



PRELIMINARY RESULTS

March 27, 2018

Ms. Olivia Yu NMOCD District I 1625 N. French Drive Hobbs, NM 88210

Re:

McBride BEH State Com #1

1RP-4827 30-025-37107

Section 4, T10S-R34E Lea County, New Mexico

Dear Ms. Yu,

EOG Y Resources, Inc. is submitting the enclosed remediation work plan for the above referenced site.

If there are no objections with the scope of work described in the plan, EOG Y Resources, Inc. will have a contractor begin work on or before April 10, 2018.

If you have any questions call me at (575) 748-4217

Thank you.

Robert Asher Environmental Supervisor EOG Y Resources, Inc.



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I. Location

From Tatum, NM travel north on NM Highway 206 to MM 37 at Crossroads, NM. Turn left (west) on Carroll Road and continue for approximately 6-2/5 miles. Turn left (south) thru cattle guard and continue south on main road approx. 2-4/5 miles. Take lease road going west for approx. 4/5 of a mile. Turn right (north) for approx. ½ of a mile to the southeast corner of the location pad.

II. Background

On September 22, 2017, EOG Y Resources, Inc. submitted to the NMOCD District I office a Form C-141 for the release of 23 B/O with 0 B/O recovered. The affected area is approximately 20 feet by 20 feet within the primary berm of the production facility and was contained within the bermed battery. The release was caused by a hole in bottom of the production tank. A vacuum truck was dispatched to recover any remaining oil, but no oil was recovered and a backhoe crew was contracted to excavate visually impacted soils (approximately 20' X 20' X 18" deep).

III. Surface and Ground Water

Area surface geology is Cenozoic Tertiary. Based on information regarding this location (Section 4, T10S-R34E), the New Mexico Office of the State Engineer (NMOSE) database depth to groundwater is follows: (NMOSE-L 05023, 85'), the United States Geological Survey National Water Information System, is as follows: (USGS #33285210323601, 104'), (USGS #332500103270701, 55'), (USGS #3323321036000001, 156'). The average depth to groundwater is greater than 100', per USGS and NMOSE groundwater level. **Based on this information the Site Ranking is a Zero (0).**

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being Lane Salt Lake at 7.27 miles away.

Please note, the Depth to Ground Water was incorrect on the Form C-141, Initial Report submitted September 22, 2017. DTGW was adjusted on this work plan according to USGS and NMOSE Groundwater levels.

IV. NMOCD Ranking Criteria

The ranking for this site is zero (0) based on the following:

Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

Based on the ranking criteria, the NMOCD established RRALs for this site are:

Benzene 10 ppm BTEX 50 ppm TPH 5,000 ppm



V. Soils

The area consists of soils that are loam based topsoil with deeper layers of consisting of a cemented hardpan caliche layer in the subsurface that is impenetrable, which provides a permeability barrier to prohibit percolation of contaminants into the subsurface water system.

VI. Scope of work

During the sampling (GPS coordinates below), of 2/6/2018, backhoe refusal did not allow EOG Y to sample any further than the point of four (4) feet below surface. Based off of that fact, the enclosed analytical results and the site ranking of zero, EOG Y Resources, Inc. will excavate four (4) feet of impacted soils from the release area to the hardpan caliche layer. A six (6) inch layer of clean native or like soil will be placed in the bottom of the excavation to cushion a 20 millimeter synthetic liner, this will protect the liner from puncture or damage. The excavation will then be backfilled with approximately 42-46 inches of clean native or like soil to be slightly above grade to allow for settling. The soils initially excavated that were stockpiled on plastic will be taken to an NMOCD approved facility.

When the remediation work is completed, a Form C-141, Final Report/Closure Report will be submitted requesting closure.

GPS Sample Points

S-1 S-2	33.477689° 33.477670°	-103.476332° -103.476357°
CP-1	33.477658°	-103.476350°
CP-2	33.477678°	-103.476376°
CP-3	33.477703°	-103.476349°
CP-4	33.477680°	-103.476316°



Table 1 Soil Analytical Data

McBride BEH State Com #1	Sample Area	Sample Date	Sample Type	Depth	Benzene	BTEX	GRO	DRO	EXT DRO
S-1.0	Release/ Excavation	9/21/2017	Grab/Auger	Surface (18" BSL)	ND	2.9	48	6500	1100
S-1.1	Release/ Excavation	9/21/2017	Grab/Auger	12" (30" BSL)	0.610	75.8	1100	450	ND
S-1.2	Release/ Excavation	2/6/2018	Grab/Backhoe	24" (42" BSL)	<0.5	158	3560	1230	<10.0
S-1.3**	Release/ Excavation	2/6/2018	Grab/Backhoe	36" (54" BSL)	1.370	422.0	5840	2110	<10.0
S-2.Surface	Release/ Excavation	2/6/2018	Grab/Backhoe	Surface (18" BSL)	<0.05	1.13	<10.0	19	<10.0
S-2.1	Release/ Excavation	2/6/2018	Grab/Backhoe	12" (30" BSL)	<0.05	7.01	130	204	<10.0
S-2.2	Release/ Excavation	2/6/2018	Grab/Backhoe	24" (42" BSL)	<0.5	0.675	<10	<10	<10.0
S-2.3**	Release/ Excavation	2/6/2018	Grab/Backhoe	36" (54" BSL)	<0.5	2.72	56.5	63.7	<10.0
McBride BEH State Com #1	Sample Area	Sample Date	Sample Type	Depth	Benzene	BTEX	GRO	DRO	DRO
CP-1	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	ND	ND	170	200
CP-1.1	Release/ Excavation	2/6/2018	Grab/Backhoe	30"	<0.05	18.7	839	1300	<10
CP-1.2	Release/ Excavation	2/6/2018	Grab/Backhoe	42"	<0.05	18.3	647	551	<10
CP-1.3**	Release/ Excavation	2/6/2018	Grab/Backhoe	54"	<1.0	217	1810	924	<10
CP-2	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	ND	ND	120	120
CP-2.1	Release/ Excavation	2/6/2018	Grab/Backhoe	30"	<0.05	0.541	<10	<10	<10
CP-2.2	Release/ Excavation	2/6/2018	Grab/Backhoe	42"	<0.05	<0.3	<10	<10	<10
CP-2.3**	Release/ Excavation	2/6/2018	Grab/Backhoe	54"	<0.05	<0.3	<10	<10	<10
CP-3	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	ND	ND	380	200
CP-4	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	8.7	160	680	3600
CP-4.1	Release/ Excavation	2/6/2018	Grab/Backhoe	30"	<1.0	621	12400	3570	<10
CP-4.2	Release/ Excavation	2/6/2018	Grab/Backhoe	42"	<1.0	197	3500	1760	<10
CP-4.3**	Release/ Excavation	2/6/2018	Grab/Backhoe	54"	<0.05	<0.3	<10	<10	<10
McBride BEH State Com #1	Sample Area	Sample Date	Sample Type	Depth	Benzene	BTEX	GRO	DRO	DRO
S-2.05	Stock pile	9/21/2017	Grab/Shovel	6"	ND	ND	1000	1400	ND

Site Ranking is Zero (0). Depth to Ground Water >100' (approx.100', per USGS & NMOSE Groundwater Levels).

All results are ppm. BSL - Below Surface Level. Released: 23 B/O; Recovered: 0 B/O. Release Date: 9/7/2017

RRAL's (0 Site Ranking), TPH: 5000 ppm or less; BTEX: 50ppm or less; Benzene: 10ppm or less.

^{** -} Backhoe Refusal



Figure 1

Site Map

Legend McBride BEH State Com #1 Wellatide BEH State Com #1 1 ea County, New Mexico 30-025-37107 Section 4, T10S-R34E

$\forall \mathbb{Z}$ Excavation Corners **Legend** NE Excervation Conner (88,4777707 & -108,4776911) SE Excendion Corner (88,477654 & -108,476911) SW Excavation Corner (884177658 & -+108,4776581) 707 & -103.47638 Excevelion Conner (36 McBride BEH State Com #1 Area of Release/Excavation Corner Points Section 4, T10S-R34E Lea County, New Mexico Google Earth



Figure 2

Vertical Sample Point(s)





Figure 3

Horizontal Sample Point(s)





Appendix A

Water Well Date Site Map





Appendix B NMOSE Well Log



New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag

POD Number

Q64 Q16 Q4 Sec Tws Rng

Х

L 05023

2 07 11S 34E

635415 3695003*



Driller License: 322

Driller Company: BACKUS, GRADY

Driller Name:

Drill Start Date:

12/27/1962

Drill Finish Date:

12/27/1962

Plug Date:

12/27/1962

Log File Date:

PCW Rcv Date:

02/17/1964

Source:

Shallow

Pump Type: Casing Size:

7.00

Pipe Discharge Size: Depth Well:

140 feet

Estimated Yield: Depth Water:

85 feet

Water Bearing Stratifications:

Top Bottom Description

85

Sandstone/Gravel/Conglomerate

116

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

85

130



Appendix C

USGS Groundwater Level Information



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Geographic Area:		
United States	~	GO
	United States	United States

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USGS 332332103260001 11S.35E.05.132222

Available data for this site SUMMARY OF ALL AVAILABLE DATA ✓ GO

Well Site

DESCRIPTION:

Latitude 33°23'32", Longitude 103°26'00" NAD27

Lea County, New Mexico Well depth: not determined.

Land surface altitude: 4,153 feet above NAVD88.

Well completed in "Ogallala Formation" (1210GLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1981-02-	1990-12-	2
measurements	17	06	3

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

Email questions about this site to New Mexico Water Science Center Water-**Data Inquiries**

Ouestions about sites/data? Feedback on this web site Automated retrievals Help

Data Tips
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U.S. Department of the Interior | U.S. Geological Survey
Title: NWIS Site Information for USA: Site Inventory
URL: https://waterdata.usgs.gov/nwis/inventory?

URL: https://waterdata.usgs.gov/nwis/inventory?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2017-11-07 09:51:10 EST

0.29 0.27 caww01





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National Water Information System: Web Interface

USGS	water	Resources

Geographic Area:		
United States	~	GO
	United States	

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

332332103260001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 332332103260001 11S.35E.05.132222

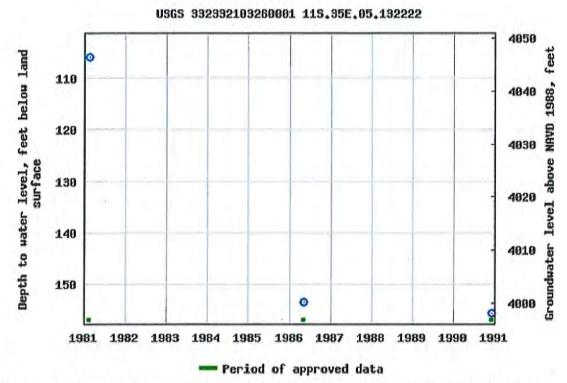
Available data for this site	Groundwater:	Field measurements	 GO	
Lea County, New Mexico				
Hydrologic Unit Code				

Latitude 33°23'32", Longitude 103°26'00" NAD27 Land-surface elevation 4,153 feet above NAVD88

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2017-11-07 09:51:23 EST

1.03 0.9 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO
-				_

Click to hideNews Bulletins

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USGS 332500103270701 10S.34E.27.14210

Available data for this site | SUMMARY OF ALL AVAILABLE DATA V

Well Site

DESCRIPTION:

Latitude 33°25'16", Longitude 103°27'11" NAD27 Lea County, New Mexico , Hydrologic Unit 12080001

Well depth: not determined.

Land surface altitude: 4,190.00 feet above NGVD29.

Well completed in "Cretaceous System" (210CRCS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1976-05-	1976-05-	- i
measurements	04	04	1

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science

Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

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Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?



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0.32 0.29 caww01



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National Water Information System: Web Interface

USGS Water Resources	Data Category:		Geographic Area:		
OSOS WATER RESOURCES	Groundwater	V	United States	~	GO

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

332500103270701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 332500103270701 10S.34E.27.14210

Available data for this site Groundwater: Field measurements ✓ GO

Lea County, New Mexico

Hydrologic Unit Code 12080001

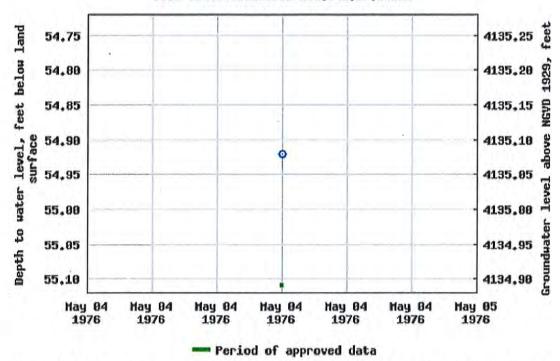
Latitude 33°25'16", Longitude 103°27'11" NAD27

Land-surface elevation 4,190.00 feet above NGVD29

This well is completed in the Cretaceous System (210CRCS) local aquifer.

Table of data
Tab-separated data
Graph of data
Reselect period

USGS 332500103270701 105,34E,27,14210



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team

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Appendix D

Soil Sample Laboratory Data



February 22, 2018

ROBERT ASHER
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: MC BRIDE BEH STATE COM #1 (CP-1,CP-2,CP-4)

Enclosed are the results of analyses for samples received by the laboratory on 02/16/18 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

02/16/2018

Reported:

02/22/2018

Project Name: Project Number: MC BRIDE BEH STATE COM #1 (CP-1,CP

Project Location:

30-025-37107

96.2%

37.6-147

LEA CO NM

Sampling Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CP - 1.1 (H800498-01)

BTEX 8021B	mg/	kg	Analyze	d By; MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	0.361	0.050	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	18.3	0.150	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	18.7	0.300	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	154%	72-148		-1					
TPH 8015M	mg/l	(g	Analyze	Analyzed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	839	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	1300	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	192 %	41-142							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE MOTE: Uability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses, any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

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EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: Reported: 02/16/2018

02/22/2018

Project Name: Project Number: MC BRIDE BEH STATE COM #1 (CP-1,CP

Project Location:

30-025-37107

LEA CO NM

Sampling Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CP - 1.2 (H800498-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	0.315	0.050	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	< 0.050	0.050	02/19/2018	ND	2.09	104	2.00	10,8	
Total Xylenes*	18.0	0.150	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	18.3	0.300	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	156%	6 72-148							
TPH 8015M	mg/	kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	647	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	551	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	128%	6 41-142							
Surrogate: 1-Chlorooctadecane	85.19	6 37.6-14	7						

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*=Accredited Analyte

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Celley D. Keine



EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: Reported: 02/16/2018

02/22/2018

Project Name:

MC BRIDE BEH STATE COM #1 (CP-1,CP

Project Number: Project Location: 30-025-37107

ation: LEA CO NM

Sampling Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CP - 1.3 (H800498-03)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/20/2018	ND	2.06	103	2.00	11.8	
Toluene*	12.9	1.00	02/20/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	12.5	1.00	02/20/2018	ND	2,09	104	2.00	10.8	
Total Xylenes*	191	3.00	02/20/2018	ND	6.10	102	6,00	10.4	
Total BTEX	217	6.00	02/20/2018	ND					

Surrogate:	4-Bromofluorobenzene (1	TI
Burrogale.	4-Drumonuarovenzene ir	113

144%

72-148

TPH 8015M	mg/kg		Analyze	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1810	10.0	02/19/2018	ND	180	89.8	200	10.5		
DRO >C10-C28*	924	10.0	02/19/2018	ND	190	94.9	200	9.95		
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND						
Surrogate: 1-Chlorooctane	173	% 41-142								
a contract and	05.4	02 37714	_							

Surrogate: 1-Chlorooctadecane

95.4%

37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



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Received:

02/16/2018

Reported:

DTEV 0031D

02/22/2018

Project Name:

MC BRIDE BEH STATE COM #1 (CP-1,CP

Project Number:

30-025-37107

men Illen

Project Location:

LEA CO NM

Sampling Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: CP - 2.1 (H800498-04)

mg/I	cg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
< 0.050	0.050	02/20/2018	ND	2.06	103	2.00	11.8	
0.082	0.050	02/20/2018	ND	2.09	104	2.00	11.5	
<0.050	0.050	02/20/2018	ND	2.09	104	2.00	10.8	
0.459	0.150	02/20/2018	ND	6.10	102	6.00	10.4	
0.541	0.300	02/20/2018	ND					
116 %	72-148							
mg/k	(g	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/19/2018	ND	180	89.8	200	10.5	
<10.0	10.0	02/19/2018	ND	190	94.9	200	9.95	
<10.0	10.0	02/19/2018	ND					
84.4 %	6 41-142							
	Result <0.050 0.082 <0.050 0.459 0.541 //6 % mg/s Result <10.0 <10.0	Result Reporting Limit <0.050 0.050 0.082 0.050 <0.050 0.050 0.459 0.150 0.541 0.300 ### 72-148 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD < 0.050

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Celley D. Keine



EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: Reported: 02/16/2018

02/22/2018

Project Name: Project Number: MC BRIDE BEH STATE COM #1 (CP-1,CP

Project Location:

30-025-37107

LEA CO NM

Sampling Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CP - 2.2 (H800498-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	< 0.050	0.050	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	<0.150	0.150	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	<0.300	0.300	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1179	6 72-148							
трн 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	<10.0	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	86.8 %	6 41-142							
Surrogate: 1-Chlorooctadecane	89.39	6 37.6-14	7						

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Celeg & Keine



EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

02/16/2018

Reported:

02/22/2018

Project Name: Project Number: MC BRIDE BEH STATE COM #1 (CP-1,CP

Project Location:

30-025-37107

LEA CO NM

Sampling Date:

Sampling Date:

02/06/2018

Sampling Type:

Sampling Condition:

Sample Received By:

Soil Cool & Intact

Tama

Tamara Oldaker

Sample ID: CP - 2.3 (H800498-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	<0.050	0.050	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	<0.150	0.150	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	<0.300	0.300	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	121 9	% 72-148							
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	<10.0	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	87.45	% 41-142							
Surrogate: 1-Chlorooctadecane	87.79	% 37.6-14	7						

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Celley T. Kenne



EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

02/16/2018

Reported:

02/22/2018

Project Name: Project Number: MC BRIDE BEH STATE COM #1 (CP-1,CP

Project Location:

30-025-37107

LEA CO NM

Sampling Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CP - 4.1 (H800498-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/20/2018	ND	2.06	103	2.00	11.8	
Toluene*	60.2	1.00	02/20/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	<1.00	1,00	02/20/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	561	3.00	02/20/2018	ND	6.10	102	6.00	10.4	
Total BTEX	621	6,00	02/20/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	163 %	6 72-148							
TPH 8015M	mg/	kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12400	100	02/20/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	3570	100	02/20/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<100	100	02/20/2018	ND					
Surrogate: 1-Chlorooctane	421 %	6 41-142							
Surrogate: 1-Chlorooctadecane	89.79	6 37.6-14	7						

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Celeg D. Keine



EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

02/16/2018

Reported:

02/22/2018

Project Name: Project Number: MC BRIDE BEH STATE COM #1 (CP-1,CP

Project Location:

30-025-37107

LEA CO NM

Sampling Date:

g Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CP - 4.2 (H800498-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/20/2018	ND	2.06	103	2,00	11.8	
Toluene*	11.9	1.00	02/20/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	<1.00	1.00	02/20/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	186	3.00	02/20/2018	ND	6.10	102	6.00	10.4	
Total BTEX	197	6.00	02/20/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	1579	6 72-148		- 147					
TPH 8015M	mg/	kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3500	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	1760	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	238 %	6 41-142							
Surrogate: 1-Chlorooctadecane	97.8 9	6 37.6-14	7						

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Celleg D. Keine



EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

02/16/2018

Reported:

02/22/2018

Project Name:

MC BRIDE BEH STATE COM #1 (CP-1,CP

Project Number: Project Location: 30-025-37107

LEA CO NM

Sampling Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CP - 4.3 (H800498-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/20/2018	ND	2.06	103	2.00	11.8	
Toluene*	36.1	1.00	02/20/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	24.7	1.00	02/20/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	236	3.00	02/20/2018	ND	6.10	102	6.00	10.4	
Total BTEX	297	6.00	02/20/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	151%	6 72-148							-
TPH 8015M	mg/l	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3050	10.0	02/21/2018	ND	222	111	200	6.62	
DRO >C10-C28*	1240	10.0	02/21/2018	ND	219	110	200	5.64	
EXT DRO >C28-C36	<10.0	10.0	02/21/2018	ND					
Surrogate: 1-Chlorooctane	206 %	41-142							
Surrogate: 1-Chlorooctadecane	97.29	6 37.6-147	,						

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Celey D. Keene



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect,
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
Ġ.	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Kreene

.AB # (lab use only)

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Total #. of Containers

TPH: 8015M Extended

TX 1005

Callons (Ca, Mg, Na, K)

Metals: As Ag Ba Cd Cr Pb Hg Se

BTEX 8021B/5030 or BTEX 8260

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

TX 1006

Field Fillered

HNO₃ HCI

H₂SO₄ NaOH Na₂S₂O₃ None Other (Specify) DW≃Drinking Water SL=Sludge

TPH:

Anions (CI) SAR/ESP/CEC

Volaliles Semivolatiles

RCI N,O.R.M.

Standard TAT

2 CP-12

CP-1.1

FIELD CODE

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CP-1.3 CP-2.1

Special Instructions:

TPH EXTENDED PLEASE.

ALL results in mg/kg. Thank you

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2/6/2018

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Custody seals on cooler(s)
Sample Hand Delivered Labels on container(s)
Custody seals on container(s) VOCs Free of Headspace? Laboratory Comments: Sample Containers Intact?

Temperature Upon Receipt

02/16/18 Date

12:15 PM

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Réceived by:

Date

CP-4.1

CP-2.3 CP-2.2

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CP-4.2

Relinquished by:

Date

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Received by ELOT

Relinquished by:

(lab use only) ORDER #:

824008H

Sampler Signature:

Telephone No:

575-748-4171

Fax No: e-mail:

robert asher@eogresources.com

City/State/Zip:

Artesia, NM 88210

101 East Marland, Hobbs, NM 88240 ARDINAL LABORATORIES

Company Address:

104 South 4th Street

(505) 393-2326 FAX (505) 393-2476

Company Name Project Manager: Robert Asher EOG Resources, Inc. Project Name: McBride BEH State Com #1 (CP-1, CP-2, CP-4) Project #: 30-025-37107

Report Format:	PO #	Project Loc
x Standard	Po #: 205632	Project Loc: Lea County
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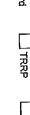
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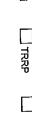
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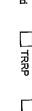
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Page	12



February 22, 2018

ROBERT ASHER
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: MC BRIDE BEH STATE COM #1 (S-1 & S-2)

Enclosed are the results of analyses for samples received by the laboratory on 02/16/18 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



EOG Y RESOURCES, INC. ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131 Fax To:

Received:

02/16/2018

Reported:

02/22/2018

Project Name: Project Number: MC BRIDE BEH STATE COM #1 (S-1 & S-

Project Location:

30-025-37107

LEA CO NM

Sampling Date:

Sampling Type:

02/06/2018

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S - 1.2 (H800496-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	02/19/2018	ND	2.06	103	2.00	11.8		
Toluene*	10.8	0.500	02/19/2018	ND	2.09	104	2.00	11.5		
Ethylbenzene*	<0.500	0.500	02/19/2018	ND	2.09	104	2.00	10.8		
Total Xylenes*	147	1.50	02/19/2018	ND	6.10	102	6.00	10.4		
Total BTEX	158	3.00	02/19/2018	ND						
Surrogate: 4-Bromofluorobenzene (PIL	152%	6 72-148								
TPH 8015M	mg/l	kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3560	10.0	02/19/2018	ND	180	89.8	200	10.5		
DRO >C10-C28*	1230	10.0	02/19/2018	ND	190	94.9	200	9.95	QM-07	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND						
Surrogale: 1-Chlorooctane	203 %	6 41-142								
Surrogate: 1-Chlorooctadecane	94.5%	6 37.6-14	7							

Cardinal Laboratories

*=Accredited Analyte

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Received:

02/16/2018

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02/22/2018

Project Name:

MC BRIDE BEH STATE COM #1 (S-1 & S-

Project Number: Project Location: 30-025-37107

LEA CO NM

Sampling Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S - 1.3 (H800496-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.37	1.00	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	67.4	1.00	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	24.0	1.00	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	329	3.00	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	422	6,00	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	151 %	6 72-148		4.61.					
TPH 8015M	mg/	kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5840	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	2110	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	273 %	6 41-142							
Surrogate: 1-Chlorooctadecane	98.0 %	6 37.6-147	7						

Cardinal Laboratories

*=Accredited Analyte

FLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tart, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be idented waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be table for incidental or consequential damages, including, without limitation, business inferentyptons, loss of use, or loss of profits incurred by client, its subsidiavies, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey & Keens



EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

02/16/2018

Reported:

02/22/2018

Project Name: Project Number: MC BRIDE BEH STATE COM #1 (S-1 & S-

30-025-37107

Project Location:

LEA CO NM

Sampling Date:

02/06/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S - 2.SURFACE (H800496-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	0.092	0.050	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	< 0.050	0.050	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	1.04	0.150	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	1.13	0.300	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	124%	6 72-148							
TPH 8015M	mg/l	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	19.0	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	88.6 %	6 41-142							
Surrogate: 1-Chlorooctadecane	86.6%	6 37.6-147	,						

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Celley Ditreen



EOG Y RESOURCES, INC. ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: Reported: 02/16/2018

02/22/2018

Project Name:

MC BRIDE BEH STATE COM #1 (S-1 & S-

Project Number:

30-025-37107

Project Location:

LEA CO NM

Sampling Date:

02/06/2018 Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S - 2.1 (H800496-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS	-				S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	0.265	0.050	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	6.75	0.150	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	7.01	0.300	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	185 %	72-148		41000					
TPH 8015M	mg/l	(g	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	130	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	204	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	108 %	41-142							
Surrogate: 1-Chlorooctadecane	92.6%	37.6-14	,						

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*=Accredited Analyte

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EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

02/16/2018

Reported:

02/22/2018

Project Name:

MC BRIDE BEH STATE COM #1 (S-1 & S-

Project Number: Project Location: 30-025-37107

LEA CO NM

Sampling Date:

Sampling Date: Sampling Type: 02/06/2018

oe:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S - 2.2 (H800496-05)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	< 0.050	0.050	02/19/2018	ND	2.09	104	2.00	11,5	
Ethylbenzene*	0.055	0.050	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	0.620	0.150	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	0.675	0.300	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	135 %	6 72-148							
TPH 8015M	mg/l	(g	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	<10.0	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	88.1 %	6 41-142							
Surrogate: 1-Chlorooctadecane	87.8 %	37.6-147	,						

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*=Accredited Analyte

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Celey & Keens



EOG Y RESOURCES, INC ROBERT ASHER 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

02/16/2018

Reported:

02/22/2018

Project Name:

MC BRIDE BEH STATE COM #1 (S-1 & S-

Project Number:

30-025-37107

Project Location:

LEA CO NM

94.6%

37.6-147

Sampling Date:

02/06/2018 Sampling Type:

Soil

Sampling Condition:

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: S - 2.3 (H800496-06)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	0.115	0.050	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	<0.050	0.050	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	2,60	0.150	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	2.72	0.300	02/19/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	133	% 72-148							
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	56.5	10.0	02/19/2018	ND	180	89.8	200	10.5	
DRO >C10-C28*	63.7	10.0	02/19/2018	ND	190	94.9	200	9.95	
EXT DRO >C28-C36	<10.0	10.0	02/19/2018	ND					
Surrogate: 1-Chlorooctane	97.6	% 41-142	VIII T						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeny & Keene

Project Name: McBride BEH State Com #1 (S-1 &S-2

Page 9 of 9



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Project Manager:

Robert Asher

(505) 393-2326 FAX (505) 393-2476

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

OrderNo.: 1709E32

September 29, 2017

Robert Asher
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: McBride BEH State Com 1

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/26/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1709E32

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Project:

McBride BEH State Com 1

1709E32-001 Lab ID:

Matrix: SOIL

Client Sample ID: S-1.0

Collection Date: 9/21/2017 10:30:00 AM

Received Date: 9/26/2017 9:35:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	: TOM
Diesel Range Organics (DRO)	1400	93		mg/Kg	10	9/27/2017 4:45:16 PM	34083
Motor Oil Range Organics (MRO)	ND	460		mg/Kg	10	9/27/2017 4:45:16 PM	34083
Surr: DNOP	0	70-130	S	%Rec	10	9/27/2017 4:45:16 PM	34083
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	: NSB
Gasoline Range Organics (GRO)	100	4.7		mg/Kg	1	9/27/2017 5:24:56 PM	34082
Surr: BFB	594	54-150	S	%Rec	1	9/27/2017 5:24:56 PM	34082
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	0.027	0.023		mg/Kg	1	9/27/2017 5:24:56 PM	34082
Toluene	0.25	0.047		mg/Kg	1	9/27/2017 5:24:56 PM	34082
Ethylbenzene	0.21	0.047		mg/Kg	1	9/27/2017 5:24:56 PM	34082
Xylenes, Total	4.9	0.094		mg/Kg	1	9/27/2017 5:24:56 PM	34082
Surr: 4-Bromofluorobenzene	132	66.6-132	S	%Rec	1	9/27/2017 5:24:56 PM	34082

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 10 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1709E32

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-1.1

Project:

McBride BEH State Com 1

Collection Date: 9/21/2017 10:42:00 AM

Lab ID:

1709E32-002

Matrix: SOIL

Received Date: 9/26/2017 9:35:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	450	9.7	mg/Kg	1	9/27/2017 2:17:30 PN	1 34083
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/27/2017 2:17:30 PN	1 34083
Surr: DNOP	98.2	70-130	%Rec	1	9/27/2017 2:17:30 PM	1 34083
EPA METHOD 8015D: GASOLINE RAN	IGE				Analy	st: NSB
Gasoline Range Organics (GRO)	1100	48	mg/Kg	10	9/27/2017 12:42:51 P	M 34082
Surr: BFB	454	54-150	S %Rec	10	9/27/2017 12:42:51 P	M 34082
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	0.61	0.24	mg/Kg	10	9/27/2017 12:42:51 P	M 34082
Toluene	17	0.48	mg/Kg	10	9/27/2017 12:42:51 P	M 34082
Ethylbenzene	7.2	0.48	mg/Kg	10	9/27/2017 12:42:51 P	M 34082
Xylenes, Total	51	0.96	mg/Kg	10	9/27/2017 12:42:51 P	M 34082
Surr: 4-Bromofluorobenzene	129	66.6-132	%Rec	10	9/27/2017 12:42:51 P	M 34082

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1709E32

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: CP-1

Project: McBride BEH State Com 1

Collection Date: 9/21/2017 10:58:00 AM

Lab ID: 1709E

1709E32-003

Matrix: SOIL

Received Date: 9/26/2017 9:35:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S				Analyst	:: TOM
Diesel Range Organics (DRO)	2700	98		mg/Kg	10	9/27/2017 5:09:45 PM	34083
Motor Oil Range Organics (MRO)	ND	490		mg/Kg	10	9/27/2017 5:09:45 PM	34083
Surr: DNOP	0	70-130	S	%Rec	10	9/27/2017 5:09:45 PM	34083
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	: NSB
Gasoline Range Organics (GRO)	6100	250		mg/Kg	50	9/27/2017 1:06:29 PM	34082
Surr: BFB	487	54-150	s	%Rec	50	9/27/2017 1:06:29 PM	34082
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	1.9	1.2		mg/Kg	50	9/27/2017 1:06:29 PM	34082
Toluene	83	2.5		mg/Kg	50	9/27/2017 1:06:29 PM	34082
Ethylbenzene	26	2.5		mg/Kg	50	9/27/2017 1:06:29 PM	34082
Xylenes, Total	290	4.9		mg/Kg	50	9/27/2017 1:06:29 PM	34082
Surr: 4-Bromofluorobenzene	130	66.6-132		%Rec	50	9/27/2017 1:06:29 PM	34082

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1709E32

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: CP-2

Project:

McBride BEH State Com 1

Collection Date: 9/21/2017 11:09:00 AM

Lab ID:

1709E32-004

Matrix: SOIL

Received Date: 9/26/2017 9:35:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S				Analys	: TOM
Diesel Range Organics (DRO)	1500	93		mg/Kg	10	9/27/2017 5:34:05 PM	34083
Motor Oil Range Organics (MRO)	ND	470		mg/Kg	10	9/27/2017 5:34:05 PM	34083
Surr: DNOP	0	70-130	s	%Rec	10	9/27/2017 5:34:05 PM	34083
EPA METHOD 8015D: GASOLINE RAN	IGE					Analys	: NSB
Gasoline Range Organics (GRO)	4000	230		mg/Kg	50	9/27/2017 1:29:59 PM	34082
Surr: BFB	346	54-150	s	%Rec	50	9/27/2017 1:29:59 PM	34082
EPA METHOD 8021B: VOLATILES						Analys	: NSB
Benzene	1.5	1.2		mg/Kg	50	9/27/2017 1:29:59 PM	34082
Toluene	60	2.3		mg/Kg	50	9/27/2017 1:29:59 PM	34082
Ethylbenzene	20	2.3		mg/Kg	50	9/27/2017 1:29:59 PM	34082
Xylenes, Total	170	4.6		mg/Kg	50	9/27/2017 1:29:59 PM	34082
Surr: 4-Bromofluorobenzene	123	66.6-132		%Rec	50	9/27/2017 1:29:59 PM	34082

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1709E32

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: CP-3

Project:

McBride BEH State Com 1

Collection Date: 9/21/2017 11:18:00 AM

Lab ID:

1709E32-005

Matrix: SOIL

Received Date: 9/26/2017 9:35:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	:: TOM
Diesel Range Organics (DRO)	130	9.8		mg/Kg	1	9/27/2017 3:31:10 PM	34083
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/27/2017 3:31:10 PM	34083
Surr: DNOP	99.3	70-130		%Rec	1	9/27/2017 3:31:10 PM	34083
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	220	4.8		mg/Kg	1	9/27/2017 5:48:22 PM	34082
Surr: BFB	802	54-150	S	%Rec	1	9/27/2017 5:48:22 PM	34082
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	0.19	0.024		mg/Kg	1	9/27/2017 5:48:22 PM	34082
Toluene	2.7	0.048		mg/Kg	1	9/27/2017 5:48:22 PM	34082
Ethylbenzene	0.75	0.048		mg/Kg	1	9/27/2017 5:48:22 PM	34082
Xylenes, Total	9.1	0.095		mg/Kg	1	9/27/2017 5:48:22 PM	34082
Surr: 4-Bromofluorobenzene	143	66.6-132	S	%Rec	1	9/27/2017 5:48:22 PM	34082

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1709E32

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: CP-4

Project:

McBride BEH State Com 1

Collection Date: 9/21/2017 11:28:00 AM

Lab ID:

1709E32-006

Matrix: SOIL

Received Date: 9/26/2017 9:35:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	: TOM
Diesel Range Organics (DRO)	4100	100		mg/Kg	10	9/27/2017 3:55:44 PM	34083
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	9/27/2017 3:55:44 PM	34083
Surr: DNOP	0	70-130	s	%Rec	10	9/27/2017 3:55:44 PM	34083
EPA METHOD 8015D: GASOLINE RAM	IGE					Analyst	: NSB
Gasoline Range Organics (GRO)	9200	470		mg/Kg	100	9/27/2017 6:11:45 PM	34082
Surr: BFB	339	54-150	S	%Rec	100	9/27/2017 6:11:45 PM	34082
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	4.4	2.3		mg/Kg	100	9/27/2017 6:11:45 PM	34082
Toluene	130	4.7		mg/Kg	100	9/27/2017 6:11:45 PM	34082
Ethylbenzene	31	4.7		mg/Kg	100	9/27/2017 6:11:45 PM	34082
Xylenes, Total	560	9.4		mg/Kg	100	9/27/2017 6:11:45 PM	34082
Surr: 4-Bromofluorobenzene	122	66.6-132		%Rec	100	9/27/2017 6:11:45 PM	34082

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1709E32

Date Reported: 9/29/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Lab ID:

LOG

Project: McBride BEH State Com 1

1709E32-007

Client Sample ID: S-2.05

C B (1 B) 0/01/001#11.05

Collection Date: 9/21/2017 11:37:00 AM Received Date: 9/26/2017 9:35:00 AM

Analyses Result PQL Qual Units DF Date Analyzed Batch **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) 1400 96 mg/Kg 10 9/27/2017 4:20:39 PM 34083 Motor Oil Range Organics (MRO) ND 480 mg/Kg 10 9/27/2017 4:20:39 PM 34083 Surr: DNOP 0 70-130 S %Rec 9/27/2017 4:20:39 PM 10 34083 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 1000 25 mq/Kq 5 9/27/2017 6:35:12 PM 34082 Surr: BFB 1140 54-150 S %Rec 5 9/27/2017 6:35:12 PM 34082 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.12 mg/Kg 9/27/2017 6:35:12 PM 34082 Toluene 2.4 0.25 mg/Kg 5 9/27/2017 6:35:12 PM 34082 Ethylbenzene 6.2 0.25 mg/Kg 5 9/27/2017 6:35:12 PM 34082 Xylenes, Total 55 0.49 mg/Kg 5 9/27/2017 6:35:12 PM 34082 Surr: 4-Bromofluorobenzene 9/27/2017 6:35:12 PM 170 66.6-132 S %Rec 34082

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E32

29-Sep-17

Client:

EOG

	le BEH State	Com								
Sample ID LCS-34083	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 34	083	F	RunNo: 4	5917				
Prep Date: 9/26/2017	Analysis D	ate: 9/	27/2017	S	SeqNo: 1	459346	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.3	7 3.2	114			
Surr: DNOP	4.4		5.000		88.4	70	130			
Sample ID MB-34083	SampT	ype: ME	BLK	Tes	tCode: El	A Method	8015M/D: Die	esel Range	e Organics	
•	•	ype: ME a ID: 34			tCode: El		8015M/D: Die	esel Range	e Organics	
Client ID: PBS	•	1D: 34	083	F		5917	8015M/D: Did	J	e Organics	
Client ID: PBS Prep Date: 9/26/2017	Batch	1D: 34	083 27/2017	F	RunNo: 4	5917		J	e Organics RPDLimit	Qual
Client ID: PBS Prep Date: 9/26/2017 Analyte	Batch Analysis D	n ID: 34	083 27/2017	F	RunNo: 4	5917 459351	Units: mg/K	(g	J	Qual
Client ID: PBS	Batch Analysis D Result	n ID: 34 vate: 9/	083 27/2017	F	RunNo: 4	5917 459351	Units: mg/K	(g	J	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- **PQL** Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits

Page 8 of 10

- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E32

29-Sep-17

Client:

EOG

Project:

McBride BEH State Com 1

Sample ID MB-34082 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: **PBS** Batch ID: 34082 RunNo: 45928 Prep Date: 9/26/2017 Analysis Date: 9/27/2017 SeqNo: 1459919 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 920 1000 91.6 54 150

Sample ID LCS-34082	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batcl	n ID: 34	082	F	RunNo: 4	5928				
Prep Date: 9/26/2017	Analysis D	ate: 9/	27/2017	S	SeqNo: 1	459930	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	76. 4	125		****	
Surr: BFB	1000		1000		102	54	150			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 9 of 10

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1709E32

29-Sep-17

Client:

EOG

Project:

McBride BEH State Com 1

Sample ID MB-34082	SampT	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: 34	082	F	RunNo: 4	5928				
Prep Date: 9/26/2017	Analysis D	Date: 9/	27/2017	S	SeqNo: 1	459967	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	66.6	132			

Sample ID LCS-34082	Samp1	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 34	082	F	RunNo: 4	5928				
Prep Date: 9/26/2017	Analysis D	Date: 9/	27/2017	S	SeqNo: 1	459968	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Elhylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Tolal	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	66.6	132			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com **EOG/Yates** Client Name: Work Order Number: 1709E32 RcptNo: 1 Received By: Isaiah Ortiz 9/26/2017 9:35:00 AM Completed By: Sophia Campuzano 9/26/2017 10:28:28 AM inter in . 9/26/17 Reviewed By: Chain of Custody 1. Custody seals intact on sample bottles? No 🗌 Yes 🗌 Not Present 2, Is Chain of Custody complete? No 🗌 Yes 🔽 Not Present 3. How was the sample delivered? Courier <u>Log In</u> 4. Was an attempt made to cool the samples? No 🗆 Yes 🗹 NA 🗆 Were all samples received at a temperature of >0° C to 6.0°C NA 🗆 Yes 🗸 No 🗌 6. Sample(s) in proper container(s)? Yes 🗸 Yes 🛂 7. Sufficient sample volume for indicated test(s)? No \square 8. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 9. Was preservative added to bottles? Yes 🗌 No 🔽 NA 🗆 10. VOA vials have zero headspace? Yes 🗍 No 🗌 No VOA Vials 🗹 Yes 11. Were any sample containers received broken? No 🗹 # of preserved bottles checked 12. Does paperwork match bottle labels? Yes 🔽 No 🗆 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 13. Are matrices correctly identified on Chain of Custody? Adjusted? V No 🗌 14. Is it clear what analyses were requested? No 🗌 **V** Yes 15. Were all holding times able to be met? Yes 🔽 No 🗌 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes \square No 🗌 NA 🔽 Person Notified: Date By Whom: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Temp °C | Condition | Seal Intact | Seal No Cooler No Seal Date 4.2 Good

Mailing Address: 105 South 4th Stroot Project Name: McStele BEH State Com #1 Actives Name: McStele Nam				Standard	Rush						1	5	THE LIVE TROUMENIA	AL
				Project Nam	áí				ANA	LYS	SL	AB0	RATO	RY
Test	Mailing Address: 1	05 South	4th Street	McBride DEL	Chata Communication	3			WWW	hallery.	ironmen	ital.co	F	
The color of the	Artesia, NM 88210			Project #:	Signe Coll #			4901 H	wkins N		ndnerdr	Je, NN	87109	
Robert Asher@eogresources.com	Phone #: (575) 748	4217		30 025 2740	,			Tel. 50	-345-39		ax 505	-345-4	107	
Chackage	email: Robert Ash	er@eogre	Sources com	Drainet M						Analysi	s Requ	est		
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Time: Matrix Sample Request ID Type and # Type HEAL No. 1.1				direct and man	cialui c.	1.		ende	09 P		_		YO/	10)
21/17 10:30 AM Soil S-1.0 1-40z. Ice -CC X X X X X X X X X		Matrix		Container Type and #	Preservative Type	HEAL NO.		N 8015B Ex	DB (Wethoo				v-imes) ov	Bubbles ()
21/17 10:42 AM Soil S-1.1 1-4oz Ice -002 21/17 10:58 AM Soil CP-2 1-4oz Ice -003 21/17 11:09 AM Soil CP-2 1-4oz Ice -004 21/17 11:37 AM Soil CP-4 1-4oz Ice -005 21/17 11:37 AM Soil S-2.05 1-4oz Ice -007 21/17 Image: Imag		_	S-1.0	1 - 4oz.	2	- 170	_	1 ;	3	111	1	12:11	70	ηİΑ
21/17 10:58 AM Soil CP-1 1-402. Ice00/3 21/17 11:18 AM Soil CP-2 1-402. Ice00/3 21/17 11:28 AM Soil CP-3 1-402. Ice00/5 21/17 11:37 AM Soil S-2.05 1-402. Ice00/5 21/17 11:37 AM Soil S-2.05 1-402. Ice00/6 21/17 11:37 AM Soil S-2.05 1-402. Ice00/7 21/17 11:37 AM Soil S-2.05 1-402. Ice00/7 21/17 11:37 AM Soil S-2.05 1-402. Ice00/7 21/17 11:37 AM Soil S-2.05 1-402. Ice00/3 21/17 11:37 AM Soil S-2.05			S-1.1	1 - 407	3 2	3	<	×	1	1		+		
21/17 11:09 AM Soil CP-2 1-402, lceOC-3 21/17 11:18 AM Soil CP-3 1-402, lceOC-5 21/17 11:28 AM Soil CP-4 1-402, lceOC-5 21/17 11:37 AM Soil S-2.05 1-402, lceOC-7 21/17 11:37 AM Soil S-2.05	_			- 105.	3	1007	×	×						
21/17 11:09 AM Soil CP-2 1-402 Ice ——CCJ 21/17 11:28 AM Soil CP-4 1-402 Ice ——CCJ 21/17 11:37 AM Soil S-2.05 1-402 Ice ——CCJ 21/17 11:40 AM Recircushappy AM Recircush by Recircush by Recircush by Recircush by Ice Time		-	CF-1	1-402.	lce	-003	×	×						
21/17 11:18 AM Soil CP-3 1-40z. Ice — © © 5 21/17 11:28 AM Soil CP-4 1-40z. Ice — © © 5 21/17 11:37 AM Soil S-2.05 1-40z. Ice — © © 7 21/17 11:37 AM Soil S-2.05 1-40z. Ice — © © 7 21/17 11:37 AM Soil S-2.05 1-40z. Ice — © © 7 21/17 11:37 AM Soil S-2.05 1-40z. Ice — © © 7 21/17 11:37 AM Soil S-2.05 1-40z. Ice — © © 97 21/17 11:37 AM Soil S-2.05 1-40z. Ice — © © © 97 21/17 11:37 AM Soil S-2.05 1-40z. Ice — © © © 97 21/17 11:37 AM Soil S-2.05 1-40z. Ice — © © © 97 21/17 11:37 AM Soil S-2.05 1-40z. Ice — © © © 97 21/17 11:37 AM Soil S-2.05			CP-2	1-40Z.	lce	HOO-	×	×				+		
21/17 11:28 AM Soil CP-4 1-402. Ice — CCC 21/17 11:37 AM Soil S-2:05 1-402. Ice — CCC7 Time: Reincuished by: Received by: Time Time: Reinquished by: Received by: Date Time	-		CP-3	1 - 402.	lge eg	500-	>	>	L	-		+		1
T1/17 11:37 AM Soil S-2:05 1-4oz. Ice ——CC7 Time: Reinquished by: Received by: Time: Relinquished by: Roceived by: Roceived by: Roceived by: Date Time			CP-4	1-402.	8	-000	< >	< >		-		+		+
Time: Relinquished by: Received by: Receiv	_		\$-2.05	1-40Z.	a	-607	< >	< ;		-		-		+
Time: Relinquished by: Received by: Received by: Received by: Received by: Received by: Date Time Date Time							<	<				+		-
Time: Relinquished by: eceived by: Time: Relinquished by: Received by: R														-
Time: Relinquished by: Received by: Receiv	1						+							
Time: Relinquished by: Received by: Date Time Date Time Date Time									1			-		
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Appendix E

Form C-141 Initial

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Kei	ease Notific	catio			Action				
Mana +60	Carrier I			00000		OPERA'	TOR			al Report		Final Re
Name of Company OGRID Number EOG Y Resources, Inc. 25575						Contact Robert Asher						
Address						Telephone No.						
104 S. 4th Street						575-748-1471						
Facility Name McBride BEH State Com #1						Facility Type						
McBride B	EH State (Com #1				Battery						
Surface Owner Mineral Own State State						er API No.						
										30-025-37107		
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township Range Feet from the							/West Line County			
Е	4	10S	34E	1980	714	North	660		est	Lea		
				Latitude 32.4	47756	_Longitude	103.47538					
Type of Release NATUR						E OF RELEASE Volume of Release Volume Recovered						
Crude Oil						23 B/O 0 B/O						
Source of Release Production Tank						Date and Hour of Occurrence Date and Hour of Discovery				covery		
Was Immediate Notice Given?						9/7/2017; F If YES, To			9/7/2017;	PM		
		\boxtimes	Yes	No 🗌 Not Re	quired	N/A						
By Whom?						Date and Hour						
N/A Was a Watercourse Reached?						N/A						
☐ Yes ⊠ No						If YES, Volume Impacting the Watercourse.						
	ırse was Imp	oacted, Descri	ibe Fully.*		_							
f a Watercou			dial Action	Taken.*								
De la la destact	se of Proble	m and Remed	area a receive									
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