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31 December 2013

Arthur Koepsell  
Colorado Oil and Gas Conservation Commission- Den  
1120 Lincoln Street  
Denver, CO 80203  
RE: Gas MW + Ba, B, BTEX

Enclosed are the results of analyses for samples received by the laboratory on 12/16/13 12:12.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Debbie Zufelt". The signature is written in a cursive, flowing style.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. Our NELAP accreditation can be viewed at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water



Colorado Oil and Gas Conservation Commission- Den	Project: Gas MW + Ba, B, BTEX	
1120 Lincoln Street	Project Name / Number: [none]	<b>Reported:</b>
Denver CO, 80203	Project Manager: Arthur Koepsell	12/31/13 12:03

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Arens Water Well Complaint #200392550- FCG121613-L1	1312117-01	Water	12/16/13 11:05	12/16/13 12:12

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Colorado Oil and Gas Conservation Commission- Den 1120 Lincoln Street Denver CO, 80203	Project: Gas MW + Ba, B, BTEX Project Name / Number: [none] Project Manager: Arthur Koepsell	Reported: 12/31/13 12:03
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**Arens Water Well Complaint #200392550- FCG121613-L1  
707134**

**1312117-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Bicarbonate*	226	10.0		mg/L	2	12/27/13	2320 B		ABP
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	12/27/13	2320 B		ABP
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	12/27/13	2320 B		ABP
Alkalinity, Total*	226	10.0		mg/L	2	12/27/13	2320 B		ABP
Chloride*	11.0	10.0	5.00	mg/L	1	12/30/13	4500-Cl- C		JAW
Conductivity*	452	10.0		uS/cm	1	12/18/13	2510 B		MJV
Fluoride*	0.317	0.200	0.0194	mg/L	1	12/23/13	4500-F- C		ABP
Nitrate/Nitrite as N*	1.32	0.020	0.010	mg/L	1	12/18/13	EPA353.2		KLJ
pH*	6.98			pH Units	1	12/17/13	EPA150.1		MJV
Sulfate	11.0	10.0	1.08	mg/L	1	12/18/13	4500-SO42- E		ABP
TDS*	270	10.0		mg/L	1	12/18/13	EPA160.1		JAW

**Total Recoverable Metals by ICP (E200.7)**

Boron	<0.300	0.300	0.033	mg/L	1	12/19/13	EPA200.7		JGS
Calcium*	53.3	1.00	0.004	mg/L	1	12/19/13	EPA200.7		JGS
Hardness	163	6.62	0.088	mg/L	1	12/19/13	Calc		JGS
Iron*	<0.050	0.050	0.004	mg/L	1	12/19/13	EPA200.7		JGS
Magnesium*	7.29	1.00	0.019	mg/L	1	12/19/13	EPA200.7		JGS
Potassium*	1.05	1.00	0.364	mg/L	1	12/19/13	EPA200.7		JGS
Sodium*	38.9	1.00	0.004	mg/L	1	12/19/13	EPA200.7		JGS

**Total Recoverable Metals by ICPMS (E200.8)**

Barium*	0.146	0.0005	0.00004	mg/L	1	12/20/13	EPA200.8		JGS
Manganese*	<0.0005	0.0005	0.0004	mg/L	1	12/20/13	EPA200.8		JGS
Selenium*	0.0043	0.0010	0.0004	mg/L	1	12/20/13	EPA200.8		JGS

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Debbie Zufelt, Reports Manager

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Denver CO, 80203	Project Manager: Arthur Koepsell	12/31/13 12:03

Cation/Anion Balance

7.52

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Colorado Oil and Gas Conservation Commission- Den 1120 Lincoln Street Denver CO, 80203	Project: Gas MW + Ba, B, BTEX Project Name / Number: [none] Project Manager: Arthur Koepsell	Reported: 12/31/13 12:03
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Subcontracted -- **Cardinal Laboratories**

**Arens Water Well Complaint #200392550- FCG121613-L1  
707134**

**1312117-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Volatile Organic Compounds by EPA Method 8260B**

<i>Surrogate: 4-Bromofluorobenzene</i>			99.0 %	53.7-120		12/23/13	8260B		MS
<b>Benzene*</b>	<0.0005	0.0005	0.0002	mg/L	1	12/23/13	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			101 %	59.8-161		12/23/13	8260B		MS
<b>Ethylbenzene*</b>	<0.0005	0.0005	0.0002	mg/L	1	12/23/13	8260B		MS
<b>Toluene*</b>	<0.0005	0.0005	0.0002	mg/L	1	12/23/13	8260B		MS
<i>Surrogate: Toluene-d8</i>			96.6 %	75.2-115		12/23/13	8260B		MS
<b>Total BTEX</b>	<0.003	0.003	0.0009	mg/L	1	12/23/13	8260B		MS
<b>Total Xylenes*</b>	<0.002	0.002	0.0005	mg/L	1	12/23/13	8260B		MS
<b>Cation/Anion Balance</b>	<b>7.52</b>								

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Colorado Oil and Gas Conservation Commission- Den 1120 Lincoln Street Denver CO, 80203	Project: Gas MW + Ba, B, BTEX Project Name / Number: [none] Project Manager: Arthur Koepsell	Reported: 12/31/13 12:03
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**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B312150 - General Prep - Wet Chem**

**Blank (B312150-BLK1)** Prepared: 12/17/13 Analyzed: 12/18/13

Nitrate/Nitrite as N	ND	0.020	mg/L							
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**LCS (B312150-BS1)** Prepared: 12/17/13 Analyzed: 12/18/13

Nitrate/Nitrite as N	0.536	0.020	mg/L	0.500		107	90-110			
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**LCS Dup (B312150-BSD1)** Prepared: 12/17/13 Analyzed: 12/18/13

Nitrate/Nitrite as N	0.513	0.020	mg/L	0.500		103	90-110	4.39	20	
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**Batch B312166 - General Prep - Wet Chem**

**Duplicate (B312166-DUP2)** Source: 1312116-05 Prepared & Analyzed: 12/18/13

Conductivity	12900	10.0	uS/cm		12800			0.234	20	
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**Reference (B312166-SRM1)** Prepared & Analyzed: 12/18/13

Conductivity	477		uS/cm	452		106	90-110			
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**Batch B312170 - General Prep - Wet Chem**

**Duplicate (B312170-DUP1)** Source: 1312116-03 Prepared & Analyzed: 12/17/13

pH	7.55		pH Units		7.49			0.798	20	
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**Reference (B312170-SRM1)** Prepared & Analyzed: 12/17/13

pH	8.64		pH Units	8.93		96.8	90-110			
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**Batch B312176 - General Prep - Wet Chem**

**Blank (B312176-BLK1)** Prepared: 12/17/13 Analyzed: 12/18/13

TDS	ND	10.0	mg/L							
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**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B312176 - General Prep - Wet Chem**

<b>Duplicate (B312176-DUP1)</b>		<b>Source: 1312116-01</b>			Prepared: 12/17/13 Analyzed: 12/18/13					
TDS	5480	10.0	mg/L		5180			5.63	20	
<b>Reference (B312176-SRM1)</b>					Prepared: 12/17/13 Analyzed: 12/18/13					
TDS	1110	10.0	mg/L	1090		101	85-115			

**Batch B312181 - General Prep - Wet Chem**

<b>Blank (B312181-BLK1)</b>					Prepared & Analyzed: 12/18/13					
Sulfate	ND	10.0	mg/L							
<b>LCS (B312181-BS1)</b>					Prepared & Analyzed: 12/18/13					
Sulfate	46.0	10.0	mg/L	50.0		92.0	85-115			
<b>LCS Dup (B312181-BSD1)</b>					Prepared & Analyzed: 12/18/13					
Sulfate	50.0	10.0	mg/L	50.0		100	85-115	8.33	20	

**Batch B312211 - General Prep - Wet Chem**

<b>Blank (B312211-BLK1)</b>					Prepared & Analyzed: 12/23/13					
Fluoride	ND	0.200	mg/L							
<b>LCS (B312211-BS1)</b>					Prepared & Analyzed: 12/23/13					
Fluoride	1.10	0.200	mg/L	1.00		110	85-115			
<b>LCS Dup (B312211-BSD1)</b>					Prepared & Analyzed: 12/23/13					
Fluoride	1.02	0.200	mg/L	1.00		102	85-115	7.91	20	

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Colorado Oil and Gas Conservation Commission- Den 1120 Lincoln Street Denver CO, 80203	Project: Gas MW + Ba, B, BTEX Project Name / Number: [none] Project Manager: Arthur Koepsell	Reported: 12/31/13 12:03
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**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B312242 - General Prep - Wet Chem**

<b>Blank (B312242-BLK1)</b>										
Prepared & Analyzed: 12/27/13										
Alkalinity, Total	ND	10.0	mg/L							
<b>LCS (B312242-BS1)</b>										
Prepared & Analyzed: 12/27/13										
Alkalinity, Total	103	10.0	mg/L	100		103	85-115			
<b>LCS Dup (B312242-BSD1)</b>										
Prepared & Analyzed: 12/27/13										
Alkalinity, Total	102	10.0	mg/L	100		102	85-115	0.976	20	

**Batch B312245 - General Prep - Wet Chem**

<b>Blank (B312245-BLK1)</b>										
Prepared & Analyzed: 12/30/13										
Chloride	ND	10.0	mg/L							
<b>LCS (B312245-BS1)</b>										
Prepared & Analyzed: 12/30/13										
Chloride	106	10.0	mg/L	100		106	85-115			
<b>LCS Dup (B312245-BSD1)</b>										
Prepared & Analyzed: 12/30/13										
Chloride	104	10.0	mg/L	100		104	85-115	1.90	20	

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Colorado Oil and Gas Conservation Commission- Den	Project: Gas MW + Ba, B, BTEX	<b>Reported:</b> 12/31/13 12:03
1120 Lincoln Street	Project Name / Number: [none]	
Denver CO, 80203	Project Manager: Arthur Koepsell	

**Total Recoverable Metals by ICP (E200.7) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B312185 - Total Recoverable, Direct Analysis E200.7/E200.8**

**Blank (B312185-BLK1)**

Prepared & Analyzed: 12/19/13

Boron	ND	0.300	mg/L							
Calcium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							

**LCS (B312185-BS1)**

Prepared & Analyzed: 12/19/13

Boron	4.25	0.300	mg/L	5.00		85.0	85-115			
Calcium	4.52	1.00	mg/L	5.00		90.4	85-115			
Iron	4.60	0.050	mg/L	5.00		91.9	85-115			
Magnesium	23.5	1.00	mg/L	25.0		94.1	85-115			
Potassium	8.80	1.00	mg/L	10.0		88.0	85-115			
Sodium	7.96	1.00	mg/L	8.10		98.3	85-115			

**LCS Dup (B312185-BSD1)**

Prepared & Analyzed: 12/19/13

Boron	4.33	0.300	mg/L	5.00		86.6	85-115	1.89	20	
Calcium	4.60	1.00	mg/L	5.00		92.0	85-115	1.70	20	
Iron	4.68	0.050	mg/L	5.00		93.6	85-115	1.77	20	
Magnesium	23.9	1.00	mg/L	25.0		95.7	85-115	1.65	20	
Potassium	8.92	1.00	mg/L	10.0		89.2	85-115	1.28	20	
Sodium	7.99	1.00	mg/L	8.10		98.7	85-115	0.380	20	

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Colorado Oil and Gas Conservation Commission- Den 1120 Lincoln Street Denver CO, 80203	Project: Gas MW + Ba, B, BTEX Project Name / Number: [none] Project Manager: Arthur Koepsell	Reported: 12/31/13 12:03
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**Total Recoverable Metals by ICPMS (E200.8) - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B312189 - Total Recoverable, Direct Analysis E200.7/E200.8**

**Blank (B312189-BLK1)**

Prepared: 12/19/13 Analyzed: 12/20/13

Barium	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Selenium	ND	0.0010	mg/L							

**LCS (B312189-BS1)**

Prepared: 12/19/13 Analyzed: 12/20/13

Barium	0.0492	0.0005	mg/L	0.0500		98.4	85-115			
Manganese	0.0518	0.0005	mg/L	0.0500		104	85-115			
Selenium	0.257	0.0010	mg/L	0.250		103	85-115			

**LCS Dup (B312189-BSD1)**

Prepared: 12/19/13 Analyzed: 12/20/13

Barium	0.0498	0.0005	mg/L	0.0500		99.6	85-115	1.19	20	
Manganese	0.0524	0.0005	mg/L	0.0500		105	85-115	1.21	20	
Selenium	0.265	0.0010	mg/L	0.250		106	85-115	3.17	20	

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Colorado Oil and Gas Conservation Commission- Den	Project: Gas MW + Ba, B, BTEX	
1120 Lincoln Street	Project Name / Number: [none]	<b>Reported:</b>
Denver CO, 80203	Project Manager: Arthur Koepsell	12/31/13 12:03

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3122302 - Volatiles**

**Blank (3122302-BLK1)**

Prepared & Analyzed: 12/23/13

Surrogate: 4-Bromofluorobenzene	0.00968		mg/L	0.0100		96.8	53.7-120			
Benzene	ND	0.0005	mg/L							
Surrogate: Dibromofluoromethane	0.0102		mg/L	0.0100		102	59.8-161			
Ethylbenzene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
Surrogate: Toluene-d8	0.00978		mg/L	0.0100		97.8	75.2-115			
Total BTEX	ND	0.003	mg/L							
Total Xylenes	ND	0.002	mg/L							

**LCS (3122302-BS1)**

Prepared & Analyzed: 12/23/13

Surrogate: 4-Bromofluorobenzene	0.00948		mg/L	0.0100		94.8	53.7-120			
Benzene	0.020	0.0005	mg/L	0.0200		101	76.6-123			
Surrogate: Dibromofluoromethane	0.0102		mg/L	0.0100		102	59.8-161			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		104	81.4-123			
m+p - Xylene	0.042	0.001	mg/L				79.7-125			
o-Xylene	0.021	0.0005	mg/L	0.0200		106	74.3-125			
Toluene	0.021	0.0005	mg/L	0.0200		104	80.8-119			
Surrogate: Toluene-d8	0.00969		mg/L	0.0100		96.9	75.2-115			
Total Xylenes	0.063	0.002	mg/L	0.0600		106	76.9-125			

**LCS Dup (3122302-BSD1)**

Prepared & Analyzed: 12/23/13

Surrogate: 4-Bromofluorobenzene	0.0100		mg/L	0.0100		100	53.7-120			
Benzene	0.019	0.0005	mg/L	0.0200		97.0	76.6-123	3.99	16.1	
Surrogate: Dibromofluoromethane	0.00981		mg/L	0.0100		98.1	59.8-161			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		106	81.4-123	1.43	17.3	
m+p - Xylene	0.043	0.001	mg/L				79.7-125	0.968	14.8	
o-Xylene	0.021	0.0005	mg/L	0.0200		107	74.3-125	0.749	16.6	
Toluene	0.021	0.0005	mg/L	0.0200		105	80.8-119	1.05	16.5	
Surrogate: Toluene-d8	0.00984		mg/L	0.0100		98.4	75.2-115			
Total Xylenes	0.064	0.002	mg/L	0.0600		107	76.9-125	0.894	15.7	

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Colorado Oil and Gas Conservation Commission- Den  
1120 Lincoln Street  
Denver CO, 80203

Project: Gas MW + Ba, B, BTEX  
Project Name / Number: [none]  
Project Manager: Arthur Koepsell

Reported:  
12/31/13 12:03

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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# CHAIN OF CUSTODY RECORD

Client: COGCC

NOTES:

1) Ensure proper container packaging.

Contact: ARTHUR KOEPEL

2) Ship samples promptly following collection.

Address: 1120 LINCOLN STREET ST801 DENVER, CO 80203

3) Designate Sample Reject Disposition.

Phone Number: 303-894-2108 x 5148

PO# ARTHUR KOEPEL

Email: arthur.koepel@state.co.us

Project Name: ARENS WATERWELL Samplers Signature:

*[Signature]*

Table 1. - Matrix Type

- 1 = Surface Water, 2 = Ground Water
- 3 = Soil/Sediment, 4 = Prod. W., 5 = Oil
- 6 = Waste, 7 = Other (Specify) \_\_\_\_\_

FOR GAL USE ONLY

GAL JOB #

1312-117

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Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	Miscellaneous					Analyses Required	Comments
								HNO3	HCL	H2SO4	NAOH	Other (Specify)		
1. Arens	12/16/13	1105	AK	3	4		X							#18 on ice
2. WATER Well														
3. 121613-L1														
4. Complaint #														
5. 200398550														
6.														
7.														
8.														
9.														
10.														
Relinquished by: <i>[Signature]</i>			Date: 12/16/13	Time: 1212	Received by: <i>[Signature]</i>			Date: 12/16/13	Time: 1212					
Relinquished by:			Date:	Time:	Received by:			Date:	Time:					

#900#

\* Sample Reject: [ ] Return [ ] Dispose [ ] Store (30 Days)