1000	36.0	108	79-120%	---	---	
Bromobenzene	991	12.5	25.0	ug/L	50	1000	ND	99	80-120%	---	---	
Bromochloromethane	1050	25.0	50.0	ug/L	50	1000	ND	105	78-123%	---	---	
Bromodichloromethane	1130	25.0	50.0	ug/L	50	1000	ND	113	79-125%	---	---	
Bromoform	977	25.0	50.0	ug/L	50	1000	ND	98	66-130%	---	---	
Bromomethane	1020	250	250	ug/L	50	1000	ND	102	53-141%	---	---	
2-Butanone (MEK)	1850	250	500	ug/L	50	2000	ND	92	56-143%	---	---	
n-Butylbenzene	1180	25.0	50.0	ug/L	50	1000	ND	118	75-128%	---	---	
sec-Butylbenzene	1140	25.0	50.0	ug/L	50	1000	ND	114	77-126%	---	---	
tert-Butylbenzene	1130	25.0	50.0	ug/L	50	1000	ND	113	78-124%	---	---	

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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:**

**A3I1542 - 12 05 23 0752**

### 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 23J0169 - EPA 5030C						Water						
Matrix Spike (23J0169-MS1)			Prepared: 10/05/23 11:21    Analyzed: 10/06/23 00:40									
QC Source Sample: GS-092723-36 (A311542-02)												
Carbon disulfide	1280	250	500	ug/L	50	1000	ND	128	64-133%	---	---	
Carbon tetrachloride	1290	25.0	50.0	ug/L	50	1000	ND	129	72-136%	---	---	
Chlorobenzene	1020	12.5	25.0	ug/L	50	1000	ND	102	80-120%	---	---	
Chloroethane	1340	250	250	ug/L	50	1000	ND	134	60-138%	---	---	
Chloroform	1070	25.0	50.0	ug/L	50	1000	ND	107	79-124%	---	---	
Chloromethane	1100	125	250	ug/L	50	1000	ND	110	50-139%	---	---	
2-Chlorotoluene	1070	25.0	50.0	ug/L	50	1000	ND	107	79-122%	---	---	
4-Chlorotoluene	1110	25.0	50.0	ug/L	50	1000	ND	111	78-122%	---	---	
Dibromochloromethane	1000	25.0	50.0	ug/L	50	1000	ND	100	74-126%	---	---	
1,2-Dibromo-3-chloropropane	856	125	250	ug/L	50	1000	ND	86	62-128%	---	---	
1,2-Dibromoethane (EDB)	1060	12.5	25.0	ug/L	50	1000	ND	106	77-121%	---	---	
Dibromomethane	982	25.0	50.0	ug/L	50	1000	ND	98	79-123%	---	---	
1,2-Dichlorobenzene	1040	12.5	25.0	ug/L	50	1000	ND	104	80-120%	---	---	
1,3-Dichlorobenzene	1100	12.5	25.0	ug/L	50	1000	ND	110	80-120%	---	---	
1,4-Dichlorobenzene	956	12.5	25.0	ug/L	50	1000	ND	96	79-120%	---	---	
Dichlorodifluoromethane	1200	25.0	50.0	ug/L	50	1000	ND	120	32-152%	---	---	
1,1-Dichloroethane	1080	10.0	20.0	ug/L	50	1000	ND	108	77-125%	---	---	
1,2-Dichloroethane (EDC)	1050	10.0	20.0	ug/L	50	1000	ND	105	73-128%	---	---	
1,1-Dichloroethene	1230	10.0	20.0	ug/L	50	1000	ND	123	71-131%	---	---	
cis-1,2-Dichloroethene	1040	10.0	20.0	ug/L	50	1000	ND	104	78-123%	---	---	
trans-1,2-Dichloroethene	1040	10.0	20.0	ug/L	50	1000	ND	104	75-124%	---	---	
1,2-Dichloropropane	1000	12.5	25.0	ug/L	50	1000	ND	100	78-122%	---	---	
1,3-Dichloropropane	1060	25.0	50.0	ug/L	50	1000	ND	106	80-120%	---	---	
2,2-Dichloropropane	1090	25.0	50.0	ug/L	50	1000	ND	109	60-139%	---	---	
1,1-Dichloropropene	1180	25.0	50.0	ug/L	50	1000	ND	118	79-125%	---	---	
cis-1,3-Dichloropropene	872	25.0	50.0	ug/L	50	1000	ND	87	75-124%	---	---	
trans-1,3-Dichloropropene	1010	25.0	50.0	ug/L	50	1000	ND	101	73-127%	---	---	
Ethylbenzene	1090	12.5	25.0	ug/L	50	1000	ND	109	79-121%	---	---	
Hexachlorobutadiene	1020	125	250	ug/L	50	1000	ND	102	66-134%	---	---	
2-Hexanone	1680	250	500	ug/L	50	2000	ND	84	57-139%	---	---	
Isopropylbenzene	1060	25.0	50.0	ug/L	50	1000	ND	106	72-131%	---	---	
4-Isopropyltoluene	1050	25.0	50.0	ug/L	50	1000	ND	105	77-127%	---	---	
Methylene chloride	1090	250	500	ug/L	50	1000	ND	109	74-124%	---	---	

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Darwin Thomas, Business Development Director





## ANALYTICAL REPORT

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ORELAP ID: OR100062

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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:

A3I1542 - 12 05 23 0752

## 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 23J0169 - EPA 5030C						Water						
Matrix Spike (23J0169-MS1)			Prepared: 10/05/23 11:21    Analyzed: 10/06/23 00:40									
QC Source Sample: GS-092723-36 (A3I1542-02)												
4-Methyl-2-pentanone (MiBK)	1880	250	500	ug/L	50	2000	ND	94	67-130%	---	---	Q-01
Methyl tert-butyl ether (MTBE)	1110	25.0	50.0	ug/L	50	1000	ND	111	71-124%	---	---	
Naphthalene	930	125	250	ug/L	50	1000	ND	93	61-128%	---	---	
n-Propylbenzene	1090	12.5	25.0	ug/L	50	1000	ND	109	76-126%	---	---	
Styrene	1000	25.0	50.0	ug/L	50	1000	ND	100	78-123%	---	---	
1,1,1,2-Tetrachloroethane	1160	10.0	20.0	ug/L	50	1000	ND	116	78-124%	---	---	
1,1,2,2-Tetrachloroethane	996	12.5	25.0	ug/L	50	1000	ND	100	71-121%	---	---	
Tetrachloroethene (PCE)	1110	10.0	20.0	ug/L	50	1000	ND	111	74-129%	---	---	
Toluene	984	25.0	50.0	ug/L	50	1000	ND	98	80-121%	---	---	
1,2,3-Trichlorobenzene	1060	50.0	100	ug/L	50	1000	ND	106	69-129%	---	---	
1,2,4-Trichlorobenzene	998	50.0	100	ug/L	50	1000	ND	100	69-130%	---	---	
1,1,1-Trichloroethane	1240	10.0	20.0	ug/L	50	1000	ND	124	74-131%	---	---	
1,1,2-Trichloroethane	1040	12.5	25.0	ug/L	50	1000	ND	104	80-120%	---	---	
Trichloroethene (TCE)	1020	10.0	20.0	ug/L	50	1000	ND	102	79-123%	---	---	
Trichlorofluoromethane	1440	50.0	100	ug/L	50	1000	ND	144	65-141%	---	---	
1,2,3-Trichloropropane	1070	25.0	50.0	ug/L	50	1000	ND	107	73-122%	---	---	
1,2,4-Trimethylbenzene	1190	25.0	50.0	ug/L	50	1000	ND	119	76-124%	---	---	
1,3,5-Trimethylbenzene	1180	25.0	50.0	ug/L	50	1000	ND	118	75-124%	---	---	
Vinyl chloride	1120	5.00	10.0	ug/L	50	1000	ND	112	58-137%	---	---	
m,p-Xylene	2150	25.0	50.0	ug/L	50	2000	ND	108	80-121%	---	---	
o-Xylene	993	12.5	25.0	ug/L	50	1000	ND	99	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

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Page 32 of 59



**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:****A3I1542 - 12 05 23 0752****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 23J0216 - EPA 5030C						Water						
Blank (23J0216-BLK1)			Prepared: 10/06/23 10:22		Analyzed: 10/06/23 12:26							
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:

A3I1542 - 12 05 23 0752

## 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 23J0216 - EPA 5030C						Water						
Blank (23J0216-BLK1)						Prepared: 10/06/23 10:22 Analyzed: 10/06/23 12:26						
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: 103 % Limits: 80-120 % Dilution: 1x												

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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:

A3I1542 - 12 05 23 0752

## 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 23J0216 - EPA 5030C						Water						
Blank (23J0216-BLK1)			Prepared: 10/06/23 10:22		Analyzed: 10/06/23 12:26							
Surr: Toluene-d8 (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						
LCS (23J0216-BS1)			Prepared: 10/06/23 10:22		Analyzed: 10/06/23 11:19							
EPA 8260D												
Acetone	38.6	10.0	20.0	ug/L	1	40.0	---	96	80-120%	---	---	
Acrylonitrile	18.8	1.00	2.00	ug/L	1	20.0	---	94	80-120%	---	---	
Benzene	19.8	0.100	0.200	ug/L	1	20.0	---	99	80-120%	---	---	
Bromobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Bromochloromethane	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Bromodichloromethane	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Bromoform	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Bromomethane	21.2	5.00	5.00	ug/L	1	20.0	---	106	80-120%	---	---	
2-Butanone (MEK)	39.8	5.00	10.0	ug/L	1	40.0	---	99	80-120%	---	---	
n-Butylbenzene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
sec-Butylbenzene	20.1	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
tert-Butylbenzene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Carbon disulfide	22.1	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	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Chloroethane	23.7	5.00	5.00	ug/L	1	20.0	---	118	80-120%	---	---	
Chloroform	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chloromethane	18.6	2.50	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
2-Chlorotoluene	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
4-Chlorotoluene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Dibromochloromethane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dibromo-3-chloropropane	17.4	2.50	5.00	ug/L	1	20.0	---	87	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Dibromomethane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,3-Dichlorobenzene	21.3	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
1,4-Dichlorobenzene	18.7	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Dichlorodifluoromethane	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,1-Dichloroethane	20.2	0.200	0.400	ug/L	1	20.0	---	101	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:

A3I1542 - 12 05 23 0752

## 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 23J0216 - EPA 5030C						Water						
LCS (23J0216-BS1)						Prepared: 10/06/23 10:22 Analyzed: 10/06/23 11:19						
1,2-Dichloroethane (EDC)	21.1	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
1,1-Dichloroethene	21.0	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
cis-1,2-Dichloroethene	19.8	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
trans-1,2-Dichloroethene	19.0	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
1,2-Dichloropropane	19.0	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
1,3-Dichloropropane	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
2,2-Dichloropropane	24.3	0.500	1.00	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
1,1-Dichloropropene	20.7	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
cis-1,3-Dichloropropene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
trans-1,3-Dichloropropene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Ethylbenzene	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Hexachlorobutadiene	17.9	2.50	5.00	ug/L	1	20.0	---	89	80-120%	---	---	
2-Hexanone	34.7	5.00	10.0	ug/L	1	40.0	---	87	80-120%	---	---	
Isopropylbenzene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
4-Isopropyltoluene	18.9	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
Methylene chloride	21.3	5.00	10.0	ug/L	1	20.0	---	107	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	38.0	5.00	10.0	ug/L	1	40.0	---	95	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	21.9	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Naphthalene	17.5	2.50	5.00	ug/L	1	20.0	---	88	80-120%	---	---	
n-Propylbenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Styrene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,1,2-Tetrachloroethane	22.5	0.200	0.400	ug/L	1	20.0	---	113	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.1	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Tetrachloroethene (PCE)	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
Toluene	18.5	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,2,3-Trichlorobenzene	20.3	1.00	2.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2,4-Trichlorobenzene	18.4	1.00	2.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,1,1-Trichloroethane	22.2	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
1,1,2-Trichloroethane	20.5	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Trichloroethene (TCE)	18.5	0.200	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
Trichlorofluoromethane	24.2	1.00	2.00	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
1,2,3-Trichloropropane	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2,4-Trimethylbenzene	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,3,5-Trimethylbenzene	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	

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Darwin Thomas, Business Development Director

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## ANALYTICAL REPORT

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503-718-2323

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1542 - 12 05 23 0752

## 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 23J0216 - EPA 5030C						Water						
LCS (23J0216-BS1)						Prepared: 10/06/23 10:22 Analyzed: 10/06/23 11:19						
Vinyl chloride	18.7	0.100	0.200	ug/L	1	20.0	---	94	80-120%	---	---	
m,p-Xylene	40.3	0.500	1.00	ug/L	1	40.0	---	101	80-120%	---	---	
o-Xylene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)				Recovery: 97 %	Limits: 80-120 %	Dilution: 1x						
Toluene-d8 (Surr)				98 %	80-120 %	"						
4-Bromofluorobenzene (Surr)				94 %	80-120 %	"						

## Duplicate (23J0216-DUP1)

Prepared: 10/06/23 10:22 Analyzed: 10/06/23 21:15

## QC Source Sample: Non-SDG (A3J0802-05)

Acetone	ND	200	400	ug/L	20	---	ND	---	---	---	30%
Acrylonitrile	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%
Benzene	ND	2.00	4.00	ug/L	20	---	ND	---	---	---	30%
Bromobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%
Bromochloromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Bromodichloromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Bromoform	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Bromomethane	ND	100	100	ug/L	20	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	100	200	ug/L	20	---	ND	---	---	---	30%
n-Butylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
sec-Butylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
tert-Butylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Carbon disulfide	ND	100	200	ug/L	20	---	ND	---	---	---	30%
Carbon tetrachloride	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Chlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%
Chloroethane	ND	100	100	ug/L	20	---	ND	---	---	---	30%
Chloroform	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Chloromethane	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%
2-Chlorotoluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
4-Chlorotoluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
Dibromochloromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%
Dibromomethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%

Apex Laboratories

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

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ORELAP ID: OR100062

**Anchor QEA, LLC**

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1542 - 12 05 23 0752****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 23J0216 - EPA 5030C						Water						
Duplicate (23J0216-DUP1)			Prepared: 10/06/23 10:22   Analyzed: 10/06/23 21:15									
QC Source Sample: Non-SDG (A3J0802-05)												
1,3-Dichlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Ethylbenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%	
2-Hexanone	ND	100	200	ug/L	20	---	ND	---	---	---	30%	
Isopropylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Methylene chloride	ND	100	200	ug/L	20	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	100	200	ug/L	20	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Naphthalene	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%	
n-Propylbenzene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Styrene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
Toluene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	5.00	10.0	ug/L	20	---	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:

A3I1542 - 12 05 23 0752

## 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 23J0216 - EPA 5030C												Water
Duplicate (23J0216-DUP1)												Prepared: 10/06/23 10:22 Analyzed: 10/06/23 21:15
QC Source Sample: Non-SDG (A3J0802-05)												
Trichloroethene (TCE)	ND	8.00	8.00	ug/L	20	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	20.0	40.0	ug/L	20	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
Vinyl chloride	ND	2.00	4.00	ug/L	20	---	ND	---	---	---	30%	
m,p-Xylene	ND	10.0	20.0	ug/L	20	---	ND	---	---	---	30%	
o-Xylene	ND	5.00	10.0	ug/L	20	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)												Recovery: 103 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr)												100 % 80-120 % "
4-Bromofluorobenzene (Surr)												97 % 80-120 % "

## Matrix Spike (23J0216-MS1)

Prepared: 10/06/23 10:22 Analyzed: 10/06/23 15:13

## QC Source Sample: Non-SDG (A3J0815-01)

## EPA 8260D

Acetone	30.4	10.0	20.0	ug/L	1	40.0	ND	76	39-160%	---	---	
Acrylonitrile	16.2	1.00	2.00	ug/L	1	20.0	ND	81	63-135%	---	---	
Benzene	17.9	0.100	0.200	ug/L	1	20.0	ND	89	79-120%	---	---	
Bromobenzene	17.1	0.250	0.500	ug/L	1	20.0	ND	86	80-120%	---	---	
Bromochloromethane	17.7	0.500	1.00	ug/L	1	20.0	ND	88	78-123%	---	---	
Bromodichloromethane	18.9	0.500	1.00	ug/L	1	20.0	ND	95	79-125%	---	---	
Bromoform	16.6	0.500	1.00	ug/L	1	20.0	ND	83	66-130%	---	---	
Bromomethane	17.3	5.00	5.00	ug/L	1	20.0	ND	86	53-141%	---	---	
2-Butanone (MEK)	31.4	5.00	10.0	ug/L	1	40.0	ND	79	56-143%	---	---	
n-Butylbenzene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	75-128%	---	---	
sec-Butylbenzene	18.6	0.500	1.00	ug/L	1	20.0	ND	93	77-126%	---	---	
tert-Butylbenzene	18.7	0.500	1.00	ug/L	1	20.0	ND	93	78-124%	---	---	
Carbon disulfide	21.2	5.00	10.0	ug/L	1	20.0	ND	106	64-133%	---	---	
Carbon tetrachloride	21.6	0.500	1.00	ug/L	1	20.0	ND	108	72-136%	---	---	
Chlorobenzene	17.2	0.250	0.500	ug/L	1	20.0	ND	86	80-120%	---	---	
Chloroethane	21.0	5.00	5.00	ug/L	1	20.0	ND	105	60-138%	---	---	
Chloroform	17.9	0.500	1.00	ug/L	1	20.0	ND	90	79-124%	---	---	
Chloromethane	19.3	2.50	5.00	ug/L	1	20.0	ND	96	50-139%	---	---	

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

## Anchor QEA, LLC

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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:

A3I1542 - 12 05 23 0752

## 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 23J0216 - EPA 5030C						Water						
Matrix Spike (23J0216-MS1)			Prepared: 10/06/23 10:22		Analyzed: 10/06/23 15:13							
QC Source Sample: Non-SDG (A3J0815-01)												
2-Chlorotoluene	17.8	0.500	1.00	ug/L	1	20.0	ND	89	79-122%	---	---	
4-Chlorotoluene	18.5	0.500	1.00	ug/L	1	20.0	ND	92	78-122%	---	---	
Dibromochloromethane	16.8	0.500	1.00	ug/L	1	20.0	ND	84	74-126%	---	---	
1,2-Dibromo-3-chloropropane	15.0	2.50	5.00	ug/L	1	20.0	ND	75	62-128%	---	---	
1,2-Dibromoethane (EDB)	18.0	0.250	0.500	ug/L	1	20.0	ND	90	77-121%	---	---	
Dibromomethane	16.4	0.500	1.00	ug/L	1	20.0	ND	82	79-123%	---	---	
1,2-Dichlorobenzene	17.5	0.250	0.500	ug/L	1	20.0	ND	87	80-120%	---	---	
1,3-Dichlorobenzene	18.6	0.250	0.500	ug/L	1	20.0	ND	93	80-120%	---	---	
1,4-Dichlorobenzene	16.3	0.250	0.500	ug/L	1	20.0	ND	81	79-120%	---	---	
Dichlorodifluoromethane	20.0	0.500	1.00	ug/L	1	20.0	ND	100	32-152%	---	---	
1,1-Dichloroethane	18.0	0.200	0.400	ug/L	1	20.0	ND	90	77-125%	---	---	
1,2-Dichloroethane (EDC)	18.0	0.200	0.400	ug/L	1	20.0	ND	90	73-128%	---	---	
1,1-Dichloroethene	20.2	0.200	0.400	ug/L	1	20.0	ND	101	71-131%	---	---	
cis-1,2-Dichloroethene	17.5	0.200	0.400	ug/L	1	20.0	ND	87	78-123%	---	---	
trans-1,2-Dichloroethene	17.6	0.200	0.400	ug/L	1	20.0	ND	88	75-124%	---	---	
1,2-Dichloropropane	16.6	0.250	0.500	ug/L	1	20.0	ND	83	78-122%	---	---	
1,3-Dichloropropane	17.8	0.500	1.00	ug/L	1	20.0	ND	89	80-120%	---	---	
2,2-Dichloropropane	21.3	0.500	1.00	ug/L	1	20.0	ND	106	60-139%	---	---	Q-54a
1,1-Dichloropropene	19.7	0.500	1.00	ug/L	1	20.0	ND	99	79-125%	---	---	
cis-1,3-Dichloropropene	14.8	0.500	1.00	ug/L	1	20.0	ND	74	75-124%	---	---	Q-01
trans-1,3-Dichloropropene	17.3	0.500	1.00	ug/L	1	20.0	ND	86	73-127%	---	---	
Ethylbenzene	18.4	0.250	0.500	ug/L	1	20.0	ND	92	79-121%	---	---	
Hexachlorobutadiene	16.8	2.50	5.00	ug/L	1	20.0	ND	84	66-134%	---	---	
2-Hexanone	29.3	5.00	10.0	ug/L	1	40.0	ND	73	57-139%	---	---	
Isopropylbenzene	17.1	0.500	1.00	ug/L	1	20.0	ND	85	72-131%	---	---	
4-Isopropyltoluene	17.2	0.500	1.00	ug/L	1	20.0	ND	86	77-127%	---	---	
Methylene chloride	17.4	5.00	10.0	ug/L	1	20.0	ND	87	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	32.2	5.00	10.0	ug/L	1	40.0	ND	80	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	18.7	0.500	1.00	ug/L	1	20.0	ND	94	71-124%	---	---	
Naphthalene	14.9	2.50	5.00	ug/L	1	20.0	ND	74	61-128%	---	---	
n-Propylbenzene	18.3	0.250	0.500	ug/L	1	20.0	ND	92	76-126%	---	---	
Styrene	16.4	0.500	1.00	ug/L	1	20.0	ND	82	78-123%	---	---	
1,1,1,2-Tetrachloroethane	19.7	0.200	0.400	ug/L	1	20.0	ND	99	78-124%	---	---	

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1542 - 12 05 23 0752

## 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 23J0216 - EPA 5030C						Water						
Matrix Spike (23J0216-MS1)			Prepared: 10/06/23 10:22		Analyzed: 10/06/23 15:13							
QC Source Sample: Non-SDG (A3J0815-01)												
1,1,2,2-Tetrachloroethane	17.7	0.250	0.500	ug/L	1	20.0	ND	89	71-121%	---	---	Q-54
Tetrachloroethene (PCE)	21.2	0.200	0.400	ug/L	1	20.0	2.78	92	74-129%	---	---	
Toluene	16.3	0.500	1.00	ug/L	1	20.0	ND	81	80-121%	---	---	
1,2,3-Trichlorobenzene	18.0	1.00	2.00	ug/L	1	20.0	ND	90	69-129%	---	---	
1,2,4-Trichlorobenzene	16.2	1.00	2.00	ug/L	1	20.0	ND	81	69-130%	---	---	
1,1,1-Trichloroethane	20.8	0.200	0.400	ug/L	1	20.0	ND	104	74-131%	---	---	
1,1,2-Trichloroethane	17.8	0.250	0.500	ug/L	1	20.0	ND	89	80-120%	---	---	
Trichloroethene (TCE)	17.3	0.200	0.400	ug/L	1	20.0	ND	87	79-123%	---	---	
Trichlorofluoromethane	24.7	1.00	2.00	ug/L	1	20.0	ND	123	65-141%	---	---	
1,2,3-Trichloropropane	18.2	0.500	1.00	ug/L	1	20.0	ND	91	73-122%	---	---	
1,2,4-Trimethylbenzene	19.7	0.500	1.00	ug/L	1	20.0	ND	98	76-124%	---	---	
1,3,5-Trimethylbenzene	19.7	0.500	1.00	ug/L	1	20.0	ND	98	75-124%	---	---	
Vinyl chloride	18.5	0.100	0.200	ug/L	1	20.0	ND	93	58-137%	---	---	
m,p-Xylene	35.6	0.500	1.00	ug/L	1	40.0	ND	89	80-121%	---	---	
o-Xylene	16.2	0.250	0.500	ug/L	1	20.0	ND	81	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		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:

A3I1542 - 12 05 23 0752

## 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 23I0997 - EPA 3511 (Bottle Extraction)						Water						
Blank (23I0997-BLK1)			Prepared: 09/29/23 09:28		Analyzed: 09/30/23 00:24							
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: 96 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		112 %		80-132 %		"						

LCS (23I0997-BS1)

Prepared: 09/29/23 09:28 Analyzed: 09/30/23 00:57

## EPA 8270E LVI

Acenaphthene	1.69	0.0160	0.0320	ug/L	1	1.60	---	106	80-120%	---	---
Acenaphthylene	1.78	0.0160	0.0320	ug/L	1	1.60	---	112	80-124%	---	---
Anthracene	1.74	0.0160	0.0320	ug/L	1	1.60	---	108	80-123%	---	---
Benz(a)anthracene	1.82	0.00800	0.0160	ug/L	1	1.60	---	114	80-122%	---	---
Benzo(a)pyrene	1.89	0.00800	0.0160	ug/L	1	1.60	---	118	80-129%	---	---
Benzo(b+j)fluoranthene(s)	1.85	0.00800	0.0160	ug/L	1	1.60	---	116	80-124%	---	---
Benzo(k)fluoranthene	1.94	0.00800	0.0160	ug/L	1	1.60	---	121	80-125%	---	---
Benzo(g,h,i)perylene	1.83	0.0160	0.0320	ug/L	1	1.60	---	114	80-120%	---	---

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Report ID:

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## 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 2310997 - EPA 3511 (Bottle Extraction)						Water						
LCS (2310997-BS1)						Prepared: 09/29/23 09:28 Analyzed: 09/30/23 00:57						
Chrysene	1.71	0.00800	0.0160	ug/L	1	1.60	---	107	80-120%	---	---	
Dibenz(a,h)anthracene	1.75	0.00800	0.0160	ug/L	1	1.60	---	109	80-120%	---	---	
Fluoranthene	1.94	0.0160	0.0320	ug/L	1	1.60	---	121	80-126%	---	---	
Fluorene	1.75	0.0160	0.0320	ug/L	1	1.60	---	110	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.80	0.00800	0.0160	ug/L	1	1.60	---	113	80-121%	---	---	
1-Methylnaphthalene	1.72	0.0320	0.0640	ug/L	1	1.60	---	107	53-148%	---	---	
2-Methylnaphthalene	1.67	0.0320	0.0640	ug/L	1	1.60	---	105	48-150%	---	---	
Naphthalene	1.70	0.0320	0.0640	ug/L	1	1.60	---	106	78-120%	---	---	
Phenanthrene	1.71	0.0320	0.0640	ug/L	1	1.60	---	107	80-120%	---	---	
Pyrene	1.94	0.0160	0.0320	ug/L	1	1.60	---	121	80-125%	---	---	
Carbazole	1.56	0.0160	0.0320	ug/L	1	1.60	---	97	65-141%	---	---	
Dibenzofuran	1.75	0.0160	0.0320	ug/L	1	1.60	---	109	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr) Recovery: 94 % Limits: 78-134 % Dilution: 1x												
Benzo(a)pyrene-d12 (Surr) 115 % 80-132 % "												

LCS Dup (2310997-BSD1) Prepared: 09/29/23 09:28 Analyzed: 09/30/23 01:29

## EPA 8270E LVI

Acenaphthene	1.74	0.0160	0.0320	ug/L	1	1.60	---	108	80-120%	2	30%
Acenaphthylene	1.79	0.0160	0.0320	ug/L	1	1.60	---	112	80-124%	0.1	30%
Anthracene	1.72	0.0160	0.0320	ug/L	1	1.60	---	108	80-123%	0.8	30%
Benz(a)anthracene	1.85	0.00800	0.0160	ug/L	1	1.60	---	115	80-122%	2	30%
Benzo(a)pyrene	1.89	0.00800	0.0160	ug/L	1	1.60	---	118	80-129%	0.02	30%
Benzo(b+j)fluoranthene(s)	1.87	0.00800	0.0160	ug/L	1	1.60	---	117	80-124%	0.9	30%
Benzo(k)fluoranthene	1.88	0.00800	0.0160	ug/L	1	1.60	---	117	80-125%	4	30%
Benzo(g,h,i)perylene	1.77	0.0160	0.0320	ug/L	1	1.60	---	110	80-120%	3	30%
Chrysene	1.73	0.00800	0.0160	ug/L	1	1.60	---	108	80-120%	1	30%
Dibenz(a,h)anthracene	1.75	0.00800	0.0160	ug/L	1	1.60	---	109	80-120%	0.1	30%
Fluoranthene	1.94	0.0160	0.0320	ug/L	1	1.60	---	121	80-126%	0.2	30%
Fluorene	2.00	0.0160	0.0320	ug/L	1	1.60	---	125	77-127%	13	30%
Indeno(1,2,3-cd)pyrene	1.78	0.00800	0.0160	ug/L	1	1.60	---	111	80-121%	1	30%
1-Methylnaphthalene	1.78	0.0320	0.0640	ug/L	1	1.60	---	111	53-148%	4	30%
2-Methylnaphthalene	1.81	0.0320	0.0640	ug/L	1	1.60	---	113	48-150%	8	30%
Naphthalene	1.76	0.0320	0.0640	ug/L	1	1.60	---	110	78-120%	4	30%
Phenanthrene	1.73	0.0320	0.0640	ug/L	1	1.60	---	108	80-120%	2	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:

A3I1542 - 12 05 23 0752

## 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 23I0997 - EPA 3511 (Bottle Extraction)						Water						
LCS Dup (23I0997-BSD1)			Prepared: 09/29/23 09:28		Analyzed: 09/30/23 01:29							
Pyrene	1.93	0.0160	0.0320	ug/L	1	1.60	---	121	80-125%	0.5	30%	Q-29
Carbazole	1.56	0.0160	0.0320	ug/L	1	1.60	---	97	65-141%	0.1	30%	
Dibenzofuran	1.98	0.0160	0.0320	ug/L	1	1.60	---	124	76-121%	12	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 97 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		114 %		80-132 %		"						

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3I1542 - 12 05 23 0752

## 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 23J0301 - EPA 3015A						Water						
Blank (23J0301-BLK1)				Prepared: 10/09/23 15:15		Analyzed: 10/09/23 23:15						
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	---	---	---	---	---	---	
Calcium	ND	300	600	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	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Vanadium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
Blank (23J0301-BLK2)												
				Prepared: 10/09/23 15:15		Analyzed: 10/10/23 11:13						
EPA 6020B												
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	Q-16
LCS (23J0301-BS1)												
				Prepared: 10/09/23 15:15		Analyzed: 10/09/23 23:20						
EPA 6020B												
Aluminum	2850	25.0	50.0	ug/L	1	2780	---	103	80-120%	---	---	
Antimony	28.2	0.500	1.00	ug/L	1	27.8	---	101	80-120%	---	---	
Arsenic	53.7	0.500	1.00	ug/L	1	55.6	---	97	80-120%	---	---	
Barium	56.7	1.00	2.00	ug/L	1	55.6	---	102	80-120%	---	---	
Beryllium	27.8	0.100	0.200	ug/L	1	27.8	---	100	80-120%	---	---	
Cadmium	53.6	0.100	0.200	ug/L	1	55.6	---	97	80-120%	---	---	
Calcium	2780	300	600	ug/L	1	2780	---	100	80-120%	---	---	
Chromium	55.1	1.00	2.00	ug/L	1	55.6	---	99	80-120%	---	---	

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

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

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A311542 - 12 05 23 0752

## 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 23J0301 - EPA 3015A						Water						
LCS (23J0301-BS1)						Prepared: 10/09/23 15:15 Analyzed: 10/09/23 23:20						
Copper	58.2	1.00	2.00	ug/L	1	55.6	---	105	80-120%	---	---	
Iron	2870	25.0	50.0	ug/L	1	2780	---	103	80-120%	---	---	
Lead	57.8	0.110	0.200	ug/L	1	55.6	---	104	80-120%	---	---	
Manganese	55.3	0.500	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Mercury	1.08	0.0400	0.0800	ug/L	1	1.11	---	97	80-120%	---	---	
Nickel	57.3	1.00	2.00	ug/L	1	55.6	---	103	80-120%	---	---	
Silver	31.4	0.100	0.200	ug/L	1	27.8	---	113	80-120%	---	---	
Thallium	28.2	0.100	0.200	ug/L	1	27.8	---	101	80-120%	---	---	
Vanadium	55.8	1.00	2.00	ug/L	1	55.6	---	100	80-120%	---	---	
Zinc	56.2	2.00	4.00	ug/L	1	55.6	---	101	80-120%	---	---	
LCS (23J0301-BS2)						Prepared: 10/09/23 15:15 Analyzed: 10/10/23 11:18						
EPA 6020B												
Selenium	28.6	0.500	1.00	ug/L	1	27.8	---	103	80-120%	---	---	Q-16
Duplicate (23J0301-DUP1)						Prepared: 10/09/23 15:15 Analyzed: 10/09/23 23:31						
QC Source Sample: Non-SDG (A311540-01)												
Aluminum	ND	25.0	50.0	ug/L	1	---	ND	---	---	---	20%	
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	
Arsenic	8.81	0.500	1.00	ug/L	1	---	8.54	---	---	3	20%	
Barium	63.7	1.00	2.00	ug/L	1	---	62.4	---	---	2	20%	
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Cadmium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Chromium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Copper	4.96	1.00	2.00	ug/L	1	---	4.85	---	---	2	20%	
Iron	18700	25.0	50.0	ug/L	1	---	18200	---	---	3	20%	
Lead	0.654	0.110	0.200	ug/L	1	---	0.644	---	---	1	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	3.83	1.00	2.00	ug/L	1	---	3.76	---	---	2	20%	
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Thallium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Vanadium	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	20%	
Zinc	17.8	2.00	4.00	ug/L	1	---	15.1	---	---	16	20%	

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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:

A3I1542 - 12 05 23 0752

## 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 23J0301 - EPA 3015A Water												
Duplicate (23J0301-DUP2) Prepared: 10/09/23 15:15 Analyzed: 10/10/23 13:28												
QC Source Sample: Non-SDG (A3I1540-01RE1)												
Calcium	86700	3000	6000	ug/L	10	---	85600	---	---	1	20%	Q-16
Manganese	4970	5.00	10.0	ug/L	10	---	4830	---	---	3	20%	Q-16
Duplicate (23J0301-DUP3) Prepared: 10/09/23 15:15 Analyzed: 10/10/23 12:10												
QC Source Sample: Non-SDG (A3I1540-01RE2)												
Selenium	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	Q-16
Matrix Spike (23J0301-MS1) Prepared: 10/09/23 15:15 Analyzed: 10/09/23 23:36												
QC Source Sample: Non-SDG (A3I1540-01)												
EPA 6020B												
Aluminum	2780	25.0	50.0	ug/L	1	2780	ND	100	75-125%	---	---	E, Q-65
Antimony	27.7	0.500	1.00	ug/L	1	27.8	ND	100	75-125%	---	---	
Arsenic	62.6	0.500	1.00	ug/L	1	55.6	8.54	97	75-125%	---	---	
Barium	119	1.00	2.00	ug/L	1	55.6	62.4	102	75-125%	---	---	
Beryllium	26.9	0.100	0.200	ug/L	1	27.8	ND	97	75-125%	---	---	
Cadmium	54.4	0.100	0.200	ug/L	1	55.6	ND	98	75-125%	---	---	E, Q-65
Calcium	82900	300	600	ug/L	1	2780	78100	175	75-125%	---	---	
Chromium	55.1	1.00	2.00	ug/L	1	55.6	ND	99	75-125%	---	---	
Copper	59.7	1.00	2.00	ug/L	1	55.6	4.85	99	75-125%	---	---	
Iron	21200	25.0	50.0	ug/L	1	2780	18200	109	75-125%	---	---	
Lead	52.8	0.110	0.200	ug/L	1	55.6	0.644	94	75-125%	---	---	
Manganese	4680	0.500	1.00	ug/L	1	55.6	4580	181	75-125%	---	---	
Mercury	1.01	0.0400	0.0800	ug/L	1	1.11	ND	91	75-125%	---	---	
Nickel	57.9	1.00	2.00	ug/L	1	55.6	3.76	97	75-125%	---	---	
Silver	29.3	0.100	0.200	ug/L	1	27.8	ND	106	75-125%	---	---	
Thallium	26.0	0.100	0.200	ug/L	1	27.8	ND	93	75-125%	---	---	
Vanadium	56.8	1.00	2.00	ug/L	1	55.6	ND	102	75-125%	---	---	
Zinc	69.5	2.00	4.00	ug/L	1	55.6	15.1	98	75-125%	---	---	

Matrix Spike (23J0301-MS2)

Prepared: 10/09/23 15:15 Analyzed: 10/10/23 12:15

QC Source Sample: Non-SDG (A3I1540-01RE2)

EPA 6020B

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ANALYTICAL REPORT

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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:

A3I1542 - 12 05 23 0752

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 23J0301 - EPA 3015A							Water					
Matrix Spike (23J0301-MS2)			Prepared: 10/09/23 15:15    Analyzed: 10/10/23 12:15									
QC Source Sample: Non-SDG (A3I1540-01RE2)												
Selenium	28.7	0.500	1.00	ug/L	1	27.8	ND	103	75-125%	---	---	Q-16

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**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:****A3I1542 - 12 05 23 0752****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 23I0989 - Lachat Micro Dist - aqueous						Water						
Blank (23I0989-BLK1)			Prepared: 09/29/23 11:44		Analyzed: 09/29/23 16:52							
EPA 335.4												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23I0989-BS1)			Prepared: 09/29/23 11:44		Analyzed: 09/29/23 16:54							
EPA 335.4												
Total Cyanide	0.241	0.00500	0.00500	mg/L	1	0.250	---	96	90-110%	---	---	
Matrix Spike (23I0989-MS1)			Prepared: 09/29/23 11:44		Analyzed: 09/29/23 17:00							
QC Source Sample: Non-SDG (A3I1199-01RE1)												
EPA 335.4												
Total Cyanide	0.282	0.00500	0.00500	mg/L	1	0.250	0.0271	102	90-110%	---	---	
Matrix Spike Dup (23I0989-MSD1)			Prepared: 09/29/23 11:44		Analyzed: 09/29/23 17:02							
QC Source Sample: Non-SDG (A3I1199-01RE1)												
Total Cyanide	0.273	0.00500	0.00500	mg/L	1	0.250	0.0271	98	90-110%	3	10%	

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503-718-2323  
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125  
Portland, OR 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1542 - 12 05 23 0752****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 23J0026 - Method Prep: Aq						Water						
Blank (23J0026-BLK1)			Prepared: 10/02/23 11:49    Analyzed: 10/02/23 13:46									
<u>D6888-09</u>												
Available Cyanide	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
LCS (23J0026-BS1)			Prepared: 10/02/23 11:49    Analyzed: 10/02/23 13:47									
<u>D6888-09</u>												
Available Cyanide	0.0280	0.00100	0.00200	mg/L	1	0.0250	---	112	90-117%	---	---	
Matrix Spike (23J0026-MS1)			Prepared: 10/02/23 11:49    Analyzed: 10/02/23 13:53									
<u>QC Source Sample: Non-SDG (A3I1510-01)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0272	0.00101	0.00201	mg/L	1	0.0251	ND	108	82-130%	---	---	
Matrix Spike Dup (23J0026-MSD1)			Prepared: 10/02/23 11:49    Analyzed: 10/02/23 13:55									
<u>QC Source Sample: Non-SDG (A3I1510-01)</u>												
Available Cyanide	0.0274	0.00101	0.00201	mg/L	1	0.0251	ND	109	82-130%	0.7	11%	

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Project Manager: John Renda

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## 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 23I0987 - Microdiffusion						Water						
Blank (23I0987-BLK1)			Prepared: 09/29/23 08:43    Analyzed: 09/29/23 12:57									
<u>D4282-02</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23I0987-BS1)			Prepared: 09/29/23 08:43    Analyzed: 09/29/23 12:57									
<u>D4282-02</u>												
Free Cyanide	0.0592	0.00250	0.00500	mg/L	1	0.0667	---	89	74-120%	---	---	
LCS Dup (23I0987-BSD1)			Prepared: 09/29/23 08:43    Analyzed: 09/29/23 12:58									
<u>D4282-02</u>												
Free Cyanide	0.0591	0.00250	0.00500	mg/L	1	0.0667	---	89	74-120%	0.07	20%	
Duplicate (23I0987-DUP1)			Prepared: 09/29/23 08:43    Analyzed: 09/29/23 13:04									
<u>QC Source Sample: Non-SDG (A3I1394-01)</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	ND	---	---	---	20%	
Matrix Spike (23I0987-MS1)			Prepared: 09/29/23 08:43    Analyzed: 09/29/23 13:04									
<u>QC Source Sample: Non-SDG (A3I1394-01)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0599	0.00250	0.00500	mg/L	1	0.0667	ND	90	74-120%	---	---	

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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 97219Project: **Gasco-MGP Only Mon.Wells 3Q 2023 Perf. Mon**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3I1542 - 12 05 23 0752****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: 23J0224							
A3I1542-01	Water	NWTPH-Dx	09/27/23 10:25	10/06/23 11:11	1000mL/5mL	1000mL/5mL	1.00
A3I1542-02	Water	NWTPH-Dx	09/27/23 11:20	10/06/23 11:11	1040mL/5mL	1000mL/5mL	0.96

**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: 23J0169							
A3I1542-01	Water	NWTPH-Gx (MS)	09/27/23 10:25	10/05/23 12:17	5mL/5mL	5mL/5mL	1.00
Batch: 23J0216							
A3I1542-02RE1	Water	NWTPH-Gx (MS)	09/27/23 11:20	10/06/23 10:22	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: 23J0169							
A3I1542-01	Water	EPA 8260D	09/27/23 10:25	10/05/23 12:17	5mL/5mL	5mL/5mL	1.00
A3I1542-03	Water	EPA 8260D	09/27/23 11:45	10/05/23 12:17	5mL/5mL	5mL/5mL	1.00
Batch: 23J0216							
A3I1542-02RE1	Water	EPA 8260D	09/27/23 11:20	10/06/23 10:22	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: 23I0997							
A3I1542-01	Water	EPA 8270E LVI	09/27/23 10:25	09/29/23 09:28	123.57mL/5mL	125mL/5mL	1.01
A3I1542-02	Water	EPA 8270E LVI	09/27/23 11:20	09/29/23 09:28	88.75mL/5mL	125mL/5mL	1.41

**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: 23J0301							

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Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3I1542-01	Water	EPA 6020B	09/27/23 10:25	10/09/23 15:15	45mL/50mL	45mL/50mL	1.00
A3I1542-01RE1	Water	EPA 6020B	09/27/23 10:25	10/09/23 15:15	45mL/50mL	45mL/50mL	1.00
A3I1542-02	Water	EPA 6020B	09/27/23 11:20	10/09/23 15:15	45mL/50mL	45mL/50mL	1.00
A3I1542-02RE1	Water	EPA 6020B	09/27/23 11:20	10/09/23 15:15	45mL/50mL	45mL/50mL	1.00
A3I1542-02RE2	Water	EPA 6020B	09/27/23 11:20	10/09/23 15:15	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
<b>Batch: 23I0989</b>							
A3I1542-01	Water	EPA 335.4	09/27/23 10:25	09/29/23 11:44	6mL/6mL	6mL/6mL	1.00
A3I1542-02RE1	Water	EPA 335.4	09/27/23 11:20	09/29/23 11:44	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
<b>Batch: 23J0026</b>							
A3I1542-01	Water	D6888-09	09/27/23 10:25	10/02/23 11:49	5mL/5mL	5mL/5mL	1.00
A3I1542-02	Water	D6888-09	09/27/23 11:20	10/02/23 11:49	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
<b>Batch: 23I0987</b>							
A3I1542-01	Water	D4282-02	09/27/23 10:25	09/29/23 08:43	3mL/3mL	3mL/3mL	1.00
A3I1542-02	Water	D4282-02	09/27/23 11:20	09/29/23 08:43	3mL/3mL	3mL/3mL	1.00

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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:**

**A3I1542 - 12 05 23 0752**

## QUALIFIER DEFINITIONS

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

#### Apex Laboratories

- E** Estimated Value. The result is above the calibration range of the instrument.
- F-15** Results for diesel are estimated due to overlap from the reported oil result.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- PRES** Incomplete field preservation. Additional preservative was added to adjust the pH within the appropriate range for this analysis.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- 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-29** Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. 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
- 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.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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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.

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### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)** -

**EPA ID: OR01039**

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

**Apex Laboratories**

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

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

**Secondary Accreditations**

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

**Subcontract Laboratory Accreditations**

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

**Field Testing Parameters**

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

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Project Manager: John Renda

Report ID:

A3I1542 - 12 05 23 0752

## APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A3 I1542  
Project/Project #: Gasco-MGP only Mon. Wells 3Q 2023 Perf.  
Delivery Info: 000029-02.84  
Date/time received: 9/28/23 @ 822 By: JS T-01.001E

Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 9/28/23 @ 910 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.8</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>y</u>						
Temp. blanks? (Y/N)	<u>y</u>						
Ice type: (Gel/Real/Other)	<u>real</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: Yes ☒ No ☐Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 9/28/23 @ 1144 By: RKPAll samples intact? Yes ☒ No ☐ Comments: \_\_\_\_\_Bottle labels/COCs agree? Yes ☒ No ☐ Comments: \_\_\_\_\_COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: \_\_\_\_\_Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments: \_\_\_\_\_

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☐ No ☒ NA ☐ pH ID: A23 I172Comments: ph of cyanide bottle for 678-092723-36 = 7 A23 A0348Additional information: TB # 3294

Labeled by:

RKP

Witness:

DJS

Cooler Inspected by:

RKP

Form Y-003 R-01

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