



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Friday, May 19, 2023

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

RE: A3C0601 - Gasco-MGP Only Mon. Wells 1Q 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 A3C0601, which was received by the laboratory on 3/16/2023 at 8:28:00AM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 2.6 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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.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

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL REPORT FOR SAMPLES**SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS-031523-18	A3C0601-01	WG	03/15/23 09:55	03/16/23 08:28
GS-031523-19	A3C0601-02	WG	03/15/23 10:15	03/16/23 08:28
GS-031523-20	A3C0601-03	WG	03/15/23 10:45	03/16/23 08:28
GS-031523-21	A3C0601-04	WG	03/15/23 11:00	03/16/23 08:28
GS-031523-22	A3C0601-05	WG	03/15/23 13:20	03/16/23 08:28
GS-031523-23	A3C0601-06	WG	03/15/23 13:30	03/16/23 08:28
GS-031523-24	A3C0601-07	WG	03/15/23 14:15	03/16/23 08:28
GS-031523-25	A3C0601-08	WG	03/15/23 14:25	03/16/23 08:28
GS-031523-26	A3C0601-09	WG	03/15/23 14:35	03/16/23 08:28
TB-031523	A3C0601-10	W	03/15/23 15:00	03/16/23 08:28

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-18 (A3C0601-01RE1)				Matrix: WG		Batch: 23C0904		
Acetone	ND	20.0	20.0	ug/L	1	03/24/23 01:50	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	03/24/23 01:50	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/24/23 01:50	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/24/23 01:50	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/24/23 01:50	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/24/23 01:50	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 01:50	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/24/23 01:50	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 01:50	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 01:50	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 01:50	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
GS-031523-18 (A3C0601-01RE1)				Matrix: WG		Batch: 23C0904		
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/24/23 01:50	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/24/23 01:50	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/24/23 01:50	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	03/24/23 01:50	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	03/24/23 01:50	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/24/23 01:50	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/24/23 01:50	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 01:50	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/24/23 01:50	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/24/23 01:50	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/24/23 01:50	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/24/23 01:50	EPA 8260D	

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Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-18 (A3C0601-01RE1)		Matrix: WG			Batch: 23C0904			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 99 %	Limits: 80-120 %	1		03/24/23 01:50	EPA 8260D	
Toluene-d8 (Surr)		103 %	80-120 %	1		03/24/23 01:50	EPA 8260D	
4-Bromofluorobenzene (Surr)		98 %	80-120 %	1		03/24/23 01:50	EPA 8260D	
GS-031523-19 (A3C0601-02RE1)		Matrix: WG			Batch: 23C0904			
Acetone	ND	200	400	ug/L	20	03/24/23 08:53	EPA 8260D	
Acrylonitrile	ND	20.0	40.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Benzene	13.4	2.00	4.00	ug/L	20	03/24/23 08:53	EPA 8260D	
Bromobenzene	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Bromochloromethane	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Bromodichloromethane	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Bromoform	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Bromomethane	ND	100	100	ug/L	20	03/24/23 08:53	EPA 8260D	
2-Butanone (MEK)	ND	100	200	ug/L	20	03/24/23 08:53	EPA 8260D	
n-Butylbenzene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
sec-Butylbenzene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
tert-Butylbenzene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Carbon disulfide	ND	100	200	ug/L	20	03/24/23 08:53	EPA 8260D	
Carbon tetrachloride	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Chlorobenzene	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Chloroethane	ND	100	100	ug/L	20	03/24/23 08:53	EPA 8260D	
Chloroform	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Chloromethane	ND	50.0	100	ug/L	20	03/24/23 08:53	EPA 8260D	
2-Chlorotoluene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
4-Chlorotoluene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Dibromochloromethane	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	50.0	100	ug/L	20	03/24/23 08:53	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Dibromomethane	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,2-Dichlorobenzene	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,3-Dichlorobenzene	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,4-Dichlorobenzene	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Dichlorodifluoromethane	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,1-Dichloroethane	ND	4.00	8.00	ug/L	20	03/24/23 08:53	EPA 8260D	

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Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-19 (A3C0601-02RE1)				Matrix: WG		Batch: 23C0904		
1,2-Dichloroethane (EDC)	ND	4.00	8.00	ug/L	20	03/24/23 08:53	EPA 8260D	
1,2-Dichloropropane	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,3-Dichloropropane	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
2,2-Dichloropropane	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,1-Dichloropropene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
cis-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
trans-1,3-Dichloropropene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Ethylbenzene	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Hexachlorobutadiene	ND	50.0	100	ug/L	20	03/24/23 08:53	EPA 8260D	
2-Hexanone	ND	100	200	ug/L	20	03/24/23 08:53	EPA 8260D	
Isopropylbenzene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
4-Isopropyltoluene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Methylene chloride	ND	100	200	ug/L	20	03/24/23 08:53	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	100	200	ug/L	20	03/24/23 08:53	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
n-Propylbenzene	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Styrene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	4.00	8.00	ug/L	20	03/24/23 08:53	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Tetrachloroethene (PCE)	ND	4.00	8.00	ug/L	20	03/24/23 08:53	EPA 8260D	
Toluene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,2,3-Trichlorobenzene	ND	20.0	40.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,2,4-Trichlorobenzene	ND	20.0	40.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,1,1-Trichloroethane	ND	4.00	8.00	ug/L	20	03/24/23 08:53	EPA 8260D	
1,1,2-Trichloroethane	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Trichlorofluoromethane	ND	20.0	40.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,2,3-Trichloropropane	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,2,4-Trimethylbenzene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
1,3,5-Trimethylbenzene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
m,p-Xylene	ND	10.0	20.0	ug/L	20	03/24/23 08:53	EPA 8260D	
o-Xylene	ND	5.00	10.0	ug/L	20	03/24/23 08:53	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %	1	03/24/23 08:53	EPA 8260D	
Toluene-d8 (Surr)		103 %		80-120 %	1	03/24/23 08:53	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
GS-031523-19 (A3C0601-02RE1)		Matrix: WG			Batch: 23C0904			
Surrogate: 4-Bromofluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %	1	03/24/23 08:53	EPA 8260D	
GS-031523-19 (A3C0601-02RE2)		Matrix: WG			Batch: 23C1003			
Naphthalene	1840	20.0	40.0	ug/L	20	03/25/23 19:59	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %	1	03/25/23 19:59	EPA 8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	03/25/23 19:59	EPA 8260D	
4-Bromofluorobenzene (Surr)		97 %		80-120 %	1	03/25/23 19:59	EPA 8260D	
GS-031523-20 (A3C0601-03RE1)		Matrix: WG			Batch: 23C0904			
Acetone	24.4	10.0	20.0	ug/L	1	03/24/23 02:12	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	03/24/23 02:12	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/24/23 02:12	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/24/23 02:12	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/24/23 02:12	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/24/23 02:12	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-20 (A3C0601-03RE1)				Matrix: WG		Batch: 23C0904		
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/24/23 02:12	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/24/23 02:12	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/24/23 02:12	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/24/23 02:12	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	03/24/23 02:12	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	

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Darwin Thomas, Business Development Director



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 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-20 (A3C0601-03RE1)		Matrix: WG			Batch: 23C0904			
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/24/23 02:12	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/24/23 02:12	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/24/23 02:12	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>03/24/23 02:12</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 02:12</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 02:12</i>	<i>EPA 8260D</i>	
GS-031523-21 (A3C0601-04RE1)		Matrix: WG			Batch: 23C0904			
Acetone	23.8	10.0	20.0	ug/L	1	03/24/23 02:35	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	03/24/23 02:35	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/24/23 02:35	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/24/23 02:35	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/24/23 02:35	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/24/23 02:35	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	

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Darwin Thomas, Business Development Director



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 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-21 (A3C0601-04RE1)				Matrix: WG		Batch: 23C0904		
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/24/23 02:35	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/24/23 02:35	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/24/23 02:35	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/24/23 02:35	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	03/24/23 02:35	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	

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Darwin Thomas, Business Development Director



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 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-21 (A3C0601-04RE1)		Matrix: WG			Batch: 23C0904			
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/24/23 02:35	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/24/23 02:35	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/24/23 02:35	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>03/24/23 02:35</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 02:35</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 02:35</i>	<i>EPA 8260D</i>	
GS-031523-22 (A3C0601-05RE1)		Matrix: WG			Batch: 23C0904			
Acetone	ND	10.0	20.0	ug/L	1	03/24/23 02:57	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	03/24/23 02:57	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/24/23 02:57	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/24/23 02:57	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/24/23 02:57	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	

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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 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-22 (A3C0601-05RE1)				Matrix: WG		Batch: 23C0904		
Chloromethane	ND	2.50	5.00	ug/L	1	03/24/23 02:57	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/24/23 02:57	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/24/23 02:57	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/24/23 02:57	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/24/23 02:57	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	03/24/23 02:57	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-22 (A3C0601-05RE1)		Matrix: WG			Batch: 23C0904			
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/24/23 02:57	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/24/23 02:57	EPA 8260D	
o-Xylene	0.420	0.250	0.500	ug/L	1	03/24/23 02:57	EPA 8260D	J
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>03/24/23 02:57</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 02:57</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 02:57</i>	<i>EPA 8260D</i>	

GS-031523-23 (A3C0601-06RE1)**Matrix: WG****Batch: 23C0904**

Acetone	ND	10.0	20.0	ug/L	1	03/24/23 03:19	EPA 8260D
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/24/23 03:19	EPA 8260D
Benzene	ND	0.100	0.200	ug/L	1	03/24/23 03:19	EPA 8260D
Bromobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D
Bromoform	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D
Bromomethane	ND	5.00	5.00	ug/L	1	03/24/23 03:19	EPA 8260D
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/24/23 03:19	EPA 8260D
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/24/23 03:19	EPA 8260D

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Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-23 (A3C0601-06RE1)		Matrix: WG			Batch: 23C0904			
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/24/23 03:19	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/24/23 03:19	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/24/23 03:19	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/24/23 03:19	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/24/23 03:19	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/24/23 03:19	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-23 (A3C0601-06RE1)		Matrix: WG			Batch: 23C0904			
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	03/24/23 03:19	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/24/23 03:19	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/24/23 03:19	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/24/23 03:19	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>100 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>03/24/23 03:19</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 03:19</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 03:19</i>	<i>EPA 8260D</i>

GS-031523-24 (A3C0601-07RE1)**Matrix: WG****Batch: 23C0904**

Acetone	ND	10.0	20.0	ug/L	1	03/24/23 03:41	EPA 8260D
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/24/23 03:41	EPA 8260D
Benzene	ND	0.100	0.200	ug/L	1	03/24/23 03:41	EPA 8260D
Bromobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D
Bromoform	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D
Bromomethane	ND	5.00	5.00	ug/L	1	03/24/23 03:41	EPA 8260D
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/24/23 03:41	EPA 8260D

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-24 (A3C0601-07RE1)				Matrix: WG		Batch: 23C0904		
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/24/23 03:41	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/24/23 03:41	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/24/23 03:41	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/24/23 03:41	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/24/23 03:41	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-24 (A3C0601-07RE1)		Matrix: WG			Batch: 23C0904			
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/24/23 03:41	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	03/24/23 03:41	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.590	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	J
Naphthalene	ND	2.00	2.00	ug/L	1	03/24/23 03:41	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/24/23 03:41	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/24/23 03:41	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/24/23 03:41	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>101 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>03/24/23 03:41</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 03:41</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>03/24/23 03:41</i>	<i>EPA 8260D</i>

GS-031523-25 (A3C0601-08RE1)**Matrix: WG****Batch: 23C0904**

Acetone	ND	10.0	20.0	ug/L	1	03/24/23 04:04	EPA 8260D
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/24/23 04:04	EPA 8260D
Benzene	ND	0.100	0.200	ug/L	1	03/24/23 04:04	EPA 8260D
Bromobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-25 (A3C0601-08RE1)				Matrix: WG		Batch: 23C0904		
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/24/23 04:04	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/24/23 04:04	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/24/23 04:04	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/24/23 04:04	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-25 (A3C0601-08RE1)		Matrix: WG			Batch: 23C0904			
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/24/23 04:04	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/24/23 04:04	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/24/23 04:04	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/24/23 04:04	EPA 8260D	
Methyl tert-butyl ether (MTBE)	0.630	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	J
Naphthalene	ND	2.00	2.00	ug/L	1	03/24/23 04:04	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/24/23 04:04	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/24/23 04:04	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/24/23 04:04	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %	1	03/24/23 04:04	EPA 8260D	
Toluene-d8 (Surr)		104 %		80-120 %	1	03/24/23 04:04	EPA 8260D	
4-Bromofluorobenzene (Surr)		98 %		80-120 %	1	03/24/23 04:04	EPA 8260D	

GS-031523-26 (A3C0601-09RE1)**Matrix: WG****Batch: 23C0904**

Acetone	ND	20.0	20.0	ug/L	1	03/24/23 04:26	EPA 8260D
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Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-26 (A3C0601-09RE1)				Matrix: WG		Batch: 23C0904		
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	03/24/23 04:26	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/24/23 04:26	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/24/23 04:26	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/24/23 04:26	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/24/23 04:26	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	

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Darwin Thomas, Business Development Director



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 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-26 (A3C0601-09RE1)		Matrix: WG			Batch: 23C0904			
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/24/23 04:26	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/24/23 04:26	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/24/23 04:26	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/24/23 04:26	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	03/24/23 04:26	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/24/23 04:26	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/24/23 04:26	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/24/23 04:26	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %	1	03/24/23 04:26	EPA 8260D	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-26 (A3C0601-09RE1)		Matrix: WG			Batch: 23C0904			
Surrogate: Toluene-d8 (Surr)		Recovery: 103 %	Limits: 80-120 %	1	03/24/23 04:26	EPA 8260D		
4-Bromofluorobenzene (Surr)		97 %	80-120 %	1	03/24/23 04:26	EPA 8260D		
TB-031523 (A3C0601-10)		Matrix: W			Batch: 23C0904			
Acetone	ND	10.0	20.0	ug/L	1	03/24/23 01:28	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	03/24/23 01:28	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/24/23 01:28	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/24/23 01:28	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/24/23 01:28	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/24/23 01:28	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-031523 (A3C0601-10)		Matrix: W			Batch: 23C0904			
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/24/23 01:28	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/24/23 01:28	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/24/23 01:28	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	03/24/23 01:28	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	03/24/23 01:28	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	

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6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB-031523 (A3C0601-10)		Matrix: W			Batch: 23C0904			
Vinyl chloride	ND	0.200	0.400	ug/L	1	03/24/23 01:28	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	03/24/23 01:28	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	03/24/23 01:28	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %	1	03/24/23 01:28	EPA 8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	03/24/23 01:28	EPA 8260D	
4-Bromofluorobenzene (Surr)		99 %		80-120 %	1	03/24/23 01:28	EPA 8260D	

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Project Manager: John Renda

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-19 (A3C0601-02)		Matrix: WG			Batch: 23C1096			
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	03/28/23 14:11	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	03/28/23 14:11	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	03/28/23 14:11	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	03/28/23 14:11	EPA 8260D SIM	
Vinyl chloride	ND	0.250	0.500	ug/L	25	03/28/23 14:11	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %	Limits: 80-120 %	1	03/28/23 14:11	EPA 8260D SIM		
Toluene-d8 (Surr)		100 %	80-120 %	1	03/28/23 14:11	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		92 %	80-120 %	1	03/28/23 14:11	EPA 8260D SIM		

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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-031523-18 (A3C0601-01)		Matrix: WG			Batch: 23C0677			
Acenaphthene	ND	0.0185	0.0369	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Acenaphthylene	0.231	0.0185	0.0369	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Anthracene	0.117	0.0185	0.0369	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00923	0.0185	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00923	0.0185	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00923	0.0185	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00923	0.0185	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0185	0.0369	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Chrysene	ND	0.00923	0.0185	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00923	0.0185	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Fluoranthene	ND	0.0185	0.0369	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Fluorene	ND	0.0369	0.0369	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00923	0.0185	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0369	0.0739	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0369	0.0739	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Naphthalene	ND	0.0369	0.0739	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Phenanthrene	ND	0.0369	0.0739	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Pyrene	ND	0.0185	0.0369	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Carbazole	ND	0.0185	0.0369	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Dibenzofuran	ND	0.0185	0.0369	ug/L	1	03/17/23 20:55	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 123 %		Limits: 78-134 %	1	03/17/23 20:55	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		124 %		80-132 %	1	03/17/23 20:55	EPA 8270E LVI	

GS-031523-19 (A3C0601-02)

Matrix: WG

Batch: 23C0677

Acenaphthene	17.3	3.53	7.07	ug/L	200	03/17/23 19:49	EPA 8270E LVI
Acenaphthylene	ND	3.53	7.07	ug/L	200	03/17/23 19:49	EPA 8270E LVI
Anthracene	ND	3.53	7.07	ug/L	200	03/17/23 19:49	EPA 8270E LVI
Benz(a)anthracene	ND	1.77	3.53	ug/L	200	03/17/23 19:49	EPA 8270E LVI
Benzo(a)pyrene	ND	1.77	3.53	ug/L	200	03/17/23 19:49	EPA 8270E LVI
Benzo(b)fluoranthene	ND	1.77	3.53	ug/L	200	03/17/23 19:49	EPA 8270E LVI
Benzo(k)fluoranthene	ND	1.77	3.53	ug/L	200	03/17/23 19:49	EPA 8270E LVI
Benzo(g,h,i)perylene	ND	3.53	7.07	ug/L	200	03/17/23 19:49	EPA 8270E LVI
Chrysene	ND	1.77	3.53	ug/L	200	03/17/23 19:49	EPA 8270E LVI

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Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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-031523-19 (A3C0601-02)		Matrix: WG			Batch: 23C0677			
Dibenz(a,h)anthracene	ND	1.77	3.53	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
Fluoranthene	ND	3.53	7.07	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
Fluorene	14.5	3.53	7.07	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	1.77	3.53	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
1-Methylnaphthalene	37.7	7.07	14.1	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
2-Methylnaphthalene	21.0	7.07	14.1	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
Naphthalene	1100	7.07	14.1	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
Phenanthrene	13.9	7.07	14.1	ug/L	200	03/17/23 19:49	EPA 8270E LVI	J
Pyrene	ND	3.53	7.07	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
Carbazole	12.4	3.53	7.07	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
Dibenzofuran	ND	3.53	7.07	ug/L	200	03/17/23 19:49	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery:	848 %	Limits:	78-134 %	200	03/17/23 19:49	EPA 8270E LVI S-05
Benzo(a)pyrene-d12 (Surr)			88 %		80-132 %	200	03/17/23 19:49	EPA 8270E LVI S-05
GS-031523-20 (A3C0601-03)		Matrix: WG			Batch: 23C0677			
Acenaphthene	0.822	0.0195	0.0390	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Acenaphthylene	0.213	0.0195	0.0390	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Anthracene	0.219	0.0195	0.0390	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Benz(a)anthracene	0.0136	0.00974	0.0195	ug/L	1	03/17/23 21:28	EPA 8270E LVI	J
Benzo(a)pyrene	ND	0.00974	0.0195	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00974	0.0195	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00974	0.0195	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0195	0.0390	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Chrysene	ND	0.00974	0.0195	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00974	0.0195	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Fluoranthene	ND	0.0195	0.0390	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Fluorene	ND	0.0390	0.0390	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00974	0.0195	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0390	0.0779	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0390	0.0779	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Naphthalene	0.110	0.0390	0.0779	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Phenanthrene	ND	0.0390	0.0779	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Pyrene	ND	0.0195	0.0390	ug/L	1	03/17/23 21:28	EPA 8270E LVI	

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Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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-031523-20 (A3C0601-03)		Matrix: WG			Batch: 23C0677			
Carbazole	ND	0.0195	0.0390	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Dibenzofuran	ND	0.0195	0.0390	ug/L	1	03/17/23 21:28	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 123 %		Limits: 78-134 %	1	03/17/23 21:28	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		127 %		80-132 %	1	03/17/23 21:28	EPA 8270E LVI	
GS-031523-21 (A3C0601-04)		Matrix: WG			Batch: 23C0677			
Acenaphthene	0.0993	0.0187	0.0373	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Acenaphthylene	0.221	0.0187	0.0373	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Anthracene	0.228	0.0187	0.0373	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Benz(a)anthracene	ND	0.0187	0.0187	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00933	0.0187	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00933	0.0187	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00933	0.0187	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0187	0.0373	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Chrysene	ND	0.00933	0.0187	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00933	0.0187	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Fluoranthene	ND	0.0187	0.0373	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Fluorene	ND	0.0373	0.0373	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00933	0.0187	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
1-Methylnaphthalene	0.0625	0.0373	0.0746	ug/L	1	03/17/23 22:01	EPA 8270E LVI	J
2-Methylnaphthalene	ND	0.0373	0.0746	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Naphthalene	0.146	0.0373	0.0746	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Phenanthrene	0.0452	0.0373	0.0746	ug/L	1	03/17/23 22:01	EPA 8270E LVI	J
Pyrene	0.0322	0.0187	0.0373	ug/L	1	03/17/23 22:01	EPA 8270E LVI	J
Carbazole	ND	0.0373	0.0373	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Dibenzofuran	ND	0.0187	0.0373	ug/L	1	03/17/23 22:01	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 121 %		Limits: 78-134 %	1	03/17/23 22:01	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		128 %		80-132 %	1	03/17/23 22:01	EPA 8270E LVI	
GS-031523-22 (A3C0601-05)		Matrix: WG			Batch: 23C0677			
Acenaphthene	0.270	0.0184	0.0367	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Acenaphthylene	0.441	0.0184	0.0367	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Anthracene	0.119	0.0184	0.0367	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00919	0.0184	ug/L	1	03/17/23 22:34	EPA 8270E LVI	

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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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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-031523-22 (A3C0601-05)		Matrix: WG			Batch: 23C0677			
Benzo(a)pyrene	ND	0.00919	0.0184	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00919	0.0184	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00919	0.0184	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0184	0.0367	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Chrysene	ND	0.00919	0.0184	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00919	0.0184	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Fluoranthene	0.0514	0.0184	0.0367	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Fluorene	0.108	0.0184	0.0367	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00919	0.0184	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0367	0.0735	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0367	0.0735	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Naphthalene	0.0570	0.0367	0.0735	ug/L	1	03/17/23 22:34	EPA 8270E LVI	J
Phenanthrene	0.128	0.0367	0.0735	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Pyrene	0.0593	0.0184	0.0367	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Carbazole	ND	0.0184	0.0367	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Dibenzofuran	ND	0.0184	0.0367	ug/L	1	03/17/23 22:34	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 123 %		Limits: 78-134 %	1	03/17/23 22:34	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		126 %		80-132 %	1	03/17/23 22:34	EPA 8270E LVI	
GS-031523-23 (A3C0601-06)		Matrix: WG			Batch: 23C0677			
Acenaphthene	0.0612	0.0176	0.0352	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Acenaphthylene	0.0841	0.0176	0.0352	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Anthracene	0.222	0.0176	0.0352	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Benz(a)anthracene	ND	0.0551	0.0551	ug/L	1	03/17/23 23:07	EPA 8270E LVI	R-02
Benzo(a)pyrene	ND	0.00881	0.0176	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Benzo(b)fluoranthene	0.00969	0.00881	0.0176	ug/L	1	03/17/23 23:07	EPA 8270E LVI	J
Benzo(k)fluoranthene	ND	0.00881	0.0176	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0176	0.0352	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Chrysene	ND	0.00881	0.0176	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00881	0.0176	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Fluoranthene	0.556	0.0176	0.0352	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Fluorene	0.0234	0.0176	0.0352	ug/L	1	03/17/23 23:07	EPA 8270E LVI	J
Indeno(1,2,3-cd)pyrene	ND	0.00881	0.0176	ug/L	1	03/17/23 23:07	EPA 8270E LVI	

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Darwin Thomas, Business Development Director



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Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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-031523-23 (A3C0601-06)		Matrix: WG			Batch: 23C0677			
1-Methylnaphthalene	ND	0.0352	0.0705	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0352	0.0705	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Naphthalene	ND	0.0352	0.0705	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Phenanthrene	ND	0.0352	0.0705	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Pyrene	1.35	0.0176	0.0352	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Carbazole	ND	0.0176	0.0352	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Dibenzofuran	ND	0.0176	0.0352	ug/L	1	03/17/23 23:07	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 121 %		Limits: 78-134 %	1	03/17/23 23:07	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		128 %		80-132 %	1	03/17/23 23:07	EPA 8270E LVI	
GS-031523-24 (A3C0601-07)		Matrix: WG			Batch: 23C0677			
Acenaphthene	ND	0.0184	0.0367	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Acenaphthylene	ND	0.0184	0.0367	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Anthracene	ND	0.0184	0.0367	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00918	0.0184	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00918	0.0184	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00918	0.0184	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00918	0.0184	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0184	0.0367	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Chrysene	ND	0.00918	0.0184	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00918	0.0184	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Fluoranthene	ND	0.0184	0.0367	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Fluorene	ND	0.0184	0.0367	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00918	0.0184	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0367	0.0734	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0367	0.0734	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Naphthalene	ND	0.0367	0.0734	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Phenanthrene	ND	0.0367	0.0734	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Pyrene	ND	0.0184	0.0367	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Carbazole	ND	0.0184	0.0367	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Dibenzofuran	ND	0.0184	0.0367	ug/L	1	03/17/23 23:40	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery: 123 %		Limits: 78-134 %	1	03/17/23 23:40	EPA 8270E LVI	
Benzo(a)pyrene-d12 (Surr)		124 %		80-132 %	1	03/17/23 23:40	EPA 8270E LVI	

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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 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

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-031523-25 (A3C0601-08)		Matrix: WG			Batch: 23C0677			
Acenaphthene	ND	0.0193	0.0387	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Acenaphthylene	ND	0.0193	0.0387	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Anthracene	ND	0.0193	0.0387	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Benz(a)anthracene	ND	0.00967	0.0193	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00967	0.0193	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00967	0.0193	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00967	0.0193	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0193	0.0387	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Chrysene	ND	0.00967	0.0193	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Dibenz(a,h)anthracene	ND	0.00967	0.0193	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Fluoranthene	ND	0.0193	0.0387	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Fluorene	ND	0.0193	0.0387	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00967	0.0193	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0387	0.0774	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0387	0.0774	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Naphthalene	ND	0.0387	0.0774	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Phenanthrene	ND	0.0387	0.0774	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Pyrene	ND	0.0193	0.0387	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Carbazole	ND	0.0193	0.0387	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
Dibenzofuran	ND	0.0193	0.0387	ug/L	1	03/18/23 00:13	EPA 8270E LVI	
<i>Surrogate: Acenaphthylene-d8 (Surr)</i>		<i>Recovery: 121 %</i>		<i>Limits: 78-134 %</i>	<i>1</i>	<i>03/18/23 00:13</i>	<i>EPA 8270E LVI</i>	
<i>Benzo(a)pyrene-d12 (Surr)</i>		<i>124 %</i>		<i>80-132 %</i>	<i>1</i>	<i>03/18/23 00:13</i>	<i>EPA 8270E LVI</i>	

GS-031523-26 (A3C0601-09)**Matrix: WG****Batch: 23C0677**

Acenaphthene	ND	0.0162	0.0323	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Acenaphthylene	ND	0.0162	0.0323	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Anthracene	0.0279	0.0162	0.0323	ug/L	1	03/18/23 00:46	EPA 8270E LVI	J
Benz(a)anthracene	ND	0.00808	0.0162	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Benzo(a)pyrene	ND	0.00808	0.0162	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Benzo(b)fluoranthene	ND	0.00808	0.0162	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Benzo(k)fluoranthene	ND	0.00808	0.0162	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Benzo(g,h,i)perylene	ND	0.0162	0.0323	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Chrysene	ND	0.00808	0.0162	ug/L	1	03/18/23 00:46	EPA 8270E LVI	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

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-031523-26 (A3C0601-09)		Matrix: WG			Batch: 23C0677			
Dibenz(a,h)anthracene	ND	0.00808	0.0162	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Fluoranthene	ND	0.0162	0.0323	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Fluorene	ND	0.0162	0.0323	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Indeno(1,2,3-cd)pyrene	ND	0.00808	0.0162	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
1-Methylnaphthalene	ND	0.0323	0.0647	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
2-Methylnaphthalene	ND	0.0323	0.0647	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Naphthalene	ND	0.0323	0.0647	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Phenanthrene	ND	0.0323	0.0647	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Pyrene	ND	0.0162	0.0323	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Carbazole	ND	0.0162	0.0323	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Dibenzofuran	ND	0.0162	0.0323	ug/L	1	03/18/23 00:46	EPA 8270E LVI	
Surrogate: Acenaphthylene-d8 (Surr)		Recovery:	122 %	Limits:	78-134 %	1	03/18/23 00:46	EPA 8270E LVI
Benzo(a)pyrene-d12 (Surr)			125 %		80-132 %	1	03/18/23 00:46	EPA 8270E LVI

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Page 32 of 93



ANALYTICAL REPORT

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Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-18 (A3C0601-01) Matrix: WG								
Batch: 23C1137								
Aluminum	149	25.0	50.0	ug/L	1	03/30/23 02:54	EPA 6020B	
Barium	27.3	1.00	2.00	ug/L	1	03/30/23 02:54	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	03/30/23 02:54	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 02:54	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 02:54	EPA 6020B	
GS-031523-18 (A3C0601-01RE1) Matrix: WG								
Batch: 23C1137								
Iron	559000	2500	5000	ug/L	100	03/30/23 14:57	EPA 6020B	
Manganese	8520	50.0	100	ug/L	100	03/30/23 14:57	EPA 6020B	
GS-031523-18 (A3C0601-01RE2) Matrix: WG								
Batch: 23C1137								
Arsenic	2.16	0.500	1.00	ug/L	1	03/30/23 15:02	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 15:02	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	03/30/23 15:02	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	03/30/23 15:02	EPA 6020B	
Nickel	1.98	1.00	2.00	ug/L	1	03/30/23 15:02	EPA 6020B	J
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 15:02	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	03/30/23 15:02	EPA 6020B	
Zinc	5.07	2.00	4.00	ug/L	1	03/30/23 15:02	EPA 6020B	
GS-031523-18 (A3C0601-01RE3) Matrix: WG								
Batch: 23C1137								
Antimony	ND	5.00	10.0	ug/L	10	03/30/23 15:22	EPA 6020B	
Silver	ND	1.00	2.00	ug/L	10	03/30/23 15:22	EPA 6020B	
GS-031523-18 (A3C0601-01RE5) Matrix: WG								
Batch: 23C1137								
Beryllium	ND	1.00	2.00	ug/L	10	03/31/23 10:47	EPA 6020B	
GS-031523-19 (A3C0601-02) Matrix: WG								
Batch: 23C1137								
Aluminum	541	25.0	50.0	ug/L	1	03/30/23 02:59	EPA 6020B	

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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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-19 (A3C0601-02)		Matrix: WG						
Arsenic	ND	0.500	1.00	ug/L	1	03/30/23 02:59	EPA 6020B	
Barium	23.9	1.00	2.00	ug/L	1	03/30/23 02:59	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 02:59	EPA 6020B	
Chromium	4.91	1.00	2.00	ug/L	1	03/30/23 02:59	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	03/30/23 02:59	EPA 6020B	
Iron	13600	25.0	50.0	ug/L	1	03/30/23 02:59	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	03/30/23 02:59	EPA 6020B	
Manganese	409	0.500	1.00	ug/L	1	03/30/23 02:59	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 02:59	EPA 6020B	
Nickel	ND	1.00	2.00	ug/L	1	03/30/23 02:59	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 02:59	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 02:59	EPA 6020B	
Vanadium	18.4	1.00	2.00	ug/L	1	03/30/23 02:59	EPA 6020B	
Zinc	4.97	2.00	4.00	ug/L	1	03/30/23 02:59	EPA 6020B	
GS-031523-19 (A3C0601-02RE1)		Matrix: WG						
Batch: 23C1137								
Antimony	ND	0.500	1.00	ug/L	1	03/30/23 15:17	EPA 6020B	
Beryllium	0.291	0.100	0.200	ug/L	1	03/30/23 15:17	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 15:17	EPA 6020B	
GS-031523-20 (A3C0601-03)		Matrix: WG						
Batch: 23C1137								
Aluminum	35.3	25.0	50.0	ug/L	1	03/30/23 03:04	EPA 6020B	J
Arsenic	ND	0.500	1.00	ug/L	1	03/30/23 03:04	EPA 6020B	
Barium	25.0	1.00	2.00	ug/L	1	03/30/23 03:04	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 03:04	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	03/30/23 03:04	EPA 6020B	
Copper	1.27	1.00	2.00	ug/L	1	03/30/23 03:04	EPA 6020B	J
Iron	1210	25.0	50.0	ug/L	1	03/30/23 03:04	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	03/30/23 03:04	EPA 6020B	
Manganese	34.9	0.500	1.00	ug/L	1	03/30/23 03:04	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 03:04	EPA 6020B	
Nickel	1.12	1.00	2.00	ug/L	1	03/30/23 03:04	EPA 6020B	J

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ANALYTICAL REPORT

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503-718-2323
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Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-20 (A3C0601-03)		Matrix: WG						
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 03:04	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 03:04	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	03/30/23 03:04	EPA 6020B	
Zinc	5.94	2.00	4.00	ug/L	1	03/30/23 03:04	EPA 6020B	
GS-031523-20 (A3C0601-03RE1)		Matrix: WG						
Batch: 23C1137								
Antimony	ND	0.500	1.00	ug/L	1	03/30/23 15:26	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	03/30/23 15:26	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 15:26	EPA 6020B	
GS-031523-21 (A3C0601-04)		Matrix: WG						
Batch: 23C1137								
Aluminum	238	25.0	50.0	ug/L	1	03/30/23 03:10	EPA 6020B	
Arsenic	1.81	0.500	1.00	ug/L	1	03/30/23 03:10	EPA 6020B	
Barium	64.4	1.00	2.00	ug/L	1	03/30/23 03:10	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 03:10	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	03/30/23 03:10	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	03/30/23 03:10	EPA 6020B	
Iron	18500	25.0	50.0	ug/L	1	03/30/23 03:10	EPA 6020B	
Lead	0.186	0.110	0.200	ug/L	1	03/30/23 03:10	EPA 6020B	J
Manganese	1930	0.500	1.00	ug/L	1	03/30/23 03:10	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 03:10	EPA 6020B	
Nickel	1.66	1.00	2.00	ug/L	1	03/30/23 03:10	EPA 6020B	J
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 03:10	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 03:10	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	03/30/23 03:10	EPA 6020B	
Zinc	8.58	2.00	4.00	ug/L	1	03/30/23 03:10	EPA 6020B	
GS-031523-21 (A3C0601-04RE1)		Matrix: WG						
Batch: 23C1137								
Antimony	ND	0.500	1.00	ug/L	1	03/30/23 15:36	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	03/30/23 15:36	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 15:36	EPA 6020B	

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ORELAP ID: OR100062

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-22 (A3C0601-05)		Matrix: WG						
Batch: 23C1137								
Aluminum	120	25.0	50.0	ug/L	1	03/30/23 03:25	EPA 6020B	
Arsenic	7.61	0.500	1.00	ug/L	1	03/30/23 03:25	EPA 6020B	
Barium	32.8	1.00	2.00	ug/L	1	03/30/23 03:25	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	03/30/23 03:25	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	03/30/23 03:25	EPA 6020B	
Iron	26700	25.0	50.0	ug/L	1	03/30/23 03:25	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	03/30/23 03:25	EPA 6020B	
Manganese	2600	0.500	1.00	ug/L	1	03/30/23 03:25	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 03:25	EPA 6020B	
Nickel	1.07	1.00	2.00	ug/L	1	03/30/23 03:25	EPA 6020B	J
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 03:25	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	03/30/23 03:25	EPA 6020B	
Zinc	4.03	2.00	4.00	ug/L	1	03/30/23 03:25	EPA 6020B	
GS-031523-22 (A3C0601-05RE1)		Matrix: WG						
Batch: 23C1137								
Antimony	ND	0.500	1.00	ug/L	1	03/30/23 15:41	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	03/30/23 15:41	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 15:41	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 15:41	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 15:41	EPA 6020B	
GS-031523-23 (A3C0601-06)		Matrix: WG						
Batch: 23C1137								
Aluminum	553	25.0	50.0	ug/L	1	03/30/23 03:31	EPA 6020B	
Arsenic	ND	0.500	1.00	ug/L	1	03/30/23 03:31	EPA 6020B	
Barium	37.9	1.00	2.00	ug/L	1	03/30/23 03:31	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	03/30/23 03:31	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	03/30/23 03:31	EPA 6020B	
Iron	2030	25.0	50.0	ug/L	1	03/30/23 03:31	EPA 6020B	
Lead	0.165	0.110	0.200	ug/L	1	03/30/23 03:31	EPA 6020B	J
Manganese	1030	0.500	1.00	ug/L	1	03/30/23 03:31	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 03:31	EPA 6020B	

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-23 (A3C0601-06)		Matrix: WG						
Nickel	ND	1.00	2.00	ug/L	1	03/30/23 03:31	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 03:31	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	03/30/23 03:31	EPA 6020B	
Zinc	5.93	2.00	4.00	ug/L	1	03/30/23 03:31	EPA 6020B	
GS-031523-23 (A3C0601-06RE1)		Matrix: WG						
Batch: 23C1137								
Antimony	ND	0.500	1.00	ug/L	1	03/30/23 15:46	EPA 6020B	
Beryllium	ND	0.100	0.200	ug/L	1	03/30/23 15:46	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 15:46	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 15:46	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 15:46	EPA 6020B	
GS-031523-24 (A3C0601-07)		Matrix: WG						
Batch: 23C1137								
Barium	109	1.00	2.00	ug/L	1	03/30/23 03:36	EPA 6020B	
GS-031523-24 (A3C0601-07RE1)		Matrix: WG						
Batch: 23C1137								
Manganese	4590	5.00	10.0	ug/L	10	03/30/23 15:51	EPA 6020B	
GS-031523-24 (A3C0601-07RE2)		Matrix: WG						
Batch: 23C1137								
Aluminum	140	25.0	50.0	ug/L	1	03/30/23 15:56	EPA 6020B	
Arsenic	0.974	0.500	1.00	ug/L	1	03/30/23 15:56	EPA 6020B	J
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 15:56	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	03/30/23 15:56	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	03/30/23 15:56	EPA 6020B	
Iron	21300	25.0	50.0	ug/L	1	03/30/23 15:56	EPA 6020B	
Lead	ND	0.110	0.200	ug/L	1	03/30/23 15:56	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 15:56	EPA 6020B	
Nickel	2.18	1.00	2.00	ug/L	1	03/30/23 15:56	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 15:56	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 15:56	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	03/30/23 15:56	EPA 6020B	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-24 (A3C0601-07RE2) Matrix: WG								
Zinc	9.56	2.00	4.00	ug/L	1	03/30/23 15:56	EPA 6020B	
GS-031523-24 (A3C0601-07RE3) Matrix: WG								
Batch: 23C1137								
Antimony	ND	5.00	10.0	ug/L	10	03/31/23 10:52	EPA 6020B	
Beryllium	ND	1.00	2.00	ug/L	10	03/31/23 10:52	EPA 6020B	
Silver	ND	1.00	2.00	ug/L	10	03/31/23 10:52	EPA 6020B	
GS-031523-25 (A3C0601-08) Matrix: WG								
Batch: 23C1137								
Barium	110	1.00	2.00	ug/L	1	03/30/23 03:41	EPA 6020B	
Lead	0.246	0.110	0.200	ug/L	1	03/30/23 03:41	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 03:41	EPA 6020B	
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 03:41	EPA 6020B	
GS-031523-25 (A3C0601-08RE1) Matrix: WG								
Batch: 23C1137								
Manganese	4640	5.00	10.0	ug/L	10	03/30/23 16:01	EPA 6020B	
GS-031523-25 (A3C0601-08RE2) Matrix: WG								
Batch: 23C1137								
Aluminum	143	25.0	50.0	ug/L	1	03/30/23 16:16	EPA 6020B	
Antimony	0.682	0.500	1.00	ug/L	1	03/30/23 16:16	EPA 6020B	J
Arsenic	1.01	0.500	1.00	ug/L	1	03/30/23 16:16	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 16:16	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	03/30/23 16:16	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	03/30/23 16:16	EPA 6020B	
Iron	21000	25.0	50.0	ug/L	1	03/30/23 16:16	EPA 6020B	
Nickel	2.20	1.00	2.00	ug/L	1	03/30/23 16:16	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 16:16	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 16:16	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	03/30/23 16:16	EPA 6020B	
Zinc	9.56	2.00	4.00	ug/L	1	03/30/23 16:16	EPA 6020B	
GS-031523-25 (A3C0601-08RE3) Matrix: WG								

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ANALYTICAL REPORT

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-25 (A3C0601-08RE3)		Matrix: WG						
Batch: 23C1137								
Beryllium	ND	1.00	2.00	ug/L	10	03/31/23 10:59	EPA 6020B	
GS-031523-26 (A3C0601-09)		Matrix: WG						
Batch: 23C1137								
Arsenic	ND	0.500	1.00	ug/L	1	03/30/23 03:46	EPA 6020B	
Barium	19.8	1.00	2.00	ug/L	1	03/30/23 03:46	EPA 6020B	
Chromium	ND	1.00	2.00	ug/L	1	03/30/23 03:46	EPA 6020B	
Copper	ND	1.00	2.00	ug/L	1	03/30/23 03:46	EPA 6020B	
Iron	604	25.0	50.0	ug/L	1	03/30/23 03:46	EPA 6020B	
Lead	0.139	0.110	0.200	ug/L	1	03/30/23 03:46	EPA 6020B	J
Manganese	248	0.500	1.00	ug/L	1	03/30/23 03:46	EPA 6020B	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/23 03:46	EPA 6020B	
Nickel	1.01	1.00	2.00	ug/L	1	03/30/23 03:46	EPA 6020B	J
Thallium	ND	0.100	0.200	ug/L	1	03/30/23 03:46	EPA 6020B	
Vanadium	ND	1.00	2.00	ug/L	1	03/30/23 03:46	EPA 6020B	
Zinc	ND	2.00	4.00	ug/L	1	03/30/23 03:46	EPA 6020B	
GS-031523-26 (A3C0601-09RE1)		Matrix: WG						
Batch: 23C1137								
Aluminum	262	25.0	50.0	ug/L	1	03/30/23 16:20	EPA 6020B	
Antimony	ND	0.500	1.00	ug/L	1	03/30/23 16:20	EPA 6020B	
Cadmium	ND	0.100	0.200	ug/L	1	03/30/23 16:20	EPA 6020B	
Selenium	ND	0.500	1.00	ug/L	1	03/30/23 16:20	EPA 6020B	
Silver	ND	0.100	0.200	ug/L	1	03/30/23 16:20	EPA 6020B	
GS-031523-26 (A3C0601-09RE2)		Matrix: WG						
Batch: 23C1137								
Beryllium	ND	0.100	0.200	ug/L	1	03/31/23 11:05	EPA 6020B	

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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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL SAMPLE RESULTS

Total Cyanide by Flow Analysis (Aqueous)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-18 (A3C0601-01RE1)				Matrix: WG		Batch: 23C0733		
Total Cyanide	0.952	0.0250	0.0250	mg/L	5	03/21/23 17:59	EPA 335.4	B-02, Q-42
GS-031523-19 (A3C0601-02RE1)				Matrix: WG		Batch: 23C0733		
Total Cyanide	1.32	0.0250	0.0250	mg/L	5	03/21/23 18:05	EPA 335.4	B-02
GS-031523-20 (A3C0601-03RE1)				Matrix: WG		Batch: 23C0733		
Total Cyanide	0.0703	0.00500	0.00500	mg/L	1	03/21/23 18:21	EPA 335.4	B-02
GS-031523-21 (A3C0601-04RE1)				Matrix: WG		Batch: 23C0919		
Total Cyanide	0.0189	0.00500	0.00500	mg/L	1	03/23/23 16:05	EPA 335.4	
GS-031523-22 (A3C0601-05RE1)				Matrix: WG		Batch: 23C0919		
Total Cyanide	0.0524	0.00500	0.00500	mg/L	1	03/23/23 16:07	EPA 335.4	
GS-031523-23 (A3C0601-06RE1)				Matrix: WG		Batch: 23C0919		
Total Cyanide	0.00900	0.00500	0.00500	mg/L	1	03/23/23 16:09	EPA 335.4	
GS-031523-24 (A3C0601-07)				Matrix: WG		Batch: 23C0733		
Total Cyanide	0.0420	0.00500	0.00500	mg/L	1	03/21/23 14:59	EPA 335.4	B-02
GS-031523-25 (A3C0601-08RE1)				Matrix: WG		Batch: 23C0919		
Total Cyanide	0.0341	0.00500	0.00500	mg/L	1	03/23/23 16:17	EPA 335.4	PRES
GS-031523-26 (A3C0601-09)				Matrix: WG		Batch: 23C0733		
Total Cyanide	0.102	0.00500	0.00500	mg/L	1	03/21/23 15:03	EPA 335.4	B-02

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

ANALYTICAL SAMPLE RESULTS

Available Cyanide by FIA, Ligand Exchange and Amperometric Detection

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-18 (A3C0601-01)				Matrix: WG		Batch: 23C0905		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	03/23/23 14:35	D6888-09	
GS-031523-19 (A3C0601-02)				Matrix: WG		Batch: 23C0905		
Available Cyanide	0.00414	0.00100	0.00200	mg/L	1	03/23/23 14:36	D6888-09	
GS-031523-20 (A3C0601-03)				Matrix: WG		Batch: 23C0905		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	03/23/23 14:38	D6888-09	
GS-031523-21 (A3C0601-04)				Matrix: WG		Batch: 23C0905		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	03/23/23 14:39	D6888-09	
GS-031523-22 (A3C0601-05)				Matrix: WG		Batch: 23C0905		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	03/23/23 14:42	D6888-09	
GS-031523-23 (A3C0601-06)				Matrix: WG		Batch: 23C0905		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	03/23/23 14:48	D6888-09	
GS-031523-24 (A3C0601-07)				Matrix: WG		Batch: 23C0905		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	03/23/23 14:56	D6888-09	
GS-031523-25 (A3C0601-08)				Matrix: WG		Batch: 23C0905		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	03/23/23 14:57	D6888-09	
GS-031523-26 (A3C0601-09)				Matrix: WG		Batch: 23C0905		
Available Cyanide	ND	0.00100	0.00200	mg/L	1	03/23/23 14:59	D6888-09	

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ANALYTICAL SAMPLE RESULTS

Free Cyanide by Microdiffusion/Colorimetric Spectrophotometry

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
GS-031523-18 (A3C0601-01)				Matrix: WG		Batch: 23C0726		PRES
Free Cyanide	0.00493	0.00250	0.00500	mg/L	1	03/20/23 15:19	D4282-02	J
GS-031523-19 (A3C0601-02)				Matrix: WG		Batch: 23C0726		PRES
Free Cyanide	ND	0.00250	0.00500	mg/L	1	03/20/23 15:24	D4282-02	
GS-031523-20 (A3C0601-03)				Matrix: WG		Batch: 23C0726		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	03/20/23 15:24	D4282-02	
GS-031523-21 (A3C0601-04)				Matrix: WG		Batch: 23C0726		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	03/20/23 15:25	D4282-02	
GS-031523-22 (A3C0601-05)				Matrix: WG		Batch: 23C0726		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	03/20/23 15:34	D4282-02	
GS-031523-23 (A3C0601-06)				Matrix: WG		Batch: 23C0726		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	03/20/23 15:34	D4282-02	
GS-031523-24 (A3C0601-07)				Matrix: WG		Batch: 23C0726		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	03/20/23 15:40	D4282-02	
GS-031523-25 (A3C0601-08)				Matrix: WG		Batch: 23C0726		PRES
Free Cyanide	ND	0.00250	0.00500	mg/L	1	03/20/23 15:40	D4282-02	
GS-031523-26 (A3C0601-09)				Matrix: WG		Batch: 23C0726		
Free Cyanide	ND	0.00250	0.00500	mg/L	1	03/20/23 15:40	D4282-02	

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Page 42 of 93



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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 23C0611 - EPA 5030C						Water						
Blank (23C0611-BLK1)			Prepared: 03/16/23 09:08		Analyzed: 03/16/23 12:24							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	B-02, J
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	0.180	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	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	1.00	1.00	ug/L	1	---	---	---	---	---	---	
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	0.400	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



ANALYTICAL REPORT

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Project Number: 000029-02.84 T-01.001E

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A3C0601 - 05 19 23 0524

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 23C0611 - EPA 5030C						Water						
Blank (23C0611-BLK1)						Prepared: 03/16/23 09:08 Analyzed: 03/16/23 12:24						
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	5.00	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	2.00	2.00	ug/L	1	---	---	---	---	---	---	Q-30
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	2.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	2.00	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	0.400	0.400	ug/L	1	---	---	---	---	---	---	Q-30
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: 114 % Limits: 80-120 % Dilution: 1x												

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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 23C0611 - EPA 5030C						Water						
Blank (23C0611-BLK1)			Prepared: 03/16/23 09:08		Analyzed: 03/16/23 12:24							
Surr: Toluene-d8 (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		106 %		80-120 %		"						
LCS (23C0611-BS1)			Prepared: 03/16/23 09:08		Analyzed: 03/16/23 11:30							
EPA 8260D												
Acetone	32.2	10.0	20.0	ug/L	1	40.0	---	80	80-120%	---	---	B-02
Acrylonitrile	18.8	1.00	2.00	ug/L	1	20.0	---	94	80-120%	---	---	
Benzene	18.9	0.100	0.200	ug/L	1	20.0	---	94	80-120%	---	---	
Bromobenzene	17.0	0.250	0.500	ug/L	1	20.0	---	85	80-120%	---	---	
Bromochloromethane	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	ICV-01, B-02
Bromodichloromethane	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Bromoform	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Bromomethane	16.1	5.00	5.00	ug/L	1	20.0	---	81	80-120%	---	---	
2-Butanone (MEK)	37.0	5.00	10.0	ug/L	1	40.0	---	93	80-120%	---	---	Q-55
n-Butylbenzene	16.0	0.500	1.00	ug/L	1	20.0	---	80	80-120%	---	---	
sec-Butylbenzene	17.5	0.500	1.00	ug/L	1	20.0	---	87	80-120%	---	---	
tert-Butylbenzene	16.1	0.500	1.00	ug/L	1	20.0	---	80	80-120%	---	---	
Carbon disulfide	17.6	5.00	10.0	ug/L	1	20.0	---	88	80-120%	---	---	Q-30
Carbon tetrachloride	19.7	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Chlorobenzene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Chloroethane	19.2	5.00	5.00	ug/L	1	20.0	---	96	80-120%	---	---	
Chloroform	19.7	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	Q-30
Chloromethane	14.7	5.00	5.00	ug/L	1	20.0	---	73	80-120%	---	---	
2-Chlorotoluene	17.0	0.500	1.00	ug/L	1	20.0	---	85	80-120%	---	---	
4-Chlorotoluene	17.9	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
Dibromochloromethane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	Q-30
1,2-Dibromo-3-chloropropane	18.4	2.50	5.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Dibromomethane	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dichlorobenzene	18.2	0.250	0.500	ug/L	1	20.0	---	91	80-120%	---	---	Q-30
1,3-Dichlorobenzene	18.4	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
1,4-Dichlorobenzene	18.0	0.250	0.500	ug/L	1	20.0	---	90	80-120%	---	---	
Dichlorodifluoromethane	6.34	1.00	1.00	ug/L	1	20.0	---	32	80-120%	---	---	
1,1-Dichloroethane	18.6	0.200	0.400	ug/L	1	20.0	---	93	80-120%	---	---	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0611 - EPA 5030C						Water						
LCS (23C0611-BS1)			Prepared: 03/16/23 09:08		Analyzed: 03/16/23 11:30							
1,2-Dichloroethane (EDC)	19.1	0.200	0.400	ug/L	1	20.0	---	96	80-120%	---	---	
1,1-Dichloroethene	15.6	0.400	0.400	ug/L	1	20.0	---	78	80-120%	---	---	Q-55
cis-1,2-Dichloroethene	17.4	0.200	0.400	ug/L	1	20.0	---	87	80-120%	---	---	
trans-1,2-Dichloroethene	16.4	0.200	0.400	ug/L	1	20.0	---	82	80-120%	---	---	
1,2-Dichloropropane	19.1	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
1,3-Dichloropropane	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
2,2-Dichloropropane	23.8	0.500	1.00	ug/L	1	20.0	---	119	80-120%	---	---	
1,1-Dichloropropene	17.1	0.500	1.00	ug/L	1	20.0	---	86	80-120%	---	---	
cis-1,3-Dichloropropene	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
trans-1,3-Dichloropropene	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Ethylbenzene	18.1	0.250	0.500	ug/L	1	20.0	---	90	80-120%	---	---	
Hexachlorobutadiene	15.9	5.00	5.00	ug/L	1	20.0	---	79	80-120%	---	---	Q-55
2-Hexanone	32.2	5.00	10.0	ug/L	1	40.0	---	81	80-120%	---	---	
Isopropylbenzene	17.4	0.500	1.00	ug/L	1	20.0	---	87	80-120%	---	---	
4-Isopropyltoluene	16.1	0.500	1.00	ug/L	1	20.0	---	80	80-120%	---	---	
Methylene chloride	19.4	5.00	10.0	ug/L	1	20.0	---	97	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	34.2	5.00	10.0	ug/L	1	40.0	---	86	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	17.5	0.500	1.00	ug/L	1	20.0	---	88	80-120%	---	---	
Naphthalene	11.8	2.00	2.00	ug/L	1	20.0	---	59	80-120%	---	---	Q-30
n-Propylbenzene	17.2	0.250	0.500	ug/L	1	20.0	---	86	80-120%	---	---	
Styrene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,1,2-Tetrachloroethane	23.7	0.200	0.400	ug/L	1	20.0	---	118	80-120%	---	---	
1,1,2,2-Tetrachloroethane	19.7	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Tetrachloroethene (PCE)	16.8	0.200	0.400	ug/L	1	20.0	---	84	80-120%	---	---	
Toluene	17.0	0.500	1.00	ug/L	1	20.0	---	85	80-120%	---	---	
1,2,3-Trichlorobenzene	15.2	2.00	2.00	ug/L	1	20.0	---	76	80-120%	---	---	Q-55
1,2,4-Trichlorobenzene	14.1	2.00	2.00	ug/L	1	20.0	---	71	80-120%	---	---	Q-55
1,1,1-Trichloroethane	19.1	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,2-Trichloroethane	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Trichloroethene (TCE)	17.0	0.200	0.400	ug/L	1	20.0	---	85	80-120%	---	---	
Trichlorofluoromethane	17.9	1.00	2.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,2,3-Trichloropropane	18.5	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,2,4-Trimethylbenzene	18.1	0.500	1.00	ug/L	1	20.0	---	91	80-120%	---	---	
1,3,5-Trimethylbenzene	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	

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Darwin Thomas, Business Development Director

Page 46 of 93



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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

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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 23C0611 - EPA 5030C						Water						
LCS (23C0611-BS1)				Prepared: 03/16/23 09:08		Analyzed: 03/16/23 11:30						
Vinyl chloride	13.1	0.400	0.400	ug/L	1	20.0	---	66	80-120%	---	---	Q-30
m,p-Xylene	37.3	0.500	1.00	ug/L	1	40.0	---	93	80-120%	---	---	
o-Xylene	17.0	0.250	0.500	ug/L	1	20.0	---	85	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		90 %		80-120 %		"						
Duplicate (23C0611-DUP1)						Prepared: 03/16/23 09:08		Analyzed: 03/16/23 15:07				
QC Source Sample: Non-SDG (A3C0549-04)												
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	5.00	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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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0611 - EPA 5030C						Water						
Duplicate (23C0611-DUP1)			Prepared: 03/16/23 09:08		Analyzed: 03/16/23 15:07							
QC Source Sample: Non-SDG (A3C0549-04)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	Q-30
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	1.00	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%	Q-30
1,1-Dichloroethene	ND	0.400	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%	Q-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%	Q-30
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	Q-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%	Q-30
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.00	2.00	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%	Q-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%	Q-30
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	2.00	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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Page 48 of 93



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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	Limits	RPD	RPD Limit	Notes
Batch 23C0611 - EPA 5030C						Water						
Duplicate (23C0611-DUP1)			Prepared: 03/16/23 09:08		Analyzed: 03/16/23 15:07							
QC Source Sample: Non-SDG (A3C0549-04)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	Q-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	0.400	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 116 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
Matrix Spike (23C0611-MS1)			Prepared: 03/16/23 09:08		Analyzed: 03/16/23 16:01							
QC Source Sample: Non-SDG (A3C0478-02)												
EPA 8260D												
Acetone	41.3	20.0	20.0	ug/L	1	40.0	ND	103	39-160%	---	---	B-02
Acrylonitrile	20.4	1.00	2.00	ug/L	1	20.0	ND	102	63-135%	---	---	
Benzene	20.2	0.100	0.200	ug/L	1	20.0	ND	101	79-120%	---	---	
Bromobenzene	17.2	0.250	0.500	ug/L	1	20.0	ND	86	80-120%	---	---	
Bromochloromethane	20.2	0.500	1.00	ug/L	1	20.0	ND	101	78-123%	---	---	
Bromodichloromethane	23.2	0.500	1.00	ug/L	1	20.0	ND	116	79-125%	---	---	
Bromoform	20.5	0.500	1.00	ug/L	1	20.0	ND	102	66-130%	---	---	
Bromomethane	17.5	5.00	5.00	ug/L	1	20.0	ND	87	53-141%	---	---	
2-Butanone (MEK)	40.3	5.00	10.0	ug/L	1	40.0	ND	101	56-143%	---	---	B-02, ICV-01
n-Butylbenzene	16.6	0.500	1.00	ug/L	1	20.0	ND	83	75-128%	---	---	
sec-Butylbenzene	18.1	0.500	1.00	ug/L	1	20.0	ND	90	77-126%	---	---	
tert-Butylbenzene	16.8	0.500	1.00	ug/L	1	20.0	ND	84	78-124%	---	---	
Carbon disulfide	20.0	5.00	10.0	ug/L	1	20.0	ND	100	64-133%	---	---	
Carbon tetrachloride	21.5	0.500	1.00	ug/L	1	20.0	ND	107	72-136%	---	---	
Chlorobenzene	19.4	0.250	0.500	ug/L	1	20.0	ND	97	80-120%	---	---	
Chloroethane	19.8	5.00	5.00	ug/L	1	20.0	ND	99	60-138%	---	---	
Chloroform	21.4	0.500	1.00	ug/L	1	20.0	ND	107	79-124%	---	---	Q-54h
Chloromethane	15.9	5.00	5.00	ug/L	1	20.0	ND	79	50-139%	---	---	

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C0611 - EPA 5030C						Water						
Matrix Spike (23C0611-MS1)			Prepared: 03/16/23 09:08		Analyzed: 03/16/23 16:01							
QC Source Sample: Non-SDG (A3C0478-02)												
2-Chlorotoluene	17.2	0.500	1.00	ug/L	1	20.0	ND	86	79-122%	---	---	
4-Chlorotoluene	18.4	0.500	1.00	ug/L	1	20.0	ND	92	78-122%	---	---	
Dibromochloromethane	20.1	0.500	1.00	ug/L	1	20.0	ND	100	74-126%	---	---	
1,2-Dibromo-3-chloropropane	19.7	2.50	5.00	ug/L	1	20.0	ND	99	62-128%	---	---	
1,2-Dibromoethane (EDB)	20.4	0.250	0.500	ug/L	1	20.0	ND	102	77-121%	---	---	
Dibromomethane	21.6	0.500	1.00	ug/L	1	20.0	ND	108	79-123%	---	---	
1,2-Dichlorobenzene	18.7	0.250	0.500	ug/L	1	20.0	ND	94	80-120%	---	---	
1,3-Dichlorobenzene	18.7	0.250	0.500	ug/L	1	20.0	ND	93	80-120%	---	---	
1,4-Dichlorobenzene	18.6	0.250	0.500	ug/L	1	20.0	ND	93	79-120%	---	---	
Dichlorodifluoromethane	7.04	1.00	1.00	ug/L	1	20.0	ND	35	32-152%	---	---	Q-30
1,1-Dichloroethane	20.3	0.200	0.400	ug/L	1	20.0	ND	102	77-125%	---	---	
1,2-Dichloroethane (EDC)	20.3	0.200	0.400	ug/L	1	20.0	ND	102	73-128%	---	---	
1,1-Dichloroethene	17.2	0.400	0.400	ug/L	1	20.0	ND	86	71-131%	---	---	Q-54e
cis-1,2-Dichloroethene	18.6	0.200	0.400	ug/L	1	20.0	ND	93	78-123%	---	---	
trans-1,2-Dichloroethene	18.2	0.200	0.400	ug/L	1	20.0	ND	91	75-124%	---	---	
1,2-Dichloropropane	20.4	0.250	0.500	ug/L	1	20.0	ND	102	78-122%	---	---	
1,3-Dichloropropane	19.0	0.500	1.00	ug/L	1	20.0	ND	95	80-120%	---	---	
2,2-Dichloropropane	22.8	0.500	1.00	ug/L	1	20.0	ND	114	60-139%	---	---	
1,1-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0	ND	93	79-125%	---	---	
cis-1,3-Dichloropropene	16.7	0.500	1.00	ug/L	1	20.0	ND	83	75-124%	---	---	
trans-1,3-Dichloropropene	21.0	0.500	1.00	ug/L	1	20.0	ND	105	73-127%	---	---	
Ethylbenzene	19.1	0.250	0.500	ug/L	1	20.0	ND	95	79-121%	---	---	
Hexachlorobutadiene	16.0	5.00	5.00	ug/L	1	20.0	ND	80	66-134%	---	---	Q-54e
2-Hexanone	33.6	5.00	10.0	ug/L	1	40.0	ND	84	57-139%	---	---	
Isopropylbenzene	18.2	0.500	1.00	ug/L	1	20.0	ND	91	72-131%	---	---	
4-Isopropyltoluene	16.6	0.500	1.00	ug/L	1	20.0	ND	83	77-127%	---	---	
Methylene chloride	21.2	5.00	10.0	ug/L	1	20.0	ND	106	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	35.9	5.00	10.0	ug/L	1	40.0	ND	90	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	18.2	0.500	1.00	ug/L	1	20.0	ND	91	71-124%	---	---	
Naphthalene	12.2	2.00	2.00	ug/L	1	20.0	ND	61	61-128%	---	---	Q-30
n-Propylbenzene	18.0	0.250	0.500	ug/L	1	20.0	ND	90	76-126%	---	---	
Styrene	19.8	0.500	1.00	ug/L	1	20.0	ND	99	78-123%	---	---	
1,1,1,2-Tetrachloroethane	24.6	0.200	0.400	ug/L	1	20.0	ND	123	78-124%	---	---	

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Page 50 of 93



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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0611 - EPA 5030C												
Water												
Matrix Spike (23C0611-MS1)			Prepared: 03/16/23 09:08		Analyzed: 03/16/23 16:01							
QC Source Sample: Non-SDG (A3C0478-02)												
1,1,2,2-Tetrachloroethane	20.2	0.250	0.500	ug/L	1	20.0	ND	101	71-121%	---	---	
Tetrachloroethene (PCE)	17.6	0.200	0.400	ug/L	1	20.0	ND	88	74-129%	---	---	
Toluene	17.8	0.500	1.00	ug/L	1	20.0	ND	89	80-121%	---	---	
1,2,3-Trichlorobenzene	15.8	2.00	2.00	ug/L	1	20.0	ND	79	69-129%	---	---	Q-54f
1,2,4-Trichlorobenzene	14.7	2.00	2.00	ug/L	1	20.0	ND	74	69-130%	---	---	Q-54i
1,1,1-Trichloroethane	21.1	0.200	0.400	ug/L	1	20.0	ND	105	74-131%	---	---	
1,1,2-Trichloroethane	20.2	0.250	0.500	ug/L	1	20.0	ND	101	80-120%	---	---	
Trichloroethene (TCE)	18.2	0.200	0.400	ug/L	1	20.0	ND	91	79-123%	---	---	
Trichlorofluoromethane	19.9	1.00	2.00	ug/L	1	20.0	ND	100	65-141%	---	---	
1,2,3-Trichloropropane	18.7	0.500	1.00	ug/L	1	20.0	ND	93	73-122%	---	---	
1,2,4-Trimethylbenzene	18.6	0.500	1.00	ug/L	1	20.0	ND	93	76-124%	---	---	
1,3,5-Trimethylbenzene	19.4	0.500	1.00	ug/L	1	20.0	ND	97	75-124%	---	---	
Vinyl chloride	14.5	0.400	0.400	ug/L	1	20.0	ND	72	58-137%	---	---	Q-30, Q-54d
m,p-Xylene	39.2	0.500	1.00	ug/L	1	40.0	ND	98	80-121%	---	---	
o-Xylene	17.6	0.250	0.500	ug/L	1	20.0	ND	88	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		87 %		80-120 %		"						

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Page 51 of 93

**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 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****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 23C0904 - EPA 5030C						Water						
Blank (23C0904-BLK1)			Prepared: 03/23/23 12:31		Analyzed: 03/24/23 01:06							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0904 - EPA 5030C						Water						
Blank (23C0904-BLK1)						Prepared: 03/23/23 12:31 Analyzed: 03/24/23 01:06						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	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	2.00	2.00	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	0.200	0.400	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: 99 % Limits: 80-120 % Dilution: 1x												

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Darwin Thomas, Business Development Director



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:

A3C0601 - 05 19 23 0524

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 23C0904 - EPA 5030C						Water						
Blank (23C0904-BLK1)			Prepared: 03/23/23 12:31		Analyzed: 03/24/23 01:06							
Surr: Toluene-d8 (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						
LCS (23C0904-BS1)			Prepared: 03/23/23 12:31		Analyzed: 03/24/23 00:21							
EPA 8260D												
Acetone	40.7	10.0	20.0	ug/L	1	40.0	---	102	80-120%	---	---	
Acrylonitrile	20.9	1.00	2.00	ug/L	1	20.0	---	105	80-120%	---	---	
Benzene	19.4	0.100	0.200	ug/L	1	20.0	---	97	80-120%	---	---	
Bromobenzene	17.2	0.250	0.500	ug/L	1	20.0	---	86	80-120%	---	---	
Bromochloromethane	23.6	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
Bromodichloromethane	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Bromoform	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Bromomethane	14.7	5.00	5.00	ug/L	1	20.0	---	74	80-120%	---	---	Q-55
2-Butanone (MEK)	44.5	5.00	10.0	ug/L	1	40.0	---	111	80-120%	---	---	
n-Butylbenzene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
sec-Butylbenzene	22.1	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
tert-Butylbenzene	21.3	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Carbon disulfide	20.8	5.00	10.0	ug/L	1	20.0	---	104	80-120%	---	---	
Carbon tetrachloride	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Chlorobenzene	18.5	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Chloroethane	24.6	5.00	5.00	ug/L	1	20.0	---	123	80-120%	---	---	Q-56
Chloroform	18.9	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
Chloromethane	20.0	2.50	5.00	ug/L	1	20.0	---	100	80-120%	---	---	
2-Chlorotoluene	18.9	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
4-Chlorotoluene	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Dibromochloromethane	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2-Dibromo-3-chloropropane	17.5	2.50	5.00	ug/L	1	20.0	---	88	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.0	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Dibromomethane	18.9	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2-Dichlorobenzene	18.5	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
1,3-Dichlorobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
1,4-Dichlorobenzene	17.5	0.250	0.500	ug/L	1	20.0	---	87	80-120%	---	---	
Dichlorodifluoromethane	24.6	0.500	1.00	ug/L	1	20.0	---	123	80-120%	---	---	Q-56
1,1-Dichloroethane	20.7	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	

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A3C0601 - 05 19 23 0524

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 23C0904 - EPA 5030C						Water						
LCS (23C0904-BS1)			Prepared: 03/23/23 12:31		Analyzed: 03/24/23 00:21							
1,2-Dichloroethane (EDC)	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
1,1-Dichloroethene	21.5	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
cis-1,2-Dichloroethene	20.1	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
trans-1,2-Dichloroethene	20.3	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dichloropropane	19.7	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
1,3-Dichloropropane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
2,2-Dichloropropane	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,1-Dichloropropene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
cis-1,3-Dichloropropene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
trans-1,3-Dichloropropene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Ethylbenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Hexachlorobutadiene	18.4	2.50	5.00	ug/L	1	20.0	---	92	80-120%	---	---	
2-Hexanone	43.0	5.00	10.0	ug/L	1	40.0	---	107	80-120%	---	---	
Isopropylbenzene	21.1	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
4-Isopropyltoluene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Methylene chloride	19.0	5.00	10.0	ug/L	1	20.0	---	95	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	49.0	5.00	10.0	ug/L	1	40.0	---	122	80-120%	---	---	Q-56
Methyl tert-butyl ether (MTBE)	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Naphthalene	15.2	2.00	2.00	ug/L	1	20.0	---	76	80-120%	---	---	Q-55
n-Propylbenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Styrene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,1,1,2-Tetrachloroethane	18.1	0.200	0.400	ug/L	1	20.0	---	90	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Tetrachloroethene (PCE)	19.4	0.200	0.400	ug/L	1	20.0	---	97	80-120%	---	---	
Toluene	18.7	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2,3-Trichlorobenzene	18.8	1.00	2.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,4-Trichlorobenzene	17.5	1.00	2.00	ug/L	1	20.0	---	88	80-120%	---	---	
1,1,1-Trichloroethane	20.1	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,1,2-Trichloroethane	18.7	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Trichloroethene (TCE)	17.4	0.200	0.400	ug/L	1	20.0	---	87	80-120%	---	---	
Trichlorofluoromethane	22.9	1.00	2.00	ug/L	1	20.0	---	115	80-120%	---	---	
1,2,3-Trichloropropane	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2,4-Trimethylbenzene	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,3,5-Trimethylbenzene	21.2	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0904 - EPA 5030C						Water						
LCS (23C0904-BS1)				Prepared: 03/23/23 12:31		Analyzed: 03/24/23 00:21						
Vinyl chloride	22.1	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
m,p-Xylene	43.8	0.500	1.00	ug/L	1	40.0	---	110	80-120%	---	---	
o-Xylene	20.7	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 95 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						
Duplicate (23C0904-DUP1)						Prepared: 03/23/23 12:31		Analyzed: 03/24/23 05:10				
QC Source Sample: Non-SDG (A3C0644-01)												
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	---	0.100	---	---	***	30%	Q-05
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



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Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

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 23C0904 - EPA 5030C						Water						
Duplicate (23C0904-DUP1)			Prepared: 03/23/23 12:31		Analyzed: 03/24/23 05:10							
QC Source Sample: Non-SDG (A3C0644-01)												
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	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0904 - EPA 5030C						Water						
Duplicate (23C0904-DUP1)			Prepared: 03/23/23 12:31		Analyzed: 03/24/23 05:10							
QC Source Sample: Non-SDG (A3C0644-01)												
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	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						
Matrix Spike (23C0904-MS1)						Prepared: 03/23/23 12:31 Analyzed: 03/24/23 08:08						
QC Source Sample: Non-SDG (A3C0644-15)												
EPA 8260D												
Acetone	51.2	10.0	20.0	ug/L	1	40.0	ND	128	39-160%	---	---	
Acrylonitrile	22.2	1.00	2.00	ug/L	1	20.0	ND	111	63-135%	---	---	
Benzene	22.3	0.100	0.200	ug/L	1	20.0	0.490	109	79-120%	---	---	
Bromobenzene	18.6	0.250	0.500	ug/L	1	20.0	ND	93	80-120%	---	---	
Bromochloromethane	26.4	0.500	1.00	ug/L	1	20.0	ND	132	78-123%	---	---	Q-01
Bromodichloromethane	22.9	0.500	1.00	ug/L	1	20.0	ND	115	79-125%	---	---	
Bromoform	21.8	0.500	1.00	ug/L	1	20.0	ND	109	66-130%	---	---	
Bromomethane	21.4	5.00	5.00	ug/L	1	20.0	ND	107	53-141%	---	---	Q-54g
2-Butanone (MEK)	46.7	5.00	10.0	ug/L	1	40.0	ND	117	56-143%	---	---	
n-Butylbenzene	23.1	0.500	1.00	ug/L	1	20.0	ND	116	75-128%	---	---	
sec-Butylbenzene	24.5	0.500	1.00	ug/L	1	20.0	ND	122	77-126%	---	---	
tert-Butylbenzene	23.4	0.500	1.00	ug/L	1	20.0	ND	117	78-124%	---	---	
Carbon disulfide	25.8	5.00	10.0	ug/L	1	20.0	ND	129	64-133%	---	---	
Carbon tetrachloride	24.8	0.500	1.00	ug/L	1	20.0	ND	124	72-136%	---	---	
Chlorobenzene	20.9	0.250	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
Chloroethane	28.5	5.00	5.00	ug/L	1	20.0	ND	142	60-138%	---	---	Q-54b
Chloroform	21.4	0.500	1.00	ug/L	1	20.0	ND	107	79-124%	---	---	
Chloromethane	24.3	2.50	5.00	ug/L	1	20.0	ND	121	50-139%	---	---	

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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 23C0904 - EPA 5030C						Water						
Matrix Spike (23C0904-MS1)			Prepared: 03/23/23 12:31		Analyzed: 03/24/23 08:08							
QC Source Sample: Non-SDG (A3C0644-15)												
2-Chlorotoluene	20.5	0.500	1.00	ug/L	1	20.0	ND	103	79-122%	---	---	
4-Chlorotoluene	22.1	0.500	1.00	ug/L	1	20.0	ND	111	78-122%	---	---	
Dibromochloromethane	21.5	0.500	1.00	ug/L	1	20.0	ND	108	74-126%	---	---	
1,2-Dibromo-3-chloropropane	18.9	2.50	5.00	ug/L	1	20.0	ND	94	62-128%	---	---	
1,2-Dibromoethane (EDB)	20.8	0.250	0.500	ug/L	1	20.0	ND	104	77-121%	---	---	
Dibromomethane	21.2	0.500	1.00	ug/L	1	20.0	ND	106	79-123%	---	---	
1,2-Dichlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	ND	100	80-120%	---	---	
1,3-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	ND	103	80-120%	---	---	
1,4-Dichlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	ND	96	79-120%	---	---	
Dichlorodifluoromethane	27.6	0.500	1.00	ug/L	1	20.0	ND	138	32-152%	---	---	Q-54b
1,1-Dichloroethane	47.7	0.200	0.400	ug/L	1	20.0	22.3	127	77-125%	---	---	Q-01
1,2-Dichloroethane (EDC)	23.6	0.200	0.400	ug/L	1	20.0	ND	118	73-128%	---	---	
1,1-Dichloroethene	35.1	0.200	0.400	ug/L	1	20.0	8.08	135	71-131%	---	---	Q-01
cis-1,2-Dichloroethene	183	0.200	0.400	ug/L	1	20.0	145	190	78-123%	---	---	Q-03
trans-1,2-Dichloroethene	25.7	0.200	0.400	ug/L	1	20.0	2.90	114	75-124%	---	---	
1,2-Dichloropropane	21.4	0.250	0.500	ug/L	1	20.0	ND	107	78-122%	---	---	
1,3-Dichloropropane	21.6	0.500	1.00	ug/L	1	20.0	ND	108	80-120%	---	---	
2,2-Dichloropropane	18.4	0.500	1.00	ug/L	1	20.0	ND	92	60-139%	---	---	
1,1-Dichloropropene	23.3	0.500	1.00	ug/L	1	20.0	ND	116	79-125%	---	---	
cis-1,3-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0	ND	93	75-124%	---	---	
trans-1,3-Dichloropropene	23.6	0.500	1.00	ug/L	1	20.0	ND	118	73-127%	---	---	
Ethylbenzene	22.6	0.250	0.500	ug/L	1	20.0	ND	113	79-121%	---	---	
Hexachlorobutadiene	20.4	2.50	5.00	ug/L	1	20.0	ND	102	66-134%	---	---	
2-Hexanone	45.6	5.00	10.0	ug/L	1	40.0	ND	114	57-139%	---	---	
Isopropylbenzene	23.1	0.500	1.00	ug/L	1	20.0	ND	116	72-131%	---	---	
4-Isopropyltoluene	23.6	0.500	1.00	ug/L	1	20.0	ND	118	77-127%	---	---	
Methylene chloride	20.5	5.00	10.0	ug/L	1	20.0	ND	103	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	51.4	5.00	10.0	ug/L	1	40.0	ND	128	67-130%	---	---	Q-54a
Methyl tert-butyl ether (MTBE)	21.0	0.500	1.00	ug/L	1	20.0	ND	105	71-124%	---	---	
Naphthalene	15.7	2.00	2.00	ug/L	1	20.0	ND	79	61-128%	---	---	Q-54f
n-Propylbenzene	22.5	0.250	0.500	ug/L	1	20.0	ND	112	76-126%	---	---	
Styrene	23.2	0.500	1.00	ug/L	1	20.0	ND	116	78-123%	---	---	
1,1,1,2-Tetrachloroethane	20.5	0.200	0.400	ug/L	1	20.0	ND	103	78-124%	---	---	

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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 23C0904 - EPA 5030C						Water						
Matrix Spike (23C0904-MS1)			Prepared: 03/23/23 12:31		Analyzed: 03/24/23 08:08							
QC Source Sample: Non-SDG (A3C0644-15)												
1,1,2,2-Tetrachloroethane	22.8	0.250	0.500	ug/L	1	20.0	ND	114	71-121%	---	---	
Tetrachloroethene (PCE)	22.5	0.200	0.400	ug/L	1	20.0	0.680	109	74-129%	---	---	
Toluene	20.9	0.500	1.00	ug/L	1	20.0	ND	104	80-121%	---	---	
1,2,3-Trichlorobenzene	20.4	1.00	2.00	ug/L	1	20.0	ND	102	69-129%	---	---	
1,2,4-Trichlorobenzene	18.4	1.00	2.00	ug/L	1	20.0	ND	92	69-130%	---	---	
1,1,1-Trichloroethane	23.1	0.200	0.400	ug/L	1	20.0	ND	116	74-131%	---	---	
1,1,2-Trichloroethane	20.6	0.250	0.500	ug/L	1	20.0	ND	103	80-120%	---	---	
Trichloroethene (TCE)	20.7	0.200	0.400	ug/L	1	20.0	1.19	98	79-123%	---	---	
Trichlorofluoromethane	26.2	1.00	2.00	ug/L	1	20.0	ND	131	65-141%	---	---	
1,2,3-Trichloropropane	21.2	0.500	1.00	ug/L	1	20.0	ND	106	73-122%	---	---	
1,2,4-Trimethylbenzene	23.7	0.500	1.00	ug/L	1	20.0	ND	118	76-124%	---	---	
1,3,5-Trimethylbenzene	23.3	0.500	1.00	ug/L	1	20.0	ND	116	75-124%	---	---	
Vinyl chloride	420	0.200	0.400	ug/L	1	20.0	364	279	58-137%	---	---	E, Q-03
m,p-Xylene	48.6	0.500	1.00	ug/L	1	40.0	ND	122	80-121%	---	---	Q-01
o-Xylene	22.3	0.250	0.500	ug/L	1	20.0	ND	112	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 95 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		80-120 %		"						

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Darwin Thomas, Business Development Director

Page 60 of 93

**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 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****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 23C1003 - EPA 5030C						Water						
Blank (23C1003-BLK1)			Prepared: 03/25/23 10:44		Analyzed: 03/25/23 15:55							
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



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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C1003 - EPA 5030C						Water						
Blank (23C1003-BLK1)						Prepared: 03/25/23 10:44 Analyzed: 03/25/23 15:55						
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	1.00	2.00	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	0.200	0.400	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: 100 % Limits: 80-120 % Dilution: 1x												

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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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C1003 - EPA 5030C						Water						
Blank (23C1003-BLK1)			Prepared: 03/25/23 10:44		Analyzed: 03/25/23 15:55							
Surr: Toluene-d8 (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		105 %		80-120 %		"						
LCS (23C1003-BS1)			Prepared: 03/25/23 10:44		Analyzed: 03/25/23 15:01							
EPA 8260D												
Acetone	39.3	10.0	20.0	ug/L	1	40.0	---	98	80-120%	---	---	ICV-01
Acrylonitrile	20.5	1.00	2.00	ug/L	1	20.0	---	102	80-120%	---	---	
Benzene	20.4	0.100	0.200	ug/L	1	20.0	---	102	80-120%	---	---	
Bromobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Bromochloromethane	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Bromodichloromethane	22.8	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Bromoform	16.4	0.500	1.00	ug/L	1	20.0	---	82	80-120%	---	---	
Bromomethane	22.9	5.00	5.00	ug/L	1	20.0	---	115	80-120%	---	---	
2-Butanone (MEK)	44.2	5.00	10.0	ug/L	1	40.0	---	111	80-120%	---	---	
n-Butylbenzene	24.0	0.500	1.00	ug/L	1	20.0	---	120	80-120%	---	---	
sec-Butylbenzene	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
tert-Butylbenzene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Carbon disulfide	18.8	5.00	10.0	ug/L	1	20.0	---	94	80-120%	---	---	
Carbon tetrachloride	20.5	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Chlorobenzene	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Chloroethane	16.3	5.00	5.00	ug/L	1	20.0	---	81	80-120%	---	---	
Chloroform	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chloromethane	20.4	2.50	5.00	ug/L	1	20.0	---	102	80-120%	---	---	
2-Chlorotoluene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
4-Chlorotoluene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Dibromochloromethane	18.0	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.9	2.50	5.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2-Dibromoethane (EDB)	22.0	0.250	0.500	ug/L	1	20.0	---	110	80-120%	---	---	
Dibromomethane	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
1,2-Dichlorobenzene	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
1,3-Dichlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,4-Dichlorobenzene	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Dichlorodifluoromethane	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,1-Dichloroethane	20.5	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	

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Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****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 23C1003 - EPA 5030C						Water						
LCS (23C1003-BS1)						Prepared: 03/25/23 10:44 Analyzed: 03/25/23 15:01						
1,2-Dichloroethane (EDC)	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
1,1-Dichloroethene	20.7	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
cis-1,2-Dichloroethene	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
trans-1,2-Dichloroethene	20.9	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
1,2-Dichloropropane	20.3	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
1,3-Dichloropropane	21.3	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
2,2-Dichloropropane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,1-Dichloropropene	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
cis-1,3-Dichloropropene	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
trans-1,3-Dichloropropene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Ethylbenzene	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Hexachlorobutadiene	23.4	2.50	5.00	ug/L	1	20.0	---	117	80-120%	---	---	
2-Hexanone	46.4	5.00	10.0	ug/L	1	40.0	---	116	80-120%	---	---	
Isopropylbenzene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
4-Isopropyltoluene	23.0	0.500	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
Methylene chloride	19.8	5.00	10.0	ug/L	1	20.0	---	99	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	44.6	5.00	10.0	ug/L	1	40.0	---	112	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Naphthalene	19.8	1.00	2.00	ug/L	1	20.0	---	99	80-120%	---	---	
n-Propylbenzene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Styrene	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,1,1,2-Tetrachloroethane	21.7	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
1,1,2,2-Tetrachloroethane	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Tetrachloroethene (PCE)	20.3	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
Toluene	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2,3-Trichlorobenzene	19.6	1.00	2.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2,4-Trichlorobenzene	20.3	1.00	2.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,1,1-Trichloroethane	20.6	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	
1,1,2-Trichloroethane	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Trichloroethene (TCE)	20.0	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
Trichlorofluoromethane	23.5	1.00	2.00	ug/L	1	20.0	---	118	80-120%	---	---	
1,2,3-Trichloropropane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2,4-Trimethylbenzene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,3,5-Trimethylbenzene	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	

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ANALYTICAL REPORT

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C1003 - EPA 5030C						Water						
LCS (23C1003-BS1)				Prepared: 03/25/23 10:44		Analyzed: 03/25/23 15:01						
Vinyl chloride	21.8	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
m,p-Xylene	41.9	0.500	1.00	ug/L	1	40.0	---	105	80-120%	---	---	
o-Xylene	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						
Duplicate (23C1003-DUP1)						Prepared: 03/25/23 10:44		Analyzed: 03/26/23 00:29				H-01
QC Source Sample: Non-SDG (A3C0252-01)												
Acetone	ND	200	400	ug/L	20	---	ND	---	---	---	30%	
Acrylonitrile	ND	60.0	60.0	ug/L	20	---	ND	---	---	---	30%	R-02
Benzene	461	2.00	4.00	ug/L	20	---	472	---	---	2	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	11.2	10.0	20.0	ug/L	20	---	11.4	---	---	2	30%	J
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%	

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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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C1003 - EPA 5030C						Water						
Duplicate (23C1003-DUP1)			Prepared: 03/25/23 10:44				Analyzed: 03/26/23 00:29				H-01	
QC Source Sample: Non-SDG (A3C0252-01)												
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	221	5.00	10.0	ug/L	20	---	226	---	---	2	30%	
Hexachlorobutadiene	ND	50.0	100	ug/L	20	---	ND	---	---	---	30%	
2-Hexanone	ND	100	200	ug/L	20	---	ND	---	---	---	30%	
Isopropylbenzene	23.2	10.0	20.0	ug/L	20	---	24.4	---	---	5	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	89.6	20.0	40.0	ug/L	20	---	86.6	---	---	3	30%	
n-Propylbenzene	67.2	5.00	10.0	ug/L	20	---	69.6	---	---	4	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	36.6	10.0	20.0	ug/L	20	---	36.8	---	---	0.5	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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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C1003 - EPA 5030C						Water						
Duplicate (23C1003-DUP1)			Prepared: 03/25/23 10:44		Analyzed: 03/26/23 00:29		H-01					
QC Source Sample: Non-SDG (A3C0252-01)												
Trichloroethene (TCE)	ND	4.00	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	218	10.0	20.0	ug/L	20	---	224	---	---	3	30%	
1,3,5-Trimethylbenzene	89.4	10.0	20.0	ug/L	20	---	92.6	---	---	4	30%	
Vinyl chloride	ND	4.00	8.00	ug/L	20	---	ND	---	---	---	30%	
m,p-Xylene	651	10.0	20.0	ug/L	20	---	673	---	---	3	30%	
o-Xylene	48.6	5.00	10.0	ug/L	20	---	48.6	---	---	0	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

Duplicate (23C1003-DUP2) Prepared: 03/25/23 10:44 Analyzed: 03/25/23 22:41

QC Source Sample: Non-SDG (A3C0875-02)												
Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director



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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 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

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 23C1003 - EPA 5030C						Water						
Duplicate (23C1003-DUP2)			Prepared: 03/25/23 10:44 Analyzed: 03/25/23 22:41									
QC Source Sample: Non-SDG (A3C0875-02)												
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Report ID:

A3C0601 - 05 19 23 0524

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 23C1003 - EPA 5030C						Water						
Duplicate (23C1003-DUP2)			Prepared: 03/25/23 10:44 Analyzed: 03/25/23 22:41									
QC Source Sample: Non-SDG (A3C0875-02)												
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						

Matrix Spike (23C1003-MS1)

Prepared: 03/25/23 10:44 Analyzed: 03/26/23 02:44

H-01

QC Source Sample: Non-SDG (A3C0252-08)

EPA 8260D

Acetone	2050	500	1000	ug/L	50	2000	ND	103	39-160%	---	---
Acrylonitrile	1040	50.0	100	ug/L	50	1000	ND	104	63-135%	---	---
Benzene	1180	5.00	10.0	ug/L	50	1000	114	107	79-120%	---	---
Bromobenzene	1030	12.5	25.0	ug/L	50	1000	ND	103	80-120%	---	---
Bromochloromethane	1060	25.0	50.0	ug/L	50	1000	ND	106	78-123%	---	---
Bromodichloromethane	1180	25.0	50.0	ug/L	50	1000	ND	118	79-125%	---	---
Bromoform	822	25.0	50.0	ug/L	50	1000	ND	82	66-130%	---	---
Bromomethane	1390	250	250	ug/L	50	1000	ND	139	53-141%	---	---
2-Butanone (MEK)	2150	250	500	ug/L	50	2000	ND	107	56-143%	---	---
n-Butylbenzene	1260	25.0	50.0	ug/L	50	1000	ND	126	75-128%	---	---
sec-Butylbenzene	1210	25.0	50.0	ug/L	50	1000	ND	121	77-126%	---	---
tert-Butylbenzene	1120	25.0	50.0	ug/L	50	1000	ND	112	78-124%	---	---

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Project Manager: John Renda

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QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1003 - EPA 5030C						Water						
Matrix Spike (23C1003-MS1)			Prepared: 03/25/23 10:44		Analyzed: 03/26/23 02:44		H-01					
QC Source Sample: Non-SDG (A3C0252-08)												
Carbon disulfide	1030	250	500	ug/L	50	1000	ND	103	64-133%	---	---	ICV-01
Carbon tetrachloride	1090	25.0	50.0	ug/L	50	1000	ND	109	72-136%	---	---	
Chlorobenzene	1050	12.5	25.0	ug/L	50	1000	ND	105	80-120%	---	---	
Chloroethane	1090	250	250	ug/L	50	1000	ND	109	60-138%	---	---	
Chloroform	1080	25.0	50.0	ug/L	50	1000	ND	108	79-124%	---	---	
Chloromethane	1190	125	250	ug/L	50	1000	ND	119	50-139%	---	---	
2-Chlorotoluene	1060	25.0	50.0	ug/L	50	1000	ND	106	79-122%	---	---	
4-Chlorotoluene	1060	25.0	50.0	ug/L	50	1000	ND	106	78-122%	---	---	
Dibromochloromethane	920	25.0	50.0	ug/L	50	1000	ND	92	74-126%	---	---	
1,2-Dibromo-3-chloropropane	948	125	250	ug/L	50	1000	ND	95	62-128%	---	---	
1,2-Dibromoethane (EDB)	1140	12.5	25.0	ug/L	50	1000	ND	114	77-121%	---	---	
Dibromomethane	1140	25.0	50.0	ug/L	50	1000	ND	114	79-123%	---	---	
1,2-Dichlorobenzene	1110	12.5	25.0	ug/L	50	1000	ND	111	80-120%	---	---	
1,3-Dichlorobenzene	1090	12.5	25.0	ug/L	50	1000	ND	109	80-120%	---	---	
1,4-Dichlorobenzene	1030	12.5	25.0	ug/L	50	1000	ND	103	79-120%	---	---	
Dichlorodifluoromethane	1290	25.0	50.0	ug/L	50	1000	ND	129	32-152%	---	---	
1,1-Dichloroethane	1080	10.0	20.0	ug/L	50	1000	ND	108	77-125%	---	---	
1,2-Dichloroethane (EDC)	1070	10.0	20.0	ug/L	50	1000	ND	107	73-128%	---	---	
1,1-Dichloroethene	1140	10.0	20.0	ug/L	50	1000	ND	114	71-131%	---	---	
cis-1,2-Dichloroethene	1080	10.0	20.0	ug/L	50	1000	ND	108	78-123%	---	---	
trans-1,2-Dichloroethene	1120	10.0	20.0	ug/L	50	1000	ND	112	75-124%	---	---	
1,2-Dichloropropane	1060	12.5	25.0	ug/L	50	1000	ND	106	78-122%	---	---	
1,3-Dichloropropane	1090	25.0	50.0	ug/L	50	1000	ND	109	80-120%	---	---	
2,2-Dichloropropane	750	25.0	50.0	ug/L	50	1000	ND	75	60-139%	---	---	
1,1-Dichloropropene	1180	25.0	50.0	ug/L	50	1000	ND	118	79-125%	---	---	
cis-1,3-Dichloropropene	1000	25.0	50.0	ug/L	50	1000	ND	100	75-124%	---	---	
trans-1,3-Dichloropropene	908	25.0	50.0	ug/L	50	1000	ND	91	73-127%	---	---	
Ethylbenzene	1130	12.5	25.0	ug/L	50	1000	ND	113	79-121%	---	---	
Hexachlorobutadiene	1240	125	250	ug/L	50	1000	ND	124	66-134%	---	---	
2-Hexanone	2260	250	500	ug/L	50	2000	ND	113	57-139%	---	---	
Isopropylbenzene	1190	25.0	50.0	ug/L	50	1000	ND	119	72-131%	---	---	
4-Isopropyltoluene	1230	25.0	50.0	ug/L	50	1000	ND	123	77-127%	---	---	
Methylene chloride	1040	250	500	ug/L	50	1000	ND	104	74-124%	---	---	

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Page 70 of 93



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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C1003 - EPA 5030C						Water						
Matrix Spike (23C1003-MS1)				Prepared: 03/25/23 10:44 Analyzed: 03/26/23 02:44				H-01				
QC Source Sample: Non-SDG (A3C0252-08)												
4-Methyl-2-pentanone (MiBK)	2160	250	500	ug/L	50	2000	ND	108	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	979	25.0	50.0	ug/L	50	1000	ND	98	71-124%	---	---	
Naphthalene	1000	50.0	100	ug/L	50	1000	ND	100	61-128%	---	---	
n-Propylbenzene	1170	12.5	25.0	ug/L	50	1000	51.5	111	76-126%	---	---	
Styrene	1140	25.0	50.0	ug/L	50	1000	ND	114	78-123%	---	---	
1,1,1,2-Tetrachloroethane	1100	10.0	20.0	ug/L	50	1000	ND	110	78-124%	---	---	
1,1,2,2-Tetrachloroethane	1090	12.5	25.0	ug/L	50	1000	ND	109	71-121%	---	---	
Tetrachloroethene (PCE)	1140	10.0	20.0	ug/L	50	1000	ND	114	74-129%	---	---	
Toluene	1030	25.0	50.0	ug/L	50	1000	ND	103	80-121%	---	---	
1,2,3-Trichlorobenzene	1040	50.0	100	ug/L	50	1000	ND	104	69-129%	---	---	
1,2,4-Trichlorobenzene	1070	50.0	100	ug/L	50	1000	ND	107	69-130%	---	---	
1,1,1-Trichloroethane	1100	10.0	20.0	ug/L	50	1000	ND	110	74-131%	---	---	
1,1,2-Trichloroethane	1070	12.5	25.0	ug/L	50	1000	ND	107	80-120%	---	---	
Trichloroethene (TCE)	1090	10.0	20.0	ug/L	50	1000	ND	109	79-123%	---	---	
Trichlorofluoromethane	1370	50.0	100	ug/L	50	1000	ND	137	65-141%	---	---	
1,2,3-Trichloropropane	1060	25.0	50.0	ug/L	50	1000	ND	106	73-122%	---	---	
1,2,4-Trimethylbenzene	1150	25.0	50.0	ug/L	50	1000	ND	115	76-124%	---	---	
1,3,5-Trimethylbenzene	1180	25.0	50.0	ug/L	50	1000	ND	118	75-124%	---	---	
Vinyl chloride	1320	10.0	20.0	ug/L	50	1000	ND	132	58-137%	---	---	
m,p-Xylene	2250	25.0	50.0	ug/L	50	2000	34.5	111	80-121%	---	---	
o-Xylene	1110	12.5	25.0	ug/L	50	1000	ND	111	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1096 - EPA 5030C						Water						
Blank (23C1096-BLK1)			Prepared: 03/28/23 12:00		Analyzed: 03/28/23 13:42							
EPA 8260D SIM												
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
LCS (23C1096-BS1)			Prepared: 03/28/23 12:00		Analyzed: 03/28/23 12:48							
EPA 8260D SIM												
1,1-Dichloroethene	0.214	0.0100	0.0200	ug/L	1	0.200	---	107	80-120%	---	---	
cis-1,2-Dichloroethene	0.214	0.0100	0.0200	ug/L	1	0.200	---	107	80-120%	---	---	
trans-1,2-Dichloroethene	0.214	0.0100	0.0200	ug/L	1	0.200	---	107	80-120%	---	---	
Trichloroethene (TCE)	0.188	0.0100	0.0200	ug/L	1	0.200	---	94	80-120%	---	---	
Vinyl chloride	0.242	0.0100	0.0200	ug/L	1	0.200	---	121	80-120%	---	---	Q-56
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
Duplicate (23C1096-DUP1)			Prepared: 03/28/23 13:43		Analyzed: 03/28/23 14:38							
QC Source Sample: GS-031523-19 (A3C0601-02)												
EPA 8260D SIM												
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.250	0.500	ug/L	25	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1096 - EPA 5030C						Water						
Matrix Spike (23C1096-MS1)			Prepared: 03/28/23 13:43 Analyzed: 03/28/23 15:59						V-01			
QC Source Sample: Non-SDG (A3C0670-03)												
EPA 8260D SIM												
1,1-Dichloroethene	5.74	0.250	0.500	ug/L	25	5.00	ND	115	71-131%	---	---	Q-54
cis-1,2-Dichloroethene	5.54	0.250	0.500	ug/L	25	5.00	ND	111	78-123%	---	---	
trans-1,2-Dichloroethene	5.63	0.250	0.500	ug/L	25	5.00	ND	113	75-124%	---	---	
Trichloroethene (TCE)	4.72	0.250	0.500	ug/L	25	5.00	ND	94	79-123%	---	---	
Vinyl chloride	6.52	0.250	0.500	ug/L	25	5.00	ND	130	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						

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A3C0601 - 05 19 23 0524

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 23C0677 - EPA 3511 (Bottle Extraction)						Water						
Blank (23C0677-BLK1)			Prepared: 03/17/23 09:07 Analyzed: 03/17/23 18:10									
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)fluoranthene	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: 119 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		119 %		80-132 %		"						

LCS (23C0677-BS1)

Prepared: 03/17/23 09:07 Analyzed: 03/17/23 18:43

EPA 8270E LVI												
Acenaphthene	1.61	0.0160	0.0320	ug/L	1	1.60	---	101	80-120%	---	---	
Acenaphthylene	1.80	0.0160	0.0320	ug/L	1	1.60	---	113	80-124%	---	---	
Anthracene	1.68	0.0160	0.0320	ug/L	1	1.60	---	105	80-123%	---	---	
Benz(a)anthracene	1.78	0.00800	0.0160	ug/L	1	1.60	---	111	80-122%	---	---	
Benzo(a)pyrene	2.01	0.00800	0.0160	ug/L	1	1.60	---	126	80-129%	---	---	
Benzo(b)fluoranthene	1.94	0.00800	0.0160	ug/L	1	1.60	---	121	80-124%	---	---	
Benzo(k)fluoranthene	1.93	0.00800	0.0160	ug/L	1	1.60	---	121	80-125%	---	---	
Benzo(g,h,i)perylene	1.68	0.0160	0.0320	ug/L	1	1.60	---	105	80-120%	---	---	

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0677 - EPA 3511 (Bottle Extraction)						Water						
LCS (23C0677-BS1)			Prepared: 03/17/23 09:07		Analyzed: 03/17/23 18:43							
Chrysene	1.69	0.00800	0.0160	ug/L	1	1.60	---	106	80-120%	---	---	
Dibenz(a,h)anthracene	1.60	0.00800	0.0160	ug/L	1	1.60	---	100	80-120%	---	---	
Fluoranthene	1.65	0.0160	0.0320	ug/L	1	1.60	---	103	80-126%	---	---	
Fluorene	1.74	0.0160	0.0320	ug/L	1	1.60	---	109	77-127%	---	---	
Indeno(1,2,3-cd)pyrene	1.57	0.00800	0.0160	ug/L	1	1.60	---	98	80-121%	---	---	
1-Methylnaphthalene	1.56	0.0320	0.0640	ug/L	1	1.60	---	98	53-148%	---	---	
2-Methylnaphthalene	1.57	0.0320	0.0640	ug/L	1	1.60	---	98	48-150%	---	---	
Naphthalene	1.62	0.0320	0.0640	ug/L	1	1.60	---	101	78-120%	---	---	
Phenanthrene	1.56	0.0320	0.0640	ug/L	1	1.60	---	98	80-120%	---	---	
Pyrene	1.67	0.0160	0.0320	ug/L	1	1.60	---	104	80-125%	---	---	
Carbazole	1.95	0.0160	0.0320	ug/L	1	1.60	---	122	65-141%	---	---	
Dibenzofuran	1.78	0.0160	0.0320	ug/L	1	1.60	---	111	76-121%	---	---	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 120 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		123 %		80-132 %		"						

LCS Dup (23C0677-BSD1)			Prepared: 03/17/23 09:07 Analyzed: 03/17/23 19:16						Q-19			
EPA 8270E LVI												
Acenaphthene	1.57	0.0160	0.0320	ug/L	1	1.60	---	98	80-120%	2	30%	
Acenaphthylene	1.81	0.0160	0.0320	ug/L	1	1.60	---	113	80-124%	0.4	30%	
Anthracene	1.75	0.0160	0.0320	ug/L	1	1.60	---	109	80-123%	4	30%	
Benz(a)anthracene	1.82	0.00800	0.0160	ug/L	1	1.60	---	114	80-122%	2	30%	
Benzo(a)pyrene	2.01	0.00800	0.0160	ug/L	1	1.60	---	126	80-129%	0.04	30%	
Benzo(b)fluoranthene	1.95	0.00800	0.0160	ug/L	1	1.60	---	122	80-124%	0.8	30%	
Benzo(k)fluoranthene	1.93	0.00800	0.0160	ug/L	1	1.60	---	121	80-125%	0.3	30%	
Benzo(g,h,i)perylene	1.66	0.0160	0.0320	ug/L	1	1.60	---	103	80-120%	2	30%	
Chrysene	1.71	0.00800	0.0160	ug/L	1	1.60	---	107	80-120%	0.7	30%	
Dibenz(a,h)anthracene	1.62	0.00800	0.0160	ug/L	1	1.60	---	101	80-120%	1	30%	
Fluoranthene	1.72	0.0160	0.0320	ug/L	1	1.60	---	107	80-126%	4	30%	
Fluorene	1.70	0.0160	0.0320	ug/L	1	1.60	---	106	77-127%	2	30%	
Indeno(1,2,3-cd)pyrene	1.56	0.00800	0.0160	ug/L	1	1.60	---	98	80-121%	0.2	30%	
1-Methylnaphthalene	1.42	0.0320	0.0640	ug/L	1	1.60	---	89	53-148%	10	30%	
2-Methylnaphthalene	1.45	0.0320	0.0640	ug/L	1	1.60	---	91	48-150%	8	30%	
Naphthalene	1.59	0.0320	0.0640	ug/L	1	1.60	---	100	78-120%	2	30%	
Phenanthrene	1.60	0.0320	0.0640	ug/L	1	1.60	---	100	80-120%	2	30%	

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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 23C0677 - EPA 3511 (Bottle Extraction)						Water						
LCS Dup (23C0677-BSD1)			Prepared: 03/17/23 09:07 Analyzed: 03/17/23 19:16								Q-19	
Pyrene	1.70	0.0160	0.0320	ug/L	1	1.60	---	106	80-125%	2	30%	
Carbazole	1.96	0.0160	0.0320	ug/L	1	1.60	---	123	65-141%	0.6	30%	
Dibenzofuran	1.76	0.0160	0.0320	ug/L	1	1.60	---	110	76-121%	0.7	30%	
Surr: Acenaphthylene-d8 (Surr)		Recovery: 120 %		Limits: 78-134 %		Dilution: 1x						
Benzo(a)pyrene-d12 (Surr)		122 %		80-132 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23C1137 - EPA 3015A						Water						
Blank (23C1137-BLK1)			Prepared: 03/29/23 06:57 Analyzed: 03/30/23 02:02									
EPA 6020B												
Aluminum	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Antimony	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Arsenic	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Beryllium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Chromium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Copper	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	25.0	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	0.110	0.200	ug/L	1	---	---	---	---	---	---	
Manganese	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Mercury	ND	0.0400	0.0800	ug/L	1	---	---	---	---	---	---	
Nickel	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Selenium	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Thallium	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Vanadium	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Zinc	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	

LCS (23C1137-BS1)

Prepared: 03/29/23 06:57 Analyzed: 03/30/23 02:07

EPA 6020B												
Aluminum	2840	25.0	50.0	ug/L	1	2780	---	102	80-120%	---	---	
Antimony	27.2	0.500	1.00	ug/L	1	27.8	---	98	80-120%	---	---	
Arsenic	53.3	0.500	1.00	ug/L	1	55.6	---	96	80-120%	---	---	
Barium	56.8	1.00	2.00	ug/L	1	55.6	---	102	80-120%	---	---	
Beryllium	26.9	0.100	0.200	ug/L	1	27.8	---	97	80-120%	---	---	
Cadmium	53.7	0.100	0.200	ug/L	1	55.6	---	97	80-120%	---	---	
Chromium	52.4	1.00	2.00	ug/L	1	55.6	---	94	80-120%	---	---	
Copper	51.5	1.00	2.00	ug/L	1	55.6	---	93	80-120%	---	---	
Iron	2750	25.0	50.0	ug/L	1	2780	---	99	80-120%	---	---	
Lead	54.7	0.110	0.200	ug/L	1	55.6	---	99	80-120%	---	---	
Manganese	55.5	0.500	1.00	ug/L	1	55.6	---	100	80-120%	---	---	
Mercury	1.05	0.0400	0.0800	ug/L	1	1.11	---	94	80-120%	---	---	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524**

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 23C1137 - EPA 3015A						Water						
LCS (23C1137-BS1)				Prepared: 03/29/23 06:57 Analyzed: 03/30/23 02:07								
Nickel	52.9	1.00	2.00	ug/L	1	55.6	---	95	80-120%	---	---	
Selenium	27.1	0.500	1.00	ug/L	1	27.8	---	98	80-120%	---	---	
Silver	26.0	0.100	0.200	ug/L	1	27.8	---	94	80-120%	---	---	
Thallium	27.1	0.100	0.200	ug/L	1	27.8	---	97	80-120%	---	---	
Vanadium	51.7	1.00	2.00	ug/L	1	55.6	---	93	80-120%	---	---	
Zinc	57.2	2.00	4.00	ug/L	1	55.6	---	103	80-120%	---	---	
Duplicate (23C1137-DUP1)				Prepared: 03/29/23 06:57 Analyzed: 03/30/23 02:28								
QC Source Sample: Non-SDG (A3C0599-01)												
Aluminum	347	25.0	50.0	ug/L	1	---	342	---	---	2	20%	
Arsenic	11.4	0.500	1.00	ug/L	1	---	11.2	---	---	2	20%	
Barium	52.3	1.00	2.00	ug/L	1	---	52.2	---	---	0.1	20%	
Cadmium	1.29	0.100	0.200	ug/L	1	---	1.30	---	---	1	20%	
Chromium	1.41	1.00	2.00	ug/L	1	---	1.40	---	---	0.3	20%	
Copper	4.59	1.00	2.00	ug/L	1	---	4.66	---	---	1	20%	
Iron	831	25.0	50.0	ug/L	1	---	821	---	---	1	20%	
Lead	1.20	0.110	0.200	ug/L	1	---	1.30	---	---	8	20%	
Manganese	802	0.500	1.00	ug/L	1	---	668	---	---	18	20%	
Mercury	ND	0.0400	0.0800	ug/L	1	---	ND	---	---	---	20%	
Nickel	4.65	1.00	2.00	ug/L	1	---	4.66	---	---	0.05	20%	
Selenium	5.38	0.500	1.00	ug/L	1	---	5.37	---	---	0.2	20%	
Thallium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	
Vanadium	4.43	1.00	2.00	ug/L	1	---	4.39	---	---	0.8	20%	
Zinc	9.01	2.00	4.00	ug/L	1	---	9.05	---	---	0.4	20%	
Duplicate (23C1137-DUP2)				Prepared: 03/29/23 06:57 Analyzed: 03/30/23 14:03								
QC Source Sample: Non-SDG (A3C0599-01RE1)												
Antimony	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	20%	Q-16
Beryllium	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	Q-16
Silver	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	20%	Q-16

Matrix Spike (23C1137-MS1)

Prepared: 03/29/23 06:57 Analyzed: 03/30/23 02:33

QC Source Sample: Non-SDG (A3C0599-01)

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6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****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 23C1137 - EPA 3015A						Water						
Matrix Spike (23C1137-MS1)				Prepared: 03/29/23 06:57 Analyzed: 03/30/23 02:33								
QC Source Sample: Non-SDG (A3C0599-01)												
EPA 6020B												
Aluminum	3120	25.0	50.0	ug/L	1	2780	342	100	75-125%	---	---	Q-65
Arsenic	66.2	0.500	1.00	ug/L	1	55.6	11.2	99	75-125%	---	---	
Barium	112	1.00	2.00	ug/L	1	55.6	52.2	107	75-125%	---	---	
Cadmium	57.1	0.100	0.200	ug/L	1	55.6	1.30	100	75-125%	---	---	
Chromium	54.4	1.00	2.00	ug/L	1	55.6	1.40	95	75-125%	---	---	
Copper	55.0	1.00	2.00	ug/L	1	55.6	4.66	91	75-125%	---	---	
Iron	3520	25.0	50.0	ug/L	1	2780	821	97	75-125%	---	---	
Lead	55.4	0.110	0.200	ug/L	1	55.6	1.30	97	75-125%	---	---	
Manganese	688	0.500	1.00	ug/L	1	55.6	668	37	75-125%	---	---	
Mercury	1.06	0.0400	0.0800	ug/L	1	1.11	ND	96	75-125%	---	---	
Nickel	57.1	1.00	2.00	ug/L	1	55.6	4.66	94	75-125%	---	---	
Selenium	32.2	0.500	1.00	ug/L	1	27.8	5.37	96	75-125%	---	---	
Thallium	26.3	0.100	0.200	ug/L	1	27.8	ND	95	75-125%	---	---	
Vanadium	57.2	1.00	2.00	ug/L	1	55.6	4.39	95	75-125%	---	---	
Zinc	64.0	2.00	4.00	ug/L	1	55.6	9.05	99	75-125%	---	---	
Matrix Spike (23C1137-MS2)				Prepared: 03/29/23 06:57 Analyzed: 03/30/23 14:18								
QC Source Sample: Non-SDG (A3C0599-01RE1)												
EPA 6020B												
Antimony	28.5	0.500	1.00	ug/L	1	27.8	ND	103	75-125%	---	---	Q-16
Beryllium	27.2	0.100	0.200	ug/L	1	27.8	ND	98	75-125%	---	---	Q-16
Silver	26.5	0.100	0.200	ug/L	1	27.8	ND	95	75-125%	---	---	Q-16

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Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0733 - Lachat Micro Dist - aqueous						Water						
Blank (23C0733-BLK1)			Prepared: 03/20/23 09:33 Analyzed: 03/21/23 14:29									
EPA 335.4												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	B-02
LCS (23C0733-BS1)			Prepared: 03/20/23 09:33 Analyzed: 03/21/23 14:31									
EPA 335.4												
Total Cyanide	0.266	0.00500	0.00500	mg/L	1	0.250	---	106	90-110%	---	---	B-02
Duplicate (23C0733-DUP3)			Prepared: 03/20/23 09:33 Analyzed: 03/21/23 18:01									
QC Source Sample: GS-031523-18 (A3C0601-01RE1)												
EPA 335.4												
Total Cyanide	0.908	0.0250	0.0250	mg/L	5	---	0.952	---	---	5	10%	B-02, Q-16
Matrix Spike (23C0733-MS2)			Prepared: 03/20/23 09:33 Analyzed: 03/21/23 15:25									
QC Source Sample: Non-SDG (A3C0670-02)												
EPA 335.4												
Total Cyanide	0.285	0.00500	0.00500	mg/L	1	0.250	0.0180	107	90-110%	---	---	B-02
Matrix Spike (23C0733-MS3)			Prepared: 03/20/23 09:33 Analyzed: 03/21/23 18:03									
QC Source Sample: GS-031523-18 (A3C0601-01RE1)												
EPA 335.4												
Total Cyanide	0.680	0.0250	0.0250	mg/L	5	0.250	0.952	-109	90-110%	---	---	B-02, Q-02, Q-16
Matrix Spike Dup (23C0733-MSD2)			Prepared: 03/20/23 09:33 Analyzed: 03/21/23 15:27									
QC Source Sample: Non-SDG (A3C0670-02)												
Total Cyanide	0.287	0.00500	0.00500	mg/L	1	0.250	0.0180	108	90-110%	0.6	10%	B-02

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Portland, OR 97219

Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0919 - Lachat Micro Dist - aqueous						Water						
Blank (23C0919-BLK1)			Prepared: 03/23/23 12:08 Analyzed: 03/23/23 15:31									
EPA 335.4												
Total Cyanide	ND	0.00500	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23C0919-BS1)			Prepared: 03/23/23 12:08 Analyzed: 03/23/23 15:33									
EPA 335.4												
Total Cyanide	0.269	0.00500	0.00500	mg/L	1	0.250	---	108	90-110%	---	---	
Duplicate (23C0919-DUP1)			Prepared: 03/23/23 12:08 Analyzed: 03/23/23 15:39									
QC Source Sample: Non-SDG (A3C0492-02RE1)												
Total Cyanide	0.0118	0.00500	0.00500	mg/L	1	---	0.0123	---	---	4	10%	
Duplicate (23C0919-DUP2)			Prepared: 03/23/23 12:08 Analyzed: 03/23/23 15:53									
QC Source Sample: Non-SDG (A3C0492-03RE1)												
Total Cyanide	0.0154	0.00500	0.00500	mg/L	1	---	0.0154	---	---	0	10%	
Matrix Spike (23C0919-MS1)			Prepared: 03/23/23 12:08 Analyzed: 03/23/23 15:41									
QC Source Sample: Non-SDG (A3C0492-02RE1)												
EPA 335.4												
Total Cyanide	0.285	0.00500	0.00500	mg/L	1	0.250	0.0123	109	90-110%	---	---	
Matrix Spike (23C0919-MS2)			Prepared: 03/23/23 12:08 Analyzed: 03/23/23 15:55									
QC Source Sample: Non-SDG (A3C0492-03RE1)												
EPA 335.4												
Total Cyanide	0.288	0.00500	0.00500	mg/L	1	0.250	0.0154	109	90-110%	---	---	

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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 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****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 23C0905 - Method Prep: Aq						Water						
Blank (23C0905-BLK1)			Prepared: 03/23/23 10:44 Analyzed: 03/23/23 14:30									
<u>D6888-09</u>												
Available Cyanide	ND	0.00100	0.00200	mg/L	1	---	---	---	---	---	---	
LCS (23C0905-BS1)			Prepared: 03/23/23 10:44 Analyzed: 03/23/23 14:32									
<u>D6888-09</u>												
Available Cyanide	0.0243	0.00100	0.00200	mg/L	1	0.0250	---	97	90-117%	---	---	
Matrix Spike (23C0905-MS1)			Prepared: 03/23/23 10:44 Analyzed: 03/23/23 14:44									
<u>QC Source Sample: GS-031523-22 (A3C0601-05)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0253	0.00101	0.00201	mg/L	1	0.0251	ND	101	82-130%	---	---	
Matrix Spike (23C0905-MS2)			Prepared: 03/23/23 10:44 Analyzed: 03/23/23 15:06									
<u>QC Source Sample: Non-SDG (A3C0670-02)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0259	0.00101	0.00201	mg/L	1	0.0251	ND	103	82-130%	---	---	
Matrix Spike Dup (23C0905-MSD1)			Prepared: 03/23/23 10:44 Analyzed: 03/23/23 14:45									
<u>QC Source Sample: GS-031523-22 (A3C0601-05)</u>												
<u>D6888-09</u>												
Available Cyanide	0.0270	0.00101	0.00201	mg/L	1	0.0251	ND	107	82-130%	7	11%	
Matrix Spike Dup (23C0905-MSD2)			Prepared: 03/23/23 10:44 Analyzed: 03/23/23 15:08									
<u>QC Source Sample: Non-SDG (A3C0670-02)</u>												
Available Cyanide	0.0261	0.00101	0.00201	mg/L	1	0.0251	ND	104	82-130%	0.9	11%	

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Project: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

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 23C0726 - Microdiffusion						Water						
Blank (23C0726-BLK1)			Prepared: 03/20/23 09:54		Analyzed: 03/20/23 15:13							
<u>D4282-02</u>												
Free Cyanide	ND	0.00250	0.00500	mg/L	1	---	---	---	---	---	---	
LCS (23C0726-BS1)			Prepared: 03/20/23 09:54		Analyzed: 03/20/23 15:13							
<u>D4282-02</u>												
Free Cyanide	0.0638	0.00250	0.00500	mg/L	1	0.0667	---	96	74-120%	---	---	
LCS Dup (23C0726-BSD1)			Prepared: 03/20/23 09:54		Analyzed: 03/20/23 15:19							
<u>D4282-02</u>												
Free Cyanide	0.0618	0.00250	0.00500	mg/L	1	0.0667	---	93	74-120%	3	20%	
Duplicate (23C0726-DUP1)			Prepared: 03/20/23 09:54		Analyzed: 03/20/23 15:19							
<u>QC Source Sample: GS-031523-18 (A3C0601-01)</u>												
<u>D4282-02</u>												
Free Cyanide	0.00412	0.00250	0.00500	mg/L	1	---	0.00493	---	---	18	20%	J
Matrix Spike (23C0726-MS1)			Prepared: 03/20/23 09:54		Analyzed: 03/20/23 15:19							
<u>QC Source Sample: GS-031523-18 (A3C0601-01)</u>												
<u>D4282-02</u>												
Free Cyanide	0.0657	0.00250	0.00500	mg/L	1	0.0667	0.00493	91	74-120%	---	---	

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ORELAP ID: OR100062**Anchor QEA, LLC**6720 SW Macadam Ave. Suite 125
Portland, OR 97219Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****SAMPLE PREPARATION INFORMATION****Volatile Organic Compounds by EPA 8260D****Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0904							
A3C0601-01RE1	WG	EPA 8260D	03/15/23 09:55	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
A3C0601-02RE1	WG	EPA 8260D	03/15/23 10:15	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
A3C0601-03RE1	WG	EPA 8260D	03/15/23 10:45	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
A3C0601-04RE1	WG	EPA 8260D	03/15/23 11:00	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
A3C0601-05RE1	WG	EPA 8260D	03/15/23 13:20	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
A3C0601-06RE1	WG	EPA 8260D	03/15/23 13:30	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
A3C0601-07RE1	WG	EPA 8260D	03/15/23 14:15	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
A3C0601-08RE1	WG	EPA 8260D	03/15/23 14:25	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
A3C0601-09RE1	WG	EPA 8260D	03/15/23 14:35	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
A3C0601-10	W	EPA 8260D	03/15/23 15:00	03/23/23 12:31	5mL/5mL	5mL/5mL	1.00
Batch: 23C1003							
A3C0601-02RE2	WG	EPA 8260D	03/15/23 10:15	03/25/23 10:44	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 8260D SIM**Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C1096							
A3C0601-02	WG	EPA 8260D SIM	03/15/23 10:15	03/28/23 13:43	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: 23C0677							
A3C0601-01	WG	EPA 8270E LVI	03/15/23 09:55	03/17/23 09:07	108.3mL/5mL	125mL/5mL	1.15
A3C0601-02	WG	EPA 8270E LVI	03/15/23 10:15	03/17/23 09:07	113.21mL/5mL	125mL/5mL	1.10
A3C0601-03	WG	EPA 8270E LVI	03/15/23 10:45	03/17/23 09:07	102.66mL/5mL	125mL/5mL	1.22
A3C0601-04	WG	EPA 8270E LVI	03/15/23 11:00	03/17/23 09:07	107.22mL/5mL	125mL/5mL	1.17
A3C0601-05	WG	EPA 8270E LVI	03/15/23 13:20	03/17/23 09:07	108.85mL/5mL	125mL/5mL	1.15
A3C0601-06	WG	EPA 8270E LVI	03/15/23 13:30	03/17/23 09:07	113.49mL/5mL	125mL/5mL	1.10
A3C0601-07	WG	EPA 8270E LVI	03/15/23 14:15	03/17/23 09:07	108.99mL/5mL	125mL/5mL	1.15
A3C0601-08	WG	EPA 8270E LVI	03/15/23 14:25	03/17/23 09:07	103.36mL/5mL	125mL/5mL	1.21
A3C0601-09	WG	EPA 8270E LVI	03/15/23 14:35	03/17/23 09:07	123.71mL/5mL	125mL/5mL	1.01

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Darwin Thomas, Business Development Director

**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 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****SAMPLE PREPARATION INFORMATION****Total Metals by EPA 6020B (ICPMS)****Prep: EPA 3015A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C1137							
A3C0601-01	WG	EPA 6020B	03/15/23 09:55	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-01RE1	WG	EPA 6020B	03/15/23 09:55	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-01RE2	WG	EPA 6020B	03/15/23 09:55	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-01RE3	WG	EPA 6020B	03/15/23 09:55	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-01RE5	WG	EPA 6020B	03/15/23 09:55	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-02	WG	EPA 6020B	03/15/23 10:15	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-02RE1	WG	EPA 6020B	03/15/23 10:15	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-03	WG	EPA 6020B	03/15/23 10:45	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-03RE1	WG	EPA 6020B	03/15/23 10:45	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-04	WG	EPA 6020B	03/15/23 11:00	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-04RE1	WG	EPA 6020B	03/15/23 11:00	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-05	WG	EPA 6020B	03/15/23 13:20	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-05RE1	WG	EPA 6020B	03/15/23 13:20	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-06	WG	EPA 6020B	03/15/23 13:30	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-06RE1	WG	EPA 6020B	03/15/23 13:30	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-07	WG	EPA 6020B	03/15/23 14:15	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-07RE1	WG	EPA 6020B	03/15/23 14:15	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-07RE2	WG	EPA 6020B	03/15/23 14:15	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-07RE3	WG	EPA 6020B	03/15/23 14:15	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-08	WG	EPA 6020B	03/15/23 14:25	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-08RE1	WG	EPA 6020B	03/15/23 14:25	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-08RE2	WG	EPA 6020B	03/15/23 14:25	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-08RE3	WG	EPA 6020B	03/15/23 14:25	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-09	WG	EPA 6020B	03/15/23 14:35	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-09RE1	WG	EPA 6020B	03/15/23 14:35	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00
A3C0601-09RE2	WG	EPA 6020B	03/15/23 14:35	03/29/23 06:57	45mL/50mL	45mL/50mL	1.00

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

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0733							
A3C0601-01RE1	WG	EPA 335.4	03/15/23 09:55	03/20/23 09:33	6mL/6mL	6mL/6mL	1.00
A3C0601-02RE1	WG	EPA 335.4	03/15/23 10:15	03/20/23 09:33	6mL/6mL	6mL/6mL	1.00
A3C0601-03RE1	WG	EPA 335.4	03/15/23 10:45	03/20/23 09:33	6mL/6mL	6mL/6mL	1.00
A3C0601-07	WG	EPA 335.4	03/15/23 14:15	03/20/23 09:33	6mL/6mL	6mL/6mL	1.00

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Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**Project Number: **000029-02.84 T-01.001E**Project Manager: **John Renda****Report ID:****A3C0601 - 05 19 23 0524****SAMPLE PREPARATION INFORMATION****Total Cyanide by Flow Analysis (Aqueous)****Prep: Lachat Micro Dist - aqueous**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3C0601-09	WG	EPA 335.4	03/15/23 14:35	03/20/23 09:33	6mL/6mL	6mL/6mL	1.00
Batch: 23C0919							
A3C0601-04RE1	WG	EPA 335.4	03/15/23 11:00	03/23/23 12:08	6mL/6mL	6mL/6mL	1.00
A3C0601-05RE1	WG	EPA 335.4	03/15/23 13:20	03/23/23 12:08	6mL/6mL	6mL/6mL	1.00
A3C0601-06RE1	WG	EPA 335.4	03/15/23 13:30	03/23/23 12:08	6mL/6mL	6mL/6mL	1.00
A3C0601-08RE1	WG	EPA 335.4	03/15/23 14:25	03/23/23 12:08	6mL/6mL	6mL/6mL	1.00

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

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0905							
A3C0601-01	WG	D6888-09	03/15/23 09:55	03/23/23 10:44	5mL/5mL	5mL/5mL	1.00
A3C0601-02	WG	D6888-09	03/15/23 10:15	03/23/23 10:44	5mL/5mL	5mL/5mL	1.00
A3C0601-03	WG	D6888-09	03/15/23 10:45	03/23/23 10:44	5mL/5mL	5mL/5mL	1.00
A3C0601-04	WG	D6888-09	03/15/23 11:00	03/23/23 10:44	5mL/5mL	5mL/5mL	1.00
A3C0601-05	WG	D6888-09	03/15/23 13:20	03/23/23 10:44	5mL/5mL	5mL/5mL	1.00
A3C0601-06	WG	D6888-09	03/15/23 13:30	03/23/23 10:44	5mL/5mL	5mL/5mL	1.00
A3C0601-07	WG	D6888-09	03/15/23 14:15	03/23/23 10:44	5mL/5mL	5mL/5mL	1.00
A3C0601-08	WG	D6888-09	03/15/23 14:25	03/23/23 10:44	5mL/5mL	5mL/5mL	1.00
A3C0601-09	WG	D6888-09	03/15/23 14:35	03/23/23 10:44	5mL/5mL	5mL/5mL	1.00

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

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23C0726							
A3C0601-01	WG	D4282-02	03/15/23 09:55	03/20/23 09:54	3mL/3mL	3mL/3mL	1.00
A3C0601-02	WG	D4282-02	03/15/23 10:15	03/20/23 09:54	3mL/3mL	3mL/3mL	1.00
A3C0601-03	WG	D4282-02	03/15/23 10:45	03/20/23 09:54	3mL/3mL	3mL/3mL	1.00
A3C0601-04	WG	D4282-02	03/15/23 11:00	03/20/23 09:54	3mL/3mL	3mL/3mL	1.00
A3C0601-05	WG	D4282-02	03/15/23 13:20	03/20/23 09:54	3mL/3mL	3mL/3mL	1.00
A3C0601-06	WG	D4282-02	03/15/23 13:30	03/20/23 09:54	3mL/3mL	3mL/3mL	1.00
A3C0601-07	WG	D4282-02	03/15/23 14:15	03/20/23 09:54	3mL/3mL	3mL/3mL	1.00
A3C0601-08	WG	D4282-02	03/15/23 14:25	03/20/23 09:54	3mL/3mL	3mL/3mL	1.00
A3C0601-09	WG	D4282-02	03/15/23 14:35	03/20/23 09:54	3mL/3mL	3mL/3mL	1.00

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

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Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: **Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.**

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

Project Manager: **John Renda**

Report ID:

A3C0601 - 05 19 23 0524

QUALIFIER DEFINITIONS

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

Apex Laboratories

- B-02** Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- E** Estimated Value. The result is above the calibration range of the instrument.
- H-01** Analyzed outside the recommended holding time.
- ICV-01** Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- 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-02** Spike recovery is outside of established control limits due to matrix interference.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-16** Reanalysis of an original Batch QC sample.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-30** Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +3%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -1%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -14%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -2%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -4%. The results are reported as Estimated Values.

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Project Manager: **John Renda**

Report ID:

A3C0601 - 05 19 23 0524

- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -6%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -7%. The results are reported as Estimated Values.
- Q-54i** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -9%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- 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-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- V-01** Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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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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A3C0601 - 05 19 23 0524

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
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

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

Field Testing Parameters

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

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ANALYTICAL REPORT

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 1Q 2023 Perf. Mon.

Project Number: 000029-02.84 T-01.001E

Project Manager: John Renda

Report ID:

A3C0601 - 05 19 23 0524

APEX LABS		CHAIN OF CUSTODY		Lab # <u>8900001</u> COC <u>1 of 1</u>	
6700 SW Sandburg St., Tigard, OR 97223 PH: 503-718-2323		Company: <u>Anchor QEA</u> Project Mgr: <u>John Renda</u> Project Name: <u>Gasco-MGP Only Mon. Wells</u> Project #: <u>000029-02.84</u>		Project #: <u>T-01.001E</u>	
Address: <u>6720 S. Macadam Av. #125 Portland, OR</u> Phone: <u>503-670-1108</u> Email: <u>jenela@anchorqea.com</u> PO #		Sampled by: <u>LAFFAN / m2jtcnecy</u>			
Site Location:		ANALYSIS REQUEST		Frozen Sample	
State <u>OR</u>	County <u>Mult.</u>				
SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	
<u>GS-031523-18</u>	<u>3/15/23</u>	<u>0855</u>	<u>W610</u>		
<u>GS-031523-19</u>	<u>1015</u>				
<u>GS-031523-20</u>	<u>1045</u>				
<u>GS-031523-21</u>	<u>1100</u>				
<u>GS-031523-22</u>	<u>1320</u>				
<u>GS-031523-23</u>	<u>1330</u>				
<u>GS-031523-24</u>	<u>1415</u>				
<u>GS-031523-25</u>	<u>1425</u>				
<u>GS-031523-26</u>	<u>1435</u>				
<u>7B-031523</u>	<u>1500</u>	<u>W</u>	<u>1</u>		
TAT Request (circle)		1 Day 2 Day 3 Day		Other: _____	
SAMPLES ARE HELD FOR 30 DAYS		Standard Turn Around Time (TAT) = 10 Business Days		SPECIAL INSTRUCTIONS: <u>Short hold time -> Free Ch-</u>	
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:		RECEIVED BY:	
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>	
Date: <u>3/16/23</u>	Date: <u>3/16/23</u>	Date: <u>3/16/23</u>		Date: <u>3/16/23</u>	
Printed Name: <u>Day Laffan</u>	Printed Name: <u>Day Laffan</u>	Printed Name: <u>Day Laffan</u>		Printed Name: <u>Day Laffan</u>	
Time: <u>0828</u>	Time: <u>0828</u>	Time: <u>0828</u>		Time: <u>0828</u>	
Company: <u>Anchor QEA</u>	Company: <u>Anchor QEA</u>	Company: <u>Anchor QEA</u>		Company: <u>Anchor QEA</u>	

Apex Laboratories

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

Darwin Thomas, Business Development Director



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APEX LABS COOLER RECEIPT FORM

Client: Anchor QEA Element WO#: A3 C0601Project/Project #: Gasco-MGP Only Mon. Wells 1Q 2023 Perf. Mon.

Delivery Info:

Date/time received: 3/16/23 @ 828 By: JSDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 3/16/23 @ 916 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>2.6</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) (N) Possible reason why: _____Green dots applied to out of temperature samples? Yes ☐ No ☒Out of temperature samples form initiated? Yes ☐ No ☒Sample Inspection: Date/time inspected: 3/16/23 @ 1402 By: JSAll samples intact? Yes ☒ No ☐ Comments: _____Bottle labels/COCs agree? Yes ☒ No ☐ Comments: TB# 3255COC/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: 3/6 for GS-031523-22Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☐ No ☒ NA ☐Comments: PH 7 on GS-031523 18, 19, 25.

Additional information: _____

Labeled by:

JS

Witness:

AKK

Cooler Inspected by:

JS

Form Y-003 R-00

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Page 93 of 93