



25-Mar-2015

Jordan Cario
HRL Compliance Solutions, Inc
2385 F 1/2 Road
Grand Junction, CO 81505

Re: **Black Hills 609 - DeBeque 3.17.15**

Work Order: **1503963**

Dear Jordan,

ALS Environmental received 2 samples on 18-Mar-2015 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 29.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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Client: HRL Compliance Solutions, Inc
Project: Black Hills 609 - DeBeque 3.17.15
Work Order: 1503963

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1503963-01	Red Rock Gathering Company, LLC Well	Groundwater		3/17/2015 10:45	3/18/2015 09:30	<input type="checkbox"/>
1503963-02	Trip Blank	Water		3/17/2015	3/18/2015 09:30	<input type="checkbox"/>

Client: HRL Compliance Solutions, Inc
Project: Black Hills 609 - DeBeque 3.17.15
Work Order: 1503963

Case Narrative

Batch 68819, Method ICP_6020_W, Sample 1503963-01E MS/MSD: The MS and MSD recovery was above the upper control limit for Sodium. The corresponding result in the parent sample may be biased high.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
µmhos/cm @ 25°C	Micromhos per Centimeter at 25 Degrees Celcius
cfu/1mL	Colony Forming Units per 1 Milliliter
mg/L	Milligrams per Liter
s.u.	Standard Units

ALS Group USA, Corp

Date: 25-Mar-15

Client: HRL Compliance Solutions, Inc
Project: Black Hills 609 - DeBeque 3.17.15
Sample ID: Red Rock Gathering Company, LLC Well
Collection Date: 3/17/2015 10:45 AM

Work Order: 1503963
Lab ID: 1503963-01
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
			SW8015C		Prep: SW3511 / 3/19/15	Analyst: IT
DRO (C10-C28)	ND		0.10	mg/L	1	3/19/2015 08:23 PM
Surr: 4-Terphenyl-d14	113		31-176	%REC	1	3/19/2015 08:23 PM
GASES IN WATER						
			RSK-175			Analyst: IT
Ethane	2,000		400	µg/L	200	3/24/2015 12:28 PM
Methane	22,000		200	µg/L	200	3/24/2015 12:28 PM
Propane	4.2		3.0	µg/L	1	3/24/2015 12:00 PM
GASOLINE RANGE ORGANICS BY GC-FID						
			SW8015D			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	3/19/2015 12:17 PM
Surr: Toluene-d8	115		70-130	%REC	1	3/19/2015 12:17 PM
METALS BY ICP-MS						
			SW6020A		Prep: SW3005A / 3/19/15	Analyst: RH
Barium	0.25		0.0050	mg/L	1	3/19/2015 04:12 PM
Boron	0.26		0.020	mg/L	1	3/19/2015 04:12 PM
Calcium	2.1		0.50	mg/L	1	3/19/2015 04:12 PM
Iron	0.21		0.080	mg/L	1	3/19/2015 04:12 PM
Magnesium	0.41		0.20	mg/L	1	3/19/2015 04:12 PM
Manganese	0.0097		0.0050	mg/L	1	3/19/2015 04:12 PM
Potassium	1.5		0.20	mg/L	1	3/19/2015 04:12 PM
Selenium	ND		0.0050	mg/L	1	3/19/2015 04:12 PM
Sodium	470		2.0	mg/L	10	3/20/2015 01:27 PM
Strontium	0.12		0.0050	mg/L	1	3/19/2015 04:12 PM
VOLATILE ORGANIC COMPOUNDS						
			SW8260			Analyst: BG
Benzene	ND		1.0	µg/L	1	3/19/2015 10:23 AM
Ethylbenzene	ND		1.0	µg/L	1	3/19/2015 10:23 AM
m,p-Xylene	ND		2.0	µg/L	1	3/19/2015 10:23 AM
o-Xylene	ND		1.0	µg/L	1	3/19/2015 10:23 AM
Toluene	ND		1.0	µg/L	1	3/19/2015 10:23 AM
Xylenes, Total	ND		3.0	µg/L	1	3/19/2015 10:23 AM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	3/19/2015 10:23 AM
Surr: 4-Bromofluorobenzene	97.8		80-110	%REC	1	3/19/2015 10:23 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	3/19/2015 10:23 AM
Surr: Toluene-d8	97.6		85-110	%REC	1	3/19/2015 10:23 AM
ALKALINITY						
			A2320 B-97			Analyst: ED
Alkalinity, Bicarbonate (as CaCO3)	860	x	10	mg/L	1	3/19/2015 12:10 PM
Alkalinity, Carbonate (as CaCO3)	48		10	mg/L	1	3/19/2015 12:10 PM
BIOLOGICAL ACTIVITY REACTION TEST (BART)						
			HACH METHOD			Analyst: JB
Iron Related Bacteria	9,000			cfu/1mL	1	3/18/2015 01:15 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 25-Mar-15

Client: HRL Compliance Solutions, Inc
Project: Black Hills 609 - DeBeque 3.17.15
Sample ID: Red Rock Gathering Company, LLC Well
Collection Date: 3/17/2015 10:45 AM

Work Order: 1503963
Lab ID: 1503963-01
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Slime Forming Bacteria	13,000			cfu/1mL	1	3/18/2015 01:15 PM
Sulfate Reducing Bacteria	21,000			cfu/1mL	1	3/18/2015 01:15 PM
FLUORIDE			A4500-F C			Analyst: ED
Fluoride	4.4	x	0.10	mg/L	1	3/19/2015 02:30 PM
ANIONS BY ION CHROMATOGRAPHY			SW9056A			Analyst: EE
Bromide	0.22		0.10	mg/L	1	3/19/2015 04:34 PM
Chloride	190		20	mg/L	20	3/19/2015 02:13 PM
Sulfate	1.0		1.0	mg/L	1	3/19/2015 04:34 PM
NITROGEN, NITRITE			A4500-NO2 B			Analyst: ED
Nitrogen, Nitrite	ND		0.020	mg/L	1	3/18/2015 06:45 PM
NITROGEN, NITRATE			E353.2 R2.0			Analyst: JJG
Nitrogen, Nitrate	ND		0.020	mg/L	1	3/18/2015 12:51 PM
PHOSPHORUS, TOTAL			E365.1 R2.0			Analyst: JJG
Phosphorus, Total	0.14		0.050	mg/L	1	3/20/2015 11:38 AM
PH (LABORATORY)			SW9040C			Analyst: ED
pH (laboratory)	8.40			s.u.	1	3/18/2015 04:30 PM
SPECIFIC CONDUCTANCE			A2510 B-97			Analyst: ED
Specific Conductance	2,200		5.0	µmhos/cm @ 2	1	3/19/2015 12:10 PM
TOTAL DISSOLVED SOLIDS			A2540 C-97		Prep: Water Ext. / 3/24/15	Analyst: YM
Total Dissolved Solids	1,300		10	mg/L	1	3/24/2015 01:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 25-Mar-15

Client: HRL Compliance Solutions, Inc
Project: Black Hills 609 - DeBeque 3.17.15
Sample ID: Trip Blank
Collection Date: 3/17/2015

Work Order: 1503963
Lab ID: 1503963-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GASOLINE RANGE ORGANICS BY GC-FID			SW8015D			Analyst: IT
GRO (C6-C10)	ND		200	µg/L	1	3/19/2015 11:28 AM
Surr: Toluene-d8	112		70-130	%REC	1	3/19/2015 11:28 AM
VOLATILE ORGANIC COMPOUNDS			SW8260			Analyst: AK
Benzene	ND		1.0	µg/L	1	3/19/2015 05:43 AM
Ethylbenzene	ND		1.0	µg/L	1	3/19/2015 05:43 AM
m,p-Xylene	ND		2.0	µg/L	1	3/19/2015 05:43 AM
o-Xylene	ND		1.0	µg/L	1	3/19/2015 05:43 AM
Toluene	ND		1.0	µg/L	1	3/19/2015 05:43 AM
Xylenes, Total	ND		3.0	µg/L	1	3/19/2015 05:43 AM
Surr: 1,2-Dichloroethane-d4	95.3		75-120	%REC	1	3/19/2015 05:43 AM
Surr: 4-Bromofluorobenzene	92.5		80-110	%REC	1	3/19/2015 05:43 AM
Surr: Dibromofluoromethane	96.8		85-115	%REC	1	3/19/2015 05:43 AM
Surr: Toluene-d8	96.7		85-110	%REC	1	3/19/2015 05:43 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 25-Mar-15

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **68804** Instrument ID **GC8** Method: **SW8015C**

MBLK		Sample ID: DBLKW1-68804-68804				Units: mg/L		Analysis Date: 3/19/2015 05:54 PM		
Client ID:		Run ID: GC8_150319B				SeqNo: 3187045		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	ND	0.10								
<i>Surr: 4-Terphenyl-d14</i>	0.1227	0	0.1143	0	107	31-176	0			

LCS		Sample ID: DLCSW1-68804-68804				Units: mg/L		Analysis Date: 3/19/2015 06:24 PM		
Client ID:		Run ID: GC8_150319B				SeqNo: 3187047		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	6.665	0.10	11.43	0	58.3	35-95	0			
<i>Surr: 4-Terphenyl-d14</i>	0.1309	0	0.1143	0	114	31-176	0			

MS		Sample ID: 1503837-02C MS				Units: mg/L		Analysis Date: 3/19/2015 06:54 PM		
Client ID:		Run ID: GC8_150319B				SeqNo: 3187048		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	33.1	0.35	40	18.14	37.4	29-96	0			
<i>Surr: 4-Terphenyl-d14</i>	0.4166	0	0.4	0	104	31-176	0			

MSD		Sample ID: 1503837-02C MSD				Units: mg/L		Analysis Date: 3/19/2015 07:24 PM		
Client ID:		Run ID: GC8_150319B				SeqNo: 3187050		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	32.74	0.35	40	18.14	36.5	29-96	33.1	1.1	30	
<i>Surr: 4-Terphenyl-d14</i>	0.2745	0	0.4	0	68.6	31-176	0.4166	41.1	30	R

The following samples were analyzed in this batch: 1503963-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159560** Instrument ID **GC9** Method: **SW8015D**

MBLK	Sample ID: GBLKW1-150319-R159560					Units: µg/L		Analysis Date: 3/19/2015 10:13 AM		
Client ID:	Run ID: GC9_150319A				SeqNo: 3187083		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	ND	200								
Surr: Toluene-d8	111.3	0	100	0	111	70-130	0			

LCS	Sample ID: GLCSW1-150319-R159560					Units: µg/L		Analysis Date: 3/19/2015 09:48 AM		
Client ID:	Run ID: GC9_150319A				SeqNo: 3187082		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	9852	200	10000	0	98.5	70-130	0			
Surr: Toluene-d8	101.6	0	100	0	102	70-130	0			

MS	Sample ID: 15031020-01B MS					Units: µg/L		Analysis Date: 3/19/2015 05:16 PM		
Client ID:	Run ID: GC9_150319A				SeqNo: 3187144		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	10410	200	10000	0	104	70-130	0			
Surr: Toluene-d8	106	0	100	0	106	70-130	0			

MSD	Sample ID: 15031020-01B MSD					Units: µg/L		Analysis Date: 3/19/2015 05:41 PM		
Client ID:	Run ID: GC9_150319A				SeqNo: 3187145		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	9991	200	10000	0	99.9	70-130	10410	4.08	30	
Surr: Toluene-d8	104	0	100	0	104	70-130	106	1.82	30	

The following samples were analyzed in this batch:

1503963-01A	1503963-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159801** Instrument ID **GC10** Method: **RSK-175**

MBLK		Sample ID: RBLK1-150324-R159801				Units: µg/L		Analysis Date: 3/24/2015 11:58 AM		
Client ID:		Run ID: GC10_150324A				SeqNo: 3192730		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	ND	2.0								
Methane	ND	1.0								
Propane	ND	3.0								

LCS		Sample ID: RLCS1-150324-R159801				Units: µg/L		Analysis Date: 3/24/2015 11:56 AM		
Client ID:		Run ID: GC10_150324A				SeqNo: 3192729		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	35.06	2.0	36.1	0	97.1	75-125	0			
Methane	18.7	1.0	19.2	0	97.4	75-125	0			
Propane	52.44	3.0	52.8	0	99.3	75-125	0			

MS		Sample ID: 15031285-01F MS				Units: µg/L		Analysis Date: 3/24/2015 12:36 PM		
Client ID:		Run ID: GC10_150324A				SeqNo: 3192771		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	41.56	2.0	36.1	10.76	85.3	70-130	0			
Methane	178.8	1.0	19.2	150.6	147	70-130	0			SO
Propane	47.99	3.0	52.8	2.22	86.7	70-130	0			

MSD		Sample ID: 15031285-01F MSD				Units: µg/L		Analysis Date: 3/24/2015 12:39 PM		
Client ID:		Run ID: GC10_150324A				SeqNo: 3192774		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	41.02	2.0	36.1	10.76	83.8	70-130	41.56	1.31	30	
Methane	175.2	1.0	19.2	150.6	128	70-130	178.8	2.02	30	O
Propane	47.12	3.0	52.8	2.22	85	70-130	47.99	1.83	30	

The following samples were analyzed in this batch:

1503963-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **68819** Instrument ID **ICPMS2** Method: **SW6020A**

MBLK		Sample ID: MBLK-68819-68819				Units: mg/L		Analysis Date: 3/19/2015 04:01 PM		
Client ID:		Run ID: ICPMS2_150319A				SeqNo: 3186744		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	ND	0.0050								
Boron	ND	0.020								
Calcium	ND	0.50								
Iron	ND	0.080								
Magnesium	ND	0.20								
Manganese	ND	0.0050								
Potassium	ND	0.20								
Selenium	ND	0.0050								
Sodium	ND	0.20								
Strontium	ND	0.0050								

LCS		Sample ID: LCS-68819-68819				Units: mg/L		Analysis Date: 3/19/2015 04:06 PM		
Client ID:		Run ID: ICPMS2_150319A				SeqNo: 3186745		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.09151	0.0050	0.1	0	91.5	80-120	0			
Boron	0.4766	0.020	0.5	0	95.3	80-120	0			
Calcium	9.5	0.50	10	0	95	80-120	0			
Iron	9.435	0.080	10	0	94.4	80-120	0			
Magnesium	9.593	0.20	10	0	95.9	80-120	0			
Manganese	0.09519	0.0050	0.1	0	95.2	80-120	0			
Potassium	9.415	0.20	10	0	94.2	80-120	0			
Selenium	0.09439	0.0050	0.1	0	94.4	80-120	0			
Sodium	9.382	0.20	10	0	93.8	80-120	0			
Strontium	0.09917	0.0050	0.1	0	99.2	80-120	0			

MS		Sample ID: 1503963-01EMS				Units: mg/L		Analysis Date: 3/19/2015 04:17 PM		
Client ID: Red Rock Gathering Company, LLC Well		Run ID: ICPMS2_150319A				SeqNo: 3186747		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.3649	0.0050	0.1	0.2546	110	75-125	0			
Boron	0.7372	0.020	0.5	0.2557	96.3	75-125	0			
Calcium	12.02	0.50	10	2.106	99.1	75-125	0			
Iron	9.483	0.080	10	0.2056	92.8	75-125	0			
Magnesium	9.976	0.20	10	0.4108	95.7	75-125	0			
Manganese	0.106	0.0050	0.1	0.009695	96.3	75-125	0			
Potassium	11.07	0.20	10	1.47	96	75-125	0			
Selenium	0.09308	0.0050	0.1	0.0002528	92.8	75-125	0			
Strontium	0.2213	0.0050	0.1	0.1238	97.5	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **68819** Instrument ID **ICPMS2** Method: **SW6020A**

MS		Sample ID: 1503963-01EMS				Units: mg/L		Analysis Date: 3/20/2015 01:32 PM		
Client ID: Red Rock Gathering Company, LLC Well		Run ID: ICPMS2_150320A				SeqNo: 3187809		Prep Date: 3/19/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	487.8	2.0	10	466.2	216	75-125	0			SO

MSD		Sample ID: 1503963-01EMSD				Units: mg/L		Analysis Date: 3/19/2015 04:22 PM		
Client ID: Red Rock Gathering Company, LLC Well		Run ID: ICPMS2_150319A				SeqNo: 3186748		Prep Date: 3/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.3665	0.0050	0.1	0.2546	112	75-125	0.3649	0.438	20	
Boron	0.7277	0.020	0.5	0.2557	94.4	75-125	0.7372	1.3	20	
Calcium	12.02	0.50	10	2.106	99.1	75-125	12.02	0	20	
Iron	9.543	0.080	10	0.2056	93.4	75-125	9.483	0.631	20	
Magnesium	9.883	0.20	10	0.4108	94.7	75-125	9.976	0.937	20	
Manganese	0.1068	0.0050	0.1	0.009695	97.1	75-125	0.106	0.752	20	
Potassium	11.06	0.20	10	1.47	95.9	75-125	11.07	0.0904	20	
Selenium	0.09223	0.0050	0.1	0.0002528	92	75-125	0.09308	0.917	20	
Strontium	0.2232	0.0050	0.1	0.1238	99.4	75-125	0.2213	0.855	20	

MSD		Sample ID: 1503963-01EMSD				Units: mg/L		Analysis Date: 3/20/2015 01:38 PM		
Client ID: Red Rock Gathering Company, LLC Well		Run ID: ICPMS2_150320A				SeqNo: 3187811		Prep Date: 3/19/2015		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	491	2.0	10	466.2	248	75-125	487.8	0.654	20	SO

The following samples were analyzed in this batch:

1503963-01E

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159454** Instrument ID **VMS7** Method: **SW8260**

MBLK				Sample ID: VBLKW2-150318-R159454				Units: µg/L		Analysis Date: 3/19/2015 04:26 AM	
Client ID:			Run ID: VMS7_150318B			SeqNo: 3185700		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	ND	1.0									
Ethylbenzene	ND	1.0									
m,p-Xylene	ND	2.0									
o-Xylene	ND	1.0									
Toluene	ND	1.0									
Xylenes, Total	ND	3.0									
Surr: 1,2-Dichloroethane-d4	19.44	0	20	0	97.2	75-120	0				
Surr: 4-Bromofluorobenzene	18.76	0	20	0	93.8	80-110	0				
Surr: Dibromofluoromethane	19.9	0	20	0	99.5	85-115	0				
Surr: Toluene-d8	19.47	0	20	0	97.4	85-110	0				

LCS				Sample ID: VLCSW2-150318-R159454			Units: µg/L		Analysis Date: 3/19/2015 03:12 AM		
Client ID:			Run ID: VMS7_150318B			SeqNo: 3185699		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	19.56	1.0	20	0	97.8	85-125	0				
Ethylbenzene	19.59	1.0	20	0	98	85-125	0				
m,p-Xylene	40.07	2.0	40	0	100	75-130	0				
o-Xylene	19.6	1.0	20	0	98	80-125	0				
Toluene	19.96	1.0	20	0	99.8	85-125	0				
Xylenes, Total	59.67	3.0	60	0	99.4	80-126	0				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.05</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.2</i>	<i>75-120</i>	<i>0</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.87</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.4</i>	<i>80-110</i>	<i>0</i>				
<i>Surr: Dibromofluoromethane</i>	<i>20.07</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>				
<i>Surr: Toluene-d8</i>	<i>19.75</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.8</i>	<i>85-110</i>	<i>0</i>				

MS				Sample ID: 15031009-07A MS			Units: µg/L		Analysis Date: 3/19/2015 12:25 PM		
Client ID:			Run ID: VMS7_150318B			SeqNo: 3185714		Prep Date:		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	694.3	5.0	100	603	91.3	85-125		0		EO	
Ethylbenzene	143.9	5.0	100	57.7	86.2	85-125		0			
m,p-Xylene	265.4	10	200	105.7	79.9	75-130		0			
o-Xylene	83.15	5.0	100	0	83.2	80-125		0			
Toluene	93.75	5.0	100	5.6	88.2	85-125		0			
Xylenes, Total	348.6	15	300	105.7	81	80-126		0			
Surr: 1,2-Dichloroethane-d4	97.45	0	100	0	97.4	75-120		0			
Surr: 4-Bromofluorobenzene	96.4	0	100	0	96.4	80-110		0			
Surr: Dibromofluoromethane	99.3	0	100	0	99.3	85-115		0			
Surr: Toluene-d8	98	0	100	0	98	85-110		0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159454** Instrument ID **VMS7** Method: **SW8260**

MSD		Sample ID: 15031009-07A MSD				Units: µg/L		Analysis Date: 3/19/2015 12:50 PM		
Client ID:		Run ID: VMS7_150318B				SeqNo: 3185715		Prep Date:		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	717.8	5.0	100	603	115	85-125	694.3	3.33	30	EO
Ethylbenzene	150.1	5.0	100	57.7	92.4	85-125	143.9	4.22	30	
m,p-Xylene	280.8	10	200	105.7	87.6	75-130	265.4	5.62	30	
o-Xylene	87.95	5.0	100	0	88	80-125	83.15	5.61	30	
Toluene	98.9	5.0	100	5.6	93.3	85-125	93.75	5.35	30	
Xylenes, Total	368.8	15	300	105.7	87.7	80-126	348.6	5.62	30	
Surr: 1,2-Dichloroethane-d4	95.2	0	100	0	95.2	75-120	97.45	2.34	30	
Surr: 4-Bromofluorobenzene	95.5	0	100	0	95.5	80-110	96.4	0.938	30	
Surr: Dibromofluoromethane	99.2	0	100	0	99.2	85-115	99.3	0.101	30	
Surr: Toluene-d8	96.85	0	100	0	96.8	85-110	98	1.18	30	

The following samples were analyzed in this batch: 1503963-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159456A** Instrument ID **VMS5** Method: **SW8260**

MBLK				Sample ID: VBLKW3-150318-R159456A				Units: µg/L			Analysis Date: 3/19/2015 05:11 AM		
Client ID:			Run ID: VMS5_150318B			SeqNo: 3185766			Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	ND	1.0											
Ethylbenzene	ND	1.0											
m,p-Xylene	ND	2.0											
o-Xylene	ND	1.0											
Toluene	ND	1.0											
Xylenes, Total	ND	3.0											
Surr: 1,2-Dichloroethane-d4	20.64	0	20	0	103	75-120		0					
Surr: 4-Bromofluorobenzene	19.54	0	20	0	97.7	80-110		0					
Surr: Dibromofluoromethane	20.27	0	20	0	101	85-115		0					
Surr: Toluene-d8	19.88	0	20	0	99.4	85-110		0					

LCS				Sample ID: VLCSW2-150318-R159456A				Units: µg/L		Analysis Date: 3/19/2015 04:20 AM	
Client ID:			Run ID: VMS5_150318B			SeqNo: 3185765		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	19.74	1.0	20	0	98.7	85-125	0				
Ethylbenzene	20.68	1.0	20	0	103	85-125	0				
m,p-Xylene	41.62	2.0	40	0	104	75-130	0				
o-Xylene	20.5	1.0	20	0	102	80-125	0				
Toluene	19.91	1.0	20	0	99.6	85-125	0				
Xylenes, Total	62.12	3.0	60	0	104	80-126	0				
Surr: 1,2-Dichloroethane-d4	19.78	0	20	0	98.9	75-120	0				
Surr: 4-Bromofluorobenzene	20.48	0	20	0	102	80-110	0				
Surr: Dibromofluoromethane	20.31	0	20	0	102	85-115	0				
Surr: Toluene-d8	20.19	0	20	0	101	85-110	0				

MS				Sample ID: 1503956-02A MS			Units: µg/L		Analysis Date: 3/19/2015 02:17 PM		
Client ID:			Run ID: VMS5_150318B			SeqNo: 3185778		Prep Date:		DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	1806	100	2000	0	90.3	85-125	0				
Ethylbenzene	1861	100	2000	0	93	85-125	0				
m,p-Xylene	3712	200	4000	0	92.8	75-130	0				
o-Xylene	1816	100	2000	0	90.8	80-125	0				
Toluene	1788	100	2000	0	89.4	85-125	0				
Xylenes, Total	5528	300	6000	0	92.1	80-126	0				
Surr: 1,2-Dichloroethane-d4	2004	0	2000	0	100	75-120	0				
Surr: 4-Bromofluorobenzene	1990	0	2000	0	99.5	80-110	0				
Surr: Dibromofluoromethane	1996	0	2000	0	99.8	85-115	0				
Surr: Toluene-d8	1987	0	2000	0	99.4	85-110	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159456A** Instrument ID **VMS5** Method: **SW8260**

MSD				Sample ID: 1503956-02A MSD			Units: µg/L		Analysis Date: 3/19/2015 02:42 PM	
Client ID:				Run ID: VMS5_150318B			SeqNo: 3185779		Prep Date:	
									DF: 100	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1769	100	2000	0	88.4	85-125	1806	2.07	30	
Ethylbenzene	1888	100	2000	0	94.4	85-125	1861	1.44	30	
m,p-Xylene	3777	200	4000	0	94.4	75-130	3712	1.74	30	
o-Xylene	1860	100	2000	0	93	80-125	1816	2.39	30	
Toluene	1764	100	2000	0	88.2	85-125	1788	1.35	30	
Xylenes, Total	5637	300	6000	0	94	80-126	5528	1.95	30	
Surr: 1,2-Dichloroethane-d4	1976	0	2000	0	98.8	75-120	2004	1.41	30	
Surr: 4-Bromofluorobenzene	1998	0	2000	0	99.9	80-110	1990	0.401	30	
Surr: Dibromofluoromethane	2032	0	2000	0	102	85-115	1996	1.79	30	
Surr: Toluene-d8	1969	0	2000	0	98.4	85-110	1987	0.91	30	

The following samples were analyzed in this batch: 1503963-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **68974** Instrument ID **TDS** Method: **A2540 C-97**

MBLK		Sample ID: MBLK-68974-68974					Units: mg/L		Analysis Date: 3/24/2015 01:50 PM		
Client ID:			Run ID: TDS_150324B			SeqNo: 3192640		Prep Date: 3/24/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Total Dissolved Solids ND 10

LCS		Sample ID: LCS-68974-68974				Units: mg/L		Analysis Date: 3/24/2015 01:50 PM		
Client ID:		Run ID: TDS_150324B				SeqNo: 3192639		Prep Date: 3/24/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 481 10 495 0 97.2 80-120 0

DUP				Sample ID: 1503996-08C DUP				Units: mg/L			Analysis Date: 3/24/2015 01:50 PM			
Client ID:				Run ID: TDS_150324B				SeqNo: 3192611			Prep Date: 3/24/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Total Dissolved Solids 858 20 0 0 0 0-0 864 0.697 20

DUP		Sample ID: 1503996-09C DUP				Units: mg/L		Analysis Date: 3/24/2015 01:50 PM		
Client ID:		Run ID: TDS_150324B			SeqNo: 3192613		Prep Date: 3/24/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 686 20 0 0 0 0-0 692 0.871 20

The following samples were analyzed in this batch:

1503963-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159423b** Instrument ID **WETCHEM** Method: **SW9040C**

LCS				Sample ID: WLCSW1-150318-R159423b				Units: s.u.			Analysis Date: 3/18/2015 04:30 PM			
Client ID:				Run ID: WETCHEM_1503180				SeqNo: 3183942			Prep Date:		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH (laboratory)				4.06	0	4	0	102	90-110	0				

The following samples were analyzed in this batch:

1503963-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159431** Instrument ID **WETCHEM** Method: **A4500-NO2 B**

MBLK		Sample ID: WBLKW1-150318-R159431				Units: mg/L		Analysis Date: 3/18/2015 06:45 PM		
Client ID:		Run ID: WETCHEM_150318T				SeqNo: 3183950		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite ND 0.020

LCS		Sample ID: WLCSW1-150318-R159431				Units: mg/L		Analysis Date: 3/18/2015 06:45 PM		
Client ID:		Run ID: WETCHEM_150318T				SeqNo: 3183951		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.1945 0.020 0.2 0 97.2 80-120 0

MS		Sample ID: 1503948-01C MS				Units: mg/L		Analysis Date: 3/18/2015 06:45 PM		
Client ID:		Run ID: WETCHEM_150318T				SeqNo: 3183958		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.1962 0.020 0.2 0.005 95.6 75-125 0

MSD		Sample ID: 1503948-01C MSD				Units: mg/L		Analysis Date: 3/18/2015 06:45 PM		
Client ID:		Run ID: WETCHEM_150318T				SeqNo: 3183959		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrite 0.1931 0.020 0.2 0.005 94 75-125 0.1962 1.59 20

The following samples were analyzed in this batch:

1503963-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159458** Instrument ID **LACHAT2** Method: **E353.2 R2.0**

MBLK		Sample ID: MBLK-R159458				Units: mg/L		Analysis Date: 3/18/2015 12:51 PM		
Client ID:		Run ID: LACHAT2_150318A				SeqNo: 3184662		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate ND 0.020

LCS		Sample ID: LCS-R159458				Units: mg/L		Analysis Date: 3/18/2015 12:51 PM		
Client ID:		Run ID: LACHAT2_150318A				SeqNo: 3184663		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 5.034 0.020 5 0 101 90-110 0

MS		Sample ID: 1503830-01B MS				Units: mg/L		Analysis Date: 3/18/2015 12:51 PM		
Client ID:		Run ID: LACHAT2_150318A				SeqNo: 3184667		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 2.608 0.020 5 0 52.2 90-110 0 S

MSD		Sample ID: 1503830-01B MSD				Units: mg/L		Analysis Date: 3/18/2015 12:51 PM		
Client ID:		Run ID: LACHAT2_150318A				SeqNo: 3184668		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Nitrogen, Nitrate 2.118 0.020 5 0 42.4 90-110 2.608 20.7 20 SR

The following samples were analyzed in this batch:

1503963-01D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159479** Instrument ID **Titrator 1** Method: **A2510 B-97**

MBLK		Sample ID: WBLKW1-150319-R159479				Units: µmhos/cm @ 25°		Analysis Date: 3/19/2015 12:10 PM		
Client ID:		Run ID: TITRATOR 1_150319A				SeqNo: 3185089		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance ND 5.0

DUP		Sample ID: 15031020-01A DUP				Units: µmhos/cm @ 25°		Analysis Date: 3/19/2015 12:10 PM		
Client ID:		Run ID: TITRATOR 1_150319A				SeqNo: 3185092		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 814.6 5.0 0 0 0 0-0 818.6 0.489 5

LCS1		Sample ID: WLCS1W1-150319-R159479				Units: µmhos/cm @ 25°		Analysis Date: 3/19/2015 12:10 PM		
Client ID:		Run ID: TITRATOR 1_150319A				SeqNo: 3185090		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 14.66 5.0 14.9 0 98.4 85-107 0

LCS2		Sample ID: WLCS2W1-150319-R159479				Units: µmhos/cm @ 25°		Analysis Date: 3/19/2015 12:10 PM		
Client ID:		Run ID: TITRATOR 1_150319A				SeqNo: 3185094		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 585.2 5.0 592 0 98.8 85-107 0

The following samples were analyzed in this batch:

1503963-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159480a** Instrument ID **Titration 1** Method: **A2320 B-97**

MBLK		Sample ID: WBLKW1-150319-R159480a				Units: mg/L		Analysis Date: 3/19/2015 12:10 PM		
Client ID:		Run ID: TITRATOR 1_150319B				SeqNo: 3185110		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (as CaCO ₃)	3.97	10								Jx
Alkalinity, Carbonate (as CaCO ₃)	ND	10								

LCS		Sample ID: WLCSW1-150319-R159480a				Units: mg/L		Analysis Date: 3/19/2015 12:10 PM		
Client ID:		Run ID: TITRATOR 1_150319B				SeqNo: 3185111		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (as CaCO ₃)	873.9	10	925		0	94.5	70-130	0		

DUP		Sample ID: 15031020-01A DUP				Units: mg/L		Analysis Date: 3/19/2015 12:10 PM		
Client ID:		Run ID: TITRATOR 1_150319B				SeqNo: 3185113		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (as CaCO ₃)	128.9	10	0	0	0		127.4	1.22	20	x
Alkalinity, Carbonate (as CaCO ₃)	6.6	10	0	0	0		5.74	0	20	J

The following samples were analyzed in this batch:

1503963-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159494** Instrument ID **Titration 1** Method: **A4500-F C**

MBLK		Sample ID: WBLKW1-150319-R159494				Units: mg/L		Analysis Date: 3/19/2015 02:30 PM		
Client ID:		Run ID: TITRATOR 1_150319C				SeqNo: 3185597		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	0.02	0.10								Jx

LCS		Sample ID: WLCSW1-150319-R159494					Units: mg/L		Analysis Date: 3/19/2015 02:30 PM		
Client ID:		Run ID: TITRATOR 1_150319C			SeqNo: 3185598		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	5.023	0.10	5	0	100	80-120	0			x	

MS		Sample ID: 1503974-02FMS					Units: mg/L		Analysis Date: 3/19/2015 02:30 PM		
Client ID:		Run ID: TITRATOR 1_150319C			SeqNo: 3185605		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Fluoride	6.499	0.10	5	1.264	105	75-125	0			x	

MSD				Sample ID: 1503974-02FMSD				Units: mg/L			Analysis Date: 3/19/2015 02:30 PM			
Client ID:				Run ID: TITRATOR 1_150319C				SeqNo: 3185606			Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Fluoride		6.439	0.10	5	1.264	104	75-125	6.499	0.928	20	x			

The following samples were analyzed in this batch:

1503963-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159561** Instrument ID **IC3** Method: **SW9056A**

MBLK		Sample ID: CCB/MBLK-R159561				Units: mg/L		Analysis Date: 3/19/2015 10:28 AM		
Client ID:		Run ID: IC3_150319A				SeqNo: 3187091		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	ND	0.20								
Chloride	ND	1.0								
Sulfate	ND	1.0								

LCS		Sample ID: LCS-R159561				Units: mg/L		Analysis Date: 3/19/2015 10:48 AM		
Client ID:		Run ID: IC3_150319A				SeqNo: 3187094		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.139	0.20	2	0	107	88-113	0			
Chloride	9.417	1.0	10	0	94.2	88-110	0			
Sulfate	9.85	1.0	10	0	98.5	85-110	0			

MS		Sample ID: 1503604-11A MS				Units: mg/L		Analysis Date: 3/19/2015 12:11 PM		
Client ID:		Run ID: IC3_150319A				SeqNo: 3187099		Prep Date:		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.738	0.40	4	0	118	75-125	0			
Chloride	21.63	2.0	20	3.05	92.9	75-125	0			
Sulfate	31.52	2.0	20	10.51	105	75-125	0			

MSD		Sample ID: 1503604-11A MSD				Units: mg/L		Analysis Date: 3/19/2015 12:31 PM		
Client ID:		Run ID: IC3_150319A				SeqNo: 3187100		Prep Date:		DF: 2
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.519	0.40	4	0	113	75-125	4.738	4.74	20	
Chloride	21.7	2.0	20	3.05	93.3	75-125	21.63	0.345	20	
Sulfate	31.22	2.0	20	10.51	104	75-125	31.52	0.946	20	

The following samples were analyzed in this batch:

1503963-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159591** Instrument ID **LACHAT2** Method: **E365.1 R2.0**

MBLK		Sample ID: MBLK-R159591				Units: mg/L		Analysis Date: 3/20/2015 11:38 AM		
Client ID:		Run ID: LACHAT2_150320A				SeqNo: 3188006		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Phosphorus, Total ND 0.050

LCS		Sample ID: LCS-R159591				Units: mg/L		Analysis Date: 3/20/2015 11:38 AM		
Client ID:		Run ID: LACHAT2_150320A				SeqNo: 3188007		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Phosphorus, Total 0.9066 0.050 1 0 90.7 90-110 0

MS		Sample ID: 1503007-22B MS				Units: mg/L		Analysis Date: 3/20/2015 11:38 AM		
Client ID:		Run ID: LACHAT2_150320A				SeqNo: 3188010		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Phosphorus, Total 1.027 0.050 1 0.04567 98.1 90-110 0

MS		Sample ID: 1503963-01D MS				Units: mg/L		Analysis Date: 3/20/2015 11:38 AM		
Client ID: Red Rock Gathering Company, LLC Well		Run ID: LACHAT2_150320A				SeqNo: 3188029		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Phosphorus, Total 1.131 0.050 1 0.135 99.6 90-110 0

MSD		Sample ID: 1503007-22B MSD				Units: mg/L		Analysis Date: 3/20/2015 11:38 AM		
Client ID:		Run ID: LACHAT2_150320A				SeqNo: 3188011		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Phosphorus, Total 1.052 0.050 1 0.04567 101 90-110 1.027 2.41 20

MSD		Sample ID: 1503963-01D MSD				Units: mg/L		Analysis Date: 3/20/2015 11:38 AM		
Client ID: Red Rock Gathering Company, LLC Well		Run ID: LACHAT2_150320A				SeqNo: 3188030		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Phosphorus, Total 1.145 0.050 1 0.135 101 90-110 1.131 1.23 20

The following samples were analyzed in this batch: 1503963-01D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: HRL Compliance Solutions, Inc
Work Order: 1503963
Project: Black Hills 609 - DeBeque 3.17.15

QC BATCH REPORT

Batch ID: **R159849** Instrument ID **WETCHEM** Method: **HACH METHOD**

MBLK		Sample ID: WBLKW1-150318-R159849				Units: cfu/1mL		Analysis Date: 3/18/2015 01:15 PM		
Client ID:		Run ID: WETCHEM_150318[SeqNo: 3193959		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron Related Bacteria	ND	0								
Slime Forming Bacteria	ND	0								
Sulfate Reducing Bacteria	ND	0								

The following samples were analyzed in this batch:

1503963-01F

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 20278

WORKORDER #

1503963

PAGE

1 of 1

DISPOSAL

By Lab or Return to Client

PROJECT NAME Black Hills 608 - DeBeque Water Station

SAMPLER Jordan Carlo

DATE 3/17/2015

SITE ID Red Rock Gathering Company, LLC

TURNAROUND Standard

PROJECT No.

EDD FORMAT

PURCHASE ORDER

COMPANY NAME HCSI

BILL TO COMPANY HCSI

SEND REPORT TO HCSI- Jordan Carlo

INVOICE ATTN TO Melissa Detross

ADDRESS 2385 F 1/2 Road

ADDRESS 2385 F 1/2 Road

CITY / STATE / ZIP Grand Junction, CO, 81505

CITY / STATE / ZIP Grand Junction, CO, 81505

PHONE 724-255-7939

PHONE 970-243-3271

FAX 970-243-3280

FAX 970-243-3280

E-MAIL icario@hrlcomp.com

E-MAIL mdelrose@hrlcomp.com

pH, Bicarbonate, Carbonate Alkalinity,
TDS, NO2, pH, Spec. Cond.

Br, Cl, F, SO4

Phosphorus, Nitrate

Ca, Fe, Mg, Mn, K, Na, Ba, B, Se, Sr

BTEX

DRO, GRO

Methane, Ethane, Propane

Bart Bacteria

*If methane is >1.0 mg/L additional
compositional testing required

Lab ID

Field ID

Matrix

Sample
Date

Sample
Time

Bottles

Pres.

QC

1 Red Rock Gathering Company, LLC Well

GW

3/17/2015

10:45

12

1,2,3
B

x

x

x

x

x

x

x

x

2 Trip Blank

W

3/17/15

1

1, B

x

x

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: Please see attached analyte list for sample constituents.

QC PACKAGE (check below)

LEVEL II (Standard QC)

LEVEL III (Std QC + forms)

LEVEL IV (Std QC + forms +
raw data)

3.4'C

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

SIGNATURE

PRINTED NAME

DATE

TIME

RELINQUISHED BY

Jordan Carlo

3/17/2015

15:00

RECEIVED BY

RELINQUISHED BY

3-17-15 11:00

RECEIVED BY

RELINQUISHED BY

3-17-15 10:00

RECEIVED BY

3/18/15 09:30

138

From: (616) 298-1033
 Nick Martinez
 ALS Environmental
 127 E. 1st Street

Origin ID: RILA



JHS12150223079w

PARACHUTE, CO 81635

SHP TO: (616) 399-6870
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

BILL SENDER

HOLLAND, MI 49424

Ship Date: 17MAR15
 ActWgt: 58.0 LB
 CAD: 2264840/NET3610

Dim: 14 X 28 X 15 IN

Delivery Address Bar Code



Ref # 031715-1
 Invoice #
 PO # Parachute
 Dept #

1 of 2

WED - 18 MAR 10:30A
 PRIORITY OVERNIGHT

TRK# 7731 5080 8336

8201

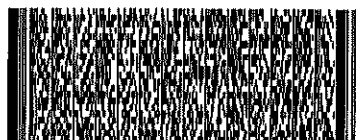
MASTER

XX HLMA

49424

MI-US

GRR



537J1879AEE48

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ALS Parachute Custody Seal

Time 17:00 Date 3-17

Name W.M.

Sample Receipt Checklist

Client Name: HRL

Date/Time Received: 18-Mar-15 09:30

Work Order: 1503963

Received by: DS

Checklist completed by Diane Shaw 18-Mar-15
eSignature Date

Reviewed by: Tom Bramish 18-Mar-15
eSignature Date

Matrices: Groundwater

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.4 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>3/18/2015 10:34:11 AM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: