



*EOG Resources, Inc.  
Artesia Division Office  
104 S. 4<sup>th</sup> Street  
Artesia, N. M. 88210*

March 27, 2018

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

## **PRELIMINARY RESULTS**

Re: Judson AUU State Com #2  
1RP-4826  
30-025-36886  
Section 26, 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.

## **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	33.412619°	-103.432827°
S-2	33.412602°	-103.432851°
CP-1	33.412590°	-103.432842°
CP-2	33.412610°	-103.432868°
CP-3	33.412632°	-103.432841°
CP-4	33.412608°	-103.432809°

# **Table 1**

## **Soil Analytical Data**

Judson AUU State Com #2	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	2.900	48	6500	1100
S-1.1	Release/ Excavation	2/7/2018	Grab/Auger	Surface (30" BSL)	<5.0	1600	7080	6110	<50.0
S-1.2**	Release/ Excavation	2/7/2018	Grab/Auger	Surface (42" BSL)	9.110	1330	5870	4800	74.7
S-2.0	Release/ Excavation	2/7/2018	Grab/Auger	Surface (30" BSL)	<0.05	0.506	<10.0	530	56.5
S-2.1	Release/ Excavation	2/7/2018	Grab/Auger	Surface (42" BSL)	<0.05	10.7	39.8	340	<10.0
S-2.2	Release/ Excavation	2/7/2018	Grab/Auger	Surface (54" BSL)	2.560	973	3670	2820	<10.0
S-2.3**	Release/ Excavation	2/7/2018	Grab/Auger	Surface (66" BSL)	16.9	2050	15100	8780	168
CP-1	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	ND	ND	170	200
CP-2	Release/ Excavation	9/21/2017	Grab/Auger	18"	ND	ND	ND	120	120
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	3600	680
CP-4.1	Release/ Excavation	2/7/2018	Grab/Auger	Surface (30" BSL)	<2.0	47.0	4710	4060	79.5
CP-4.2	Release/ Excavation	2/7/2018	Grab/Auger	Surface (42" BSL)	13.4	1650.0	9200	5630	37.3
CP-4.3**	Release/ Excavation	2/7/2018	Grab/Auger	Surface (54" BSL)	<5.0	1160.0	6220	4140	28.7
S-2.05	Stock pile	9/21/2017	Grab/Shovel	6"	ND	0.690	31	2000	480

Site Ranking is Ten (10). Depth to Ground Water >100' (approx. 101', per USGS Groundwater Levels and NMOSE).

All results are ppm. BSL - Below Surface Level. Released: 26 B/C; Recovered: 0 B/C. Release Date: 9/7/2017

\*\* - Backhoe Refusal.

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

# **Figure 1**

## **Site Map**



# Judson AUU State Com #2

Section 26, T10S-R34E  
Lea County, New Mexico

## Legend

Judson AUU State Com #2



Google Earth

© 2015 Google

200 ft

## **Figure 2**

### **Vertical Sample Point(s)**

# Judson AUU State Com #2

Section 26, T10S-R34E  
Lea County, New Mexico

## Legend

- Judson Excavation
- Vertical Sample Points





# Judson AUU State Com #2

Section 26, T10S-R34E  
Lea County, New Mexico

## Legend

- Judson Excavation
- Vertical Sample Points

Google Earth

© 2018 Google

40 ft



# **Figure 3**

## **Horizontal Sample Point(s)**



# Judson AUU State Com #2

Section 26, T10S-R34E  
Lea County, New Mexico

## Legend

- Horizontal Sample Points
- Judson Excavation





# Judson AUU State Com #2

Section 26, T10S-R34E  
Lea County, New Mexico

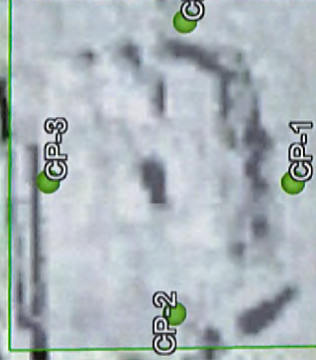
## Legend

- Horizontal Sample Points
- Judson Excavation

Google Earth

© 2018 Google

40 ft





# **Appendix A**



## **Water Well Date Site Map**



# Judson AUU State Com #2

Section 26, T10S-R34E  
Lea County, New Mexico  
Water Well Data Site Ranking is Zero (0). Depth to Ground Water >100'  
(Approximately 101', per USGS & NMOSE Groundwater Levels).

## Legend

-  Judson AUU State Com #2
-  USGS & NMOSE Water Wells

USGS #332852103234601 (DTGW @ 104')

USGS #332500103270701 (DTGW @ 55')

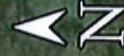
Judson AUU State Com #2

USGS #332332103600001 (DTGW @ 156')

NMOSE - L 14107 POD1 (DTGW @ 90')

Google Earth

© 2017 Google



4 mi



# **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	X	Y
L 14107	POD1	3 4 4	18	10S	35E	658821	3701464

Driller License:	1611	Driller Company:	GOERTZEN DRILLING
Driller Name:	GOERTZEN, JOHN		
Drill Start Date:	04/27/2016	Drill Finish Date:	04/28/2016
Log File Date:	05/18/2016	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	6.00	Depth Well:	117 feet
		Plug Date:	
		Source:	Shallow
		Estimated Yield:	
		Depth Water:	90 feet

Water Bearing Stratifications:	Top	Bottom	Description
	58	105	Sandstone/Gravel/Conglomerate
	105	112	Other/Unknown
	112	117	Other/Unknown

Casing Perforations:	Top	Bottom
	0	117



# **Appendix C**

## **USGS Groundwater Level Information**



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## National Water Information System: Web Interface

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Data Category:

Site Information ▼

Geographic Area:

United States ▼

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## USGS 332852103234601 10S.35E.06.211134

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

### Well Site

#### DESCRIPTION:

Latitude 33°28'58", Longitude 103°23'58" NAD27

Lea County, New Mexico , Hydrologic Unit 12080006

Well depth: not determined.

Land surface altitude: 4,159.00 feet above NGVD29.

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

#### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Field groundwater-level measurements</a>	1981-04-10	1996-01-30	4

#### 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](#)

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**Title: NWIS Site Information for USA: Site Inventory**

**URL: <https://waterdata.usgs.gov/nwis/inventory?>**



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2017-10-24 08:46:14 EDT

0.45 0.43 caww02



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Groundwater levels for the Nation

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 332852103234601

Minimum number of levels = 1

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### USGS 332852103234601 10S.35E.06.211134

Lea County, New Mexico

Latitude 33°28'58", Longitude 103°23'58" NAD27

Land-surface elevation 4,159.00 feet above NGVD29

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

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1981-04-10		D	105.95				2		U	
1986-04-22		D	105.10				2		U	
1991-01-25		D	104.36				2		U	
1996-01-30		D	103.83				2		Z	

#### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Groundwater levels for the Nation

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Agency code = usgs

site\_no list =

- 332332103260001

Minimum number of levels = 1

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### USGS 332332103260001 11S.35E.05.132222

Lea County, New Mexico

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 (121OGLL) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measur
1981-02-17		D	105.98			2			U	
1986-05-05		D	153.44			2			U	
1990-12-06		D	155.51			2			U	

#### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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- 332332103260001

Minimum number of levels = 1

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### 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

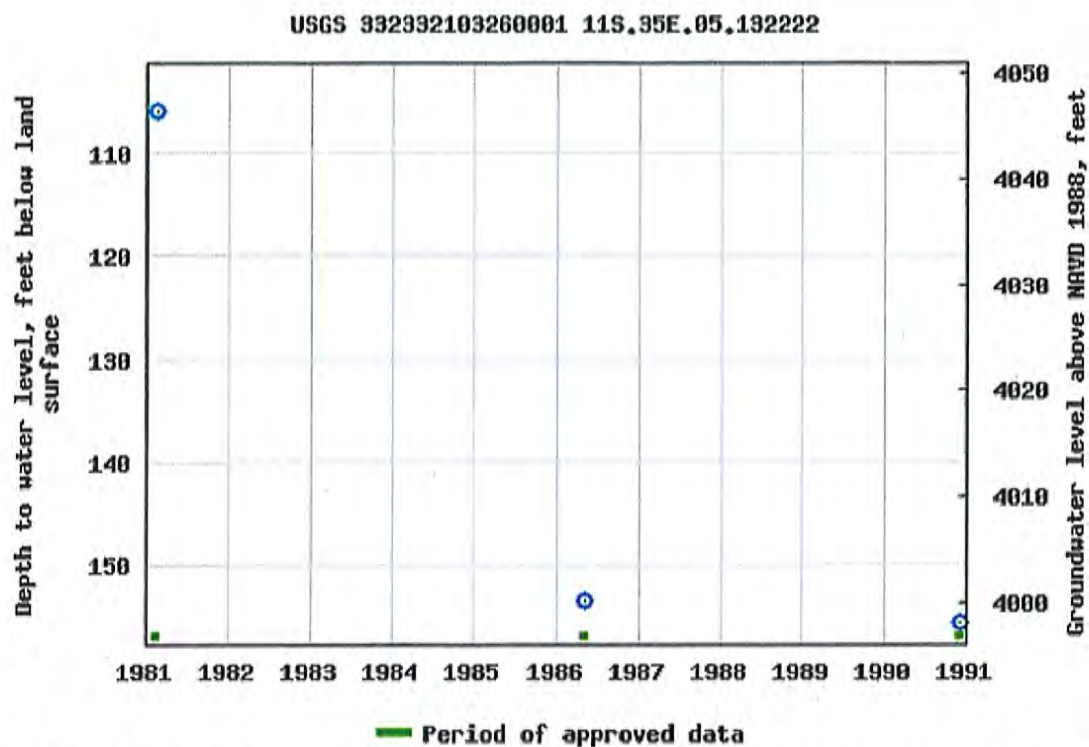
Land-surface elevation 4,153 feet above NAVD88

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>





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

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1 0.88 nadww01





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Geographic Area:

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Agency code = usgs

site\_no list =

- 332500103270701

Minimum number of levels = 1

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### 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.

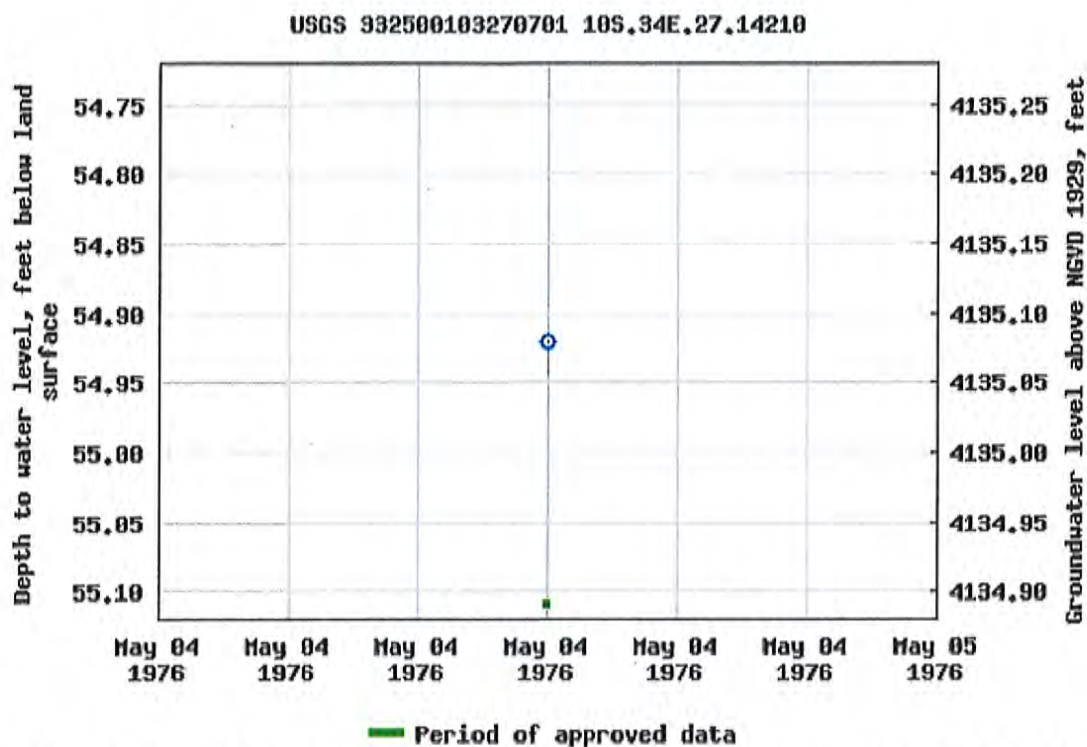
#### Output formats

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0.95 0.84 nadww01





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- 332500103270701

Minimum number of levels = 1

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### USGS 332500103270701 10S.34E.27.14210

Lea County, New Mexico

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.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measur
1976-05-04		D	54.92			2		U		

#### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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0.48 0.4 nadww01



# **Appendix D**

## **Soil Sample Laboratory Data**

February 22, 2018

ROBERT ASHER

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JUDSON AUU STATE COM #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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

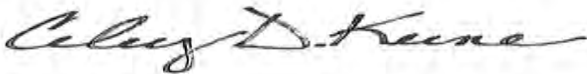
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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.

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

**Analytical Results For:**

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: JUDSON AUJ STATE COM #2  
Project Number: 30-025-36886  
Project Location: LEA CO NM

Sampling Date: 02/07/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 1.1 (H800495-01)**

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	02/20/2018	ND	2.22	111	2.00	0.215	
Toluene*	166	5.00	02/20/2018	ND	2.18	109	2.00	0.136	
Ethylbenzene*	47.7	5.00	02/20/2018	ND	2.16	108	2.00	0.166	
Total Xylenes*	1390	15.0	02/20/2018	ND	6.65	111	6.00	0.355	
Total BTEX	1600	30.0	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 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*	7080	50.0	02/19/2018	ND	203	101	200	2.12		
DRO >C10-C28*	6110	50.0	02/19/2018	ND	230	115	200	0.552		
EXT DRO >C28-C36	<50.0	50.0	02/19/2018	ND						

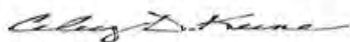
Surrogate: 1-Chlorooctane 416 % 41-142

Surrogate: 1-Chlorooctadecane 157 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability 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. All claims, including those for negligence and any other cause whatsoever shall be deemed 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 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 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 approval of Cardinal Laboratories.



Caley D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 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: JUDSON AUJ STATE COM #2  
 Project Number: 30-025-36886  
 Project Location: LEA CO NM

 Sampling Date: 02/07/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1.2 (H800495-02)**

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.11	5.00	02/20/2018	ND	2.22	111	2.00	0.215	
Toluene*	285	5.00	02/20/2018	ND	2.18	109	2.00	0.136	
Ethylbenzene*	49.8	5.00	02/20/2018	ND	2.16	108	2.00	0.166	
Total Xylenes*	988	15.0	02/20/2018	ND	6.65	111	6.00	0.355	
Total BTEX	1330	30.0	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 72-148

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*	5870	10.0	02/19/2018	ND	203	101	200	2.12	
DRO >C10-C28*	4800	10.0	02/19/2018	ND	230	115	200	0.552	
EXT DRO >C28-C36	74.7	10.0	02/19/2018	ND					

Surrogate: 1-Chlorooctane 311 % 41-142

Surrogate: 1-Chlorooctadecane 160 % 37.6-147

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\* = Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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: JUDSON AUJ STATE COM #2  
Project Number: 30-025-36886  
Project Location: LEA CO NM

Sampling Date: 02/07/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 2.0 (H800495-03)**

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2018	ND	2.22	111	2.00	0.215	
Toluene*	<b>0.164</b>	0.050	02/20/2018	ND	2.18	109	2.00	0.136	
Ethylbenzene*	<0.050	0.050	02/20/2018	ND	2.16	108	2.00	0.166	
Total Xylenes*	<b>0.343</b>	0.150	02/20/2018	ND	6.65	111	6.00	0.355	
Total BTEX	<b>0.506</b>	0.300	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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*	<10.0	10.0	02/19/2018	ND	203	101	200	2.12	
DRO >C10-C28*	<b>530</b>	10.0	02/19/2018	ND	230	115	200	0.552	
EXT DRO >C28-C36	<b>56.5</b>	10.0	02/19/2018	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Caley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 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: JUDSON AUJ STATE COM #2  
 Project Number: 30-025-36886  
 Project Location: LEA CO NM

 Sampling Date: 02/07/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2.1 (H800495-04)**

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2018	ND	2.22	111	2.00	0.215	
Toluene*	<b>0.280</b>	0.050	02/20/2018	ND	2.18	109	2.00	0.136	
Ethylbenzene*	<b>0.771</b>	0.050	02/20/2018	ND	2.16	108	2.00	0.166	
Total Xylenes*	<b>9.62</b>	0.150	02/20/2018	ND	6.65	111	6.00	0.355	
Total BTEX	<b>10.7</b>	0.300	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 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*	<b>39.8</b>	10.0	02/20/2018	ND	203	101	200	2.12	
DRO >C10-C28*	<b>340</b>	10.0	02/20/2018	ND	230	115	200	0.552	
EXT DRO >C28-C36	<10.0	10.0	02/20/2018	ND					

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

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Caley D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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: JUDSON AUJ STATE COM #2  
Project Number: 30-025-36886  
Project Location: LEA CO NM

Sampling Date: 02/07/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: S - 2.2 (H800495-05)**

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.56</b>	2.00	02/20/2018	ND	2.22	111	2.00	0.215	
<b>Toluene*</b>	<b>147</b>	2.00	02/20/2018	ND	2.18	109	2.00	0.136	
<b>Ethylbenzene*</b>	<b>64.1</b>	2.00	02/20/2018	ND	2.16	108	2.00	0.166	
<b>Total Xylenes*</b>	<b>759</b>	6.00	02/20/2018	ND	6.65	111	6.00	0.355	
<b>Total BTEX</b>	<b>973</b>	12.0	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 72-148

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*	3670	10.0	02/20/2018	ND	203	101	200	2.12	
DRO >C10-C28*	2820	10.0	02/20/2018	ND	230	115	200	0.552	
EXT DRO >C28-C36	<10.0	10.0	02/20/2018	ND					

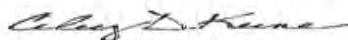
Surrogate: 1-Chlorooctane 247 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 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: JUDSON AUJ STATE COM #2  
 Project Number: 30-025-36886  
 Project Location: LEA CO NM

 Sampling Date: 02/07/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2.3 (H800495-06)**

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	16.9	5.00	02/20/2018	ND	2.22	111	2.00	0.215	
Toluene*	475	5.00	02/20/2018	ND	2.18	109	2.00	0.136	
Ethylbenzene*	129	5.00	02/20/2018	ND	2.16	108	2.00	0.166	
Total Xylenes*	1430	15.0	02/20/2018	ND	6.65	111	6.00	0.355	
Total BTEX	2050	30.0	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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*	15100	100	02/21/2018	ND	222	111	200	6.62		
DRO >C10-C28*	8780	100	02/21/2018	ND	219	110	200	5.64		
EXT DRO >C28-C36	168	100	02/21/2018	ND						

Surrogate: 1-Chlorooctane 551 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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Caley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 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: JUDSON AUJ STATE COM #2  
 Project Number: 30-025-36886  
 Project Location: LEA CO NM

 Sampling Date: 02/07/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CP - 4.1 (H800495-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/19/2018	ND	2.06	103	2.00	11.8	QM-07
Toluene*	4.17	2.00	02/19/2018	ND	2.09	104	2.00	11.5	QM-07
Ethylbenzene*	<2.00	2.00	02/19/2018	ND	2.09	104	2.00	10.8	QM-07
Total Xylenes*	42.9	6.00	02/19/2018	ND	6.10	102	6.00	10.4	QM-07
Total BTEX	47.0	12.0	02/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 72-148

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*	4710	10.0	02/20/2018	ND	222	111	200	6.62	
DRO >C10-C28*	4060	10.0	02/20/2018	ND	219	110	200	5.64	
EXT DRO >C28-C36	79.5	10.0	02/20/2018	ND					

Surrogate: 1-Chlorooctane 298 % 41-142

Surrogate: 1-Chlorooctadecane 135 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 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: JUDSON AUJ STATE COM #2  
 Project Number: 30-025-36886  
 Project Location: LEA CO NM

 Sampling Date: 02/07/2018  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CP - 4.2 (H800495-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.4	5.00	02/19/2018	ND	2.06	103	2.00	11.8	
Toluene*	263	5.00	02/19/2018	ND	2.09	104	2.00	11.5	
Ethylbenzene*	72.2	5.00	02/19/2018	ND	2.09	104	2.00	10.8	
Total Xylenes*	1300	15.0	02/19/2018	ND	6.10	102	6.00	10.4	
Total BTEX	1650	30.0	02/19/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 127 % 72-148

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*	9200	10.0	02/20/2018	ND	222	111	200	6.62		
DRO >C10-C28*	5630	10.0	02/20/2018	ND	219	110	200	5.64		
EXT DRO >C28-C36	37.7	10.0	02/20/2018	ND						

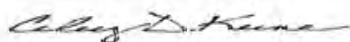
Surrogate: 1-Chlorooctane 412 % 41-142

Surrogate: 1-Chlorooctadecane 141 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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: JUDSON AUU STATE COM #2  
Project Number: 30-025-36886  
Project Location: LEA CO NM

Sampling Date: 02/07/2018  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: CP - 4.3 (H800495-09)**

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	02/20/2018	ND	2.23	112	2.00	14.1	QM-07, QR-03
Toluene*	189	5.00	02/20/2018	ND	2.18	109	2.00	13.4	QM-07, QR-03
Ethylbenzene*	68.5	5.00	02/20/2018	ND	2.15	107	2.00	11.7	QM-07, QR-03
Total Xylenes*	900	15.0	02/20/2018	ND	6.60	110	6.00	11.1	QM-07
Total BTEX	1160	30.0	02/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 72-148

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*	6220	10.0	02/20/2018	ND	222	111	200	6.62	
DRO >C10-C28*	4140	10.0	02/20/2018	ND	219	110	200	5.64	
EXT DRO >C28-C36	28.7	10.0	02/20/2018	ND					

Surrogate: 1-Chlorooctane 322 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Caley D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

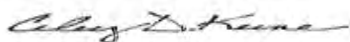
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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 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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---

Celey D. Keene, Lab Director/Quality Manager





ARDINAL LABORATORIES  
101 East Mariand, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Robert Asher

Company Name: EOG Resources, Inc.

Company Address: 104 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature: *Robert Asher*

e-mail:

robert.asher@eogresources.com

Project Name: Judson AAU State Com #2

Project #: 30-025-36886

Project Loc: Lea County

PO #: 205632

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Analyze For:

TCLP:

TOTAL:

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub>

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 8015M Extended

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

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

Standard TAT

Special Instructions:

TPH EXTENDED PLEASE. ALL results in mg/kg. Thank you.

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCS Free of Headpace?

Labels on containers?

Custody seals on containers?

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier?

UPS DHL FedEx Lone Star

Temperature Upon Receipt:

54°C



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

September 29, 2017

Robert Asher

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Judson AUU State Com 2

OrderNo.: 1709E34

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 6 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report

Lab Order 1709E34

Date Reported: 9/29/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-1.0

Project: Judson AUU State Com 2

Collection Date: 9/21/2017 1:25:00 PM

Lab ID: 1709E34-001

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	6500	96		mg/Kg	10	9/27/2017 12:23:26 PM	34083
Motor Oil Range Organics (MRO)	1100	480		mg/Kg	10	9/27/2017 12:23:26 PM	34083
Surr: DNOP	0	70-130	S	%Rec	10	9/27/2017 12:23:26 PM	34083
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	48	23		mg/Kg	5	9/27/2017 6:58:40 PM	34082
Surr: BFB	148	54-150		%Rec	5	9/27/2017 6:58:40 PM	34082
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.11		mg/Kg	5	9/27/2017 6:58:40 PM	34082
Toluene	ND	0.23		mg/Kg	5	9/27/2017 6:58:40 PM	34082
Ethylbenzene	ND	0.23		mg/Kg	5	9/27/2017 6:58:40 PM	34082
Xylenes, Total	2.9	0.46		mg/Kg	5	9/27/2017 6:58:40 PM	34082
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	5	9/27/2017 6:58:40 PM	34082

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1709E34

Date Reported: 9/29/2017

CLIENT: EOG

Client Sample ID: CP-1.1

Project: Judson AUU State Com 2

Collection Date: 9/21/2017 1:35:00 PM

Lab ID: 1709E34-002

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	170	9.8		mg/Kg	1	9/27/2017 5:04:16 PM	34083
Motor Oil Range Organics (MRO)	200	49		mg/Kg	1	9/27/2017 5:04:16 PM	34083
Surr: DNOP	99.8	70-130		%Rec	1	9/27/2017 5:04:16 PM	34083
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/28/2017 5:53:50 PM	34082
Surr: BFB	100	54-150		%Rec	1	9/28/2017 5:53:50 PM	34082
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/28/2017 5:53:50 PM	34082
Toluene	ND	0.048		mg/Kg	1	9/28/2017 5:53:50 PM	34082
Ethylbenzene	ND	0.048		mg/Kg	1	9/28/2017 5:53:50 PM	34082
Xylenes, Total	ND	0.096		mg/Kg	1	9/28/2017 5:53:50 PM	34082
Surr: 4-Bromofluorobenzene	102	66.6-132		%Rec	1	9/28/2017 5:53:50 PM	34082

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1709E34

Date Reported: 9/29/2017

CLIENT: EOG

Client Sample ID: CP-2.1

Project: Judson AUU State Com 2

Collection Date: 9/21/2017 1:43:00 PM

Lab ID: 1709E34-003

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	120	9.5		mg/Kg	1	9/27/2017 5:32:06 PM	34083
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	9/27/2017 5:32:06 PM	34083
Surr: DNOP	97.5	70-130		%Rec	1	9/27/2017 5:32:06 PM	34083
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2017 7:45:29 PM	34082
Surr: BFB	89.2	54-150		%Rec	1	9/27/2017 7:45:29 PM	34082
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/27/2017 7:45:29 PM	34082
Toluene	ND	0.050		mg/Kg	1	9/27/2017 7:45:29 PM	34082
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2017 7:45:29 PM	34082
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2017 7:45:29 PM	34082
Surr: 4-Bromofluorobenzene	104	66.6-132		%Rec	1	9/27/2017 7:45:29 PM	34082

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

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

# Analytical Report

Lab Order 1709E34

Date Reported: 9/29/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: CP-3.1

Project: Judson AUU State Com 2

Collection Date: 9/21/2017 1:47:00 PM

Lab ID: 1709E34-004

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	380	9.2		mg/Kg	1	9/27/2017 5:59:57 PM	34083
Motor Oil Range Organics (MRO)	200	46		mg/Kg	1	9/27/2017 5:59:57 PM	34083
Surr: DNOP	96.6	70-130		%Rec	1	9/27/2017 5:59:57 PM	34083
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/27/2017 8:08:59 PM	34082
Surr: BFB	93.1	54-150		%Rec	1	9/27/2017 8:08:59 PM	34082
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/27/2017 8:08:59 PM	34082
Toluene	ND	0.048		mg/Kg	1	9/27/2017 8:08:59 PM	34082
Ethylbenzene	ND	0.048		mg/Kg	1	9/27/2017 8:08:59 PM	34082
Xylenes, Total	ND	0.095		mg/Kg	1	9/27/2017 8:08:59 PM	34082
Surr: 4-Bromofluorobenzene	103	66.6-132		%Rec	1	9/27/2017 8:08:59 PM	34082

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

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



# Analytical Report

Lab Order 1709E34

Date Reported: 9/29/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: CP-4.1

Project: Judson AUU State Com 2

Collection Date: 9/21/2017 1:49:00 PM

Lab ID: 1709E34-005

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	3600	97		mg/Kg	10	9/27/2017 2:15:24 PM	34083
Motor Oil Range Organics (MRO)	680	480		mg/Kg	10	9/27/2017 2:15:24 PM	34083
Surr: DNOP	0	70-130	S	%Rec	10	9/27/2017 2:15:24 PM	34083
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	160	48		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Surr: BFB	165	54-150	S	%Rec	10	9/27/2017 8:32:31 PM	34082
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.24		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Toluene	ND	0.48		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Ethylbenzene	ND	0.48		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Xylenes, Total	8.7	0.96		mg/Kg	10	9/27/2017 8:32:31 PM	34082
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	10	9/27/2017 8:32:31 PM	34082

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

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

# Analytical Report

Lab Order 1709E34

Date Reported: 9/29/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-2.05

Project: Judson AUU State Com 2

Collection Date: 9/21/2017 1:59:00 PM

Lab ID: 1709E34-006

Matrix: SOIL

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

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	2000	37		mg/Kg	4	9/27/2017 6:27:31 PM	34083
Motor Oil Range Organics (MRO)	480	180		mg/Kg	4	9/27/2017 6:27:31 PM	34083
Surr: DNOP	127	70-130		%Rec	4	9/27/2017 6:27:31 PM	34083
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	31	19		mg/Kg	4	9/28/2017 6:40:33 PM	34082
Surr: BFB	136	54-150		%Rec	4	9/28/2017 6:40:33 PM	34082
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.096		mg/Kg	4	9/28/2017 6:40:33 PM	34082
Toluene	ND	0.19		mg/Kg	4	9/28/2017 6:40:33 PM	34082
Ethylbenzene	ND	0.19		mg/Kg	4	9/28/2017 6:40:33 PM	34082
Xylenes, Total	0.69	0.38		mg/Kg	4	9/28/2017 6:40:33 PM	34082
Surr: 4-Bromofluorobenzene	103	66.6-132		%Rec	4	9/28/2017 6:40:33 PM	34082

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709E34

29-Sep-17

Client: EOG

Project: Judson AUU State Com 2

Sample ID	LCS-34083		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 34083		RunNo: 45917					
Prep Date:	9/26/2017		Analysis Date: 9/27/2017		SeqNo: 1459346		Units: mg/Kg			
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	73.2	114			
Surr: DNOP	4.4		5.000		88.4	70	130			

Sample ID	MB-34083	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID: 34083			RunNo: 45917					
Prep Date:	9/26/2017	Analysis Date: 9/27/2017			SeqNo: 1459351		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.9	70	130			

## Qualifiers:

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1709E34

29-Sep-17

Client: EOG

Project: Judson AUU State Com 2

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			
Analyte	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	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	34082	RunNo:	45928					
Prep Date:	9/26/2017	Analysis Date:	9/27/2017	SeqNo:	1459930	Units:	mg/Kg			
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			

<b>Qualifiers:</b>		
* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 8 of 9
D Sample Diluted Due to Matrix	E Value above quantitation range	
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
PQL Practical Quantitative Limit	RL Reporting Detection Limit	
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1709E34

29-Sep-17

Client: EOG

Project: Judson AUU State Com 2

Sample ID	MB-34082	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID: 34082			RunNo: 45928					
Prep Date:	9/26/2017	Analysis Date: 9/27/2017			SeqNo: 1459967		Units: mg/Kg			
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		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 34082		RunNo: 45928					
Prep Date:	9/26/2017		Analysis Date: 9/27/2017		SeqNo: 1459968		Units: mg/Kg			
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			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	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.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



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

## Sample Log-In Check List

Client Name: EOG/Yates

Work Order Number: 1709E34

ReptNo: 1

Received By: Isaiah Ortiz

9/26/2017 9:35:00 AM

IO

Completed By: Sophia Campuzano

9/26/2017 10:52:56 AM

Sophia Campuzano

Reviewed By:

IO

9/26/17

### Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
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 ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: \_\_\_\_\_

### Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.2	Good	Yes			



# Chain-of-Custody Record

Client: **EOG Resources, Inc.**

Standard **Rush**

Project Name:

Mailing Address: 105 South 4th Street

Judson AUU State Com #2

Artesia, NM 88210

Project #:

Phone #: (575) 748-4217

30-025-36886

email: **Robert\_Asher@eogresources.com**

Project Manager:

**Robert Asher**

**PO# 205632**

QA/QC Package: ☐ Level 4 (Full Validation)

Accreditation:

☒ NELAP ☐ Other

Sampler: Robert Asher

On Ice: ☒ Yes ☐ No

Sample Temperature: **4.3**

Container Type and #

Preservative Type

HEAL No.

**1709E34**

**-001**

**-002**

**-003**

**-004**

**-005**

**-006**

Sample Request ID

Matrix

Time

Date

S-1.0

Soil

1:25 PM

9/21/17

CP-1.1

Soil

1:35 PM

9/21/17

CP-2.1

Soil

1:43 PM

9/21/17

CP-3.1

Soil

1:47 PM

9/21/17

CP-4.1

Soil

1:49 PM

9/21/17

S-2.05

Soil

1:59 PM

9/21/17

# **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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc.	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 <sup>th</sup> Street	Telephone No. 575-748-1471	
Facility Name Judson AUU State Com #2	Facility Type Battery	
Surface Owner State	Mineral Owner State	API No. 30-025-36886

**LOCATION OF RELEASE**

Unit Letter O	Section 26	Township 10S	Range 34E	Feet from the 660	North/South Line South	Feet from the 1980	East/West Line East	County Lea
------------------	---------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	---------------

Latitude 32.41272 Longitude 103.43251

**NATURE OF RELEASE**

Type of Release Condensate	Volume of Release 26 B/C	Volume Recovered 0 B/C
Source of Release Production Tank	Date and Hour of Occurrence 9/7/2017; PM	Date and Hour of Discovery 9/7/2017; PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu/NMOCD I	
By Whom? Robert Asher/ EOG Y Resources	Date and Hour 9/8/2017; AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*


Describe Cause of Problem and Remedial Action Taken.\*

Hole discovered in tank bottom, causing the release. Tank removed.

Describe Area Affected and Cleanup Action Taken.\*

An approximate area of 20'X 20'. The well and valves were closed. The impacted soils under removed tank were excavated and placed on bermed plastic, if applicable in-place remediation will be conducted. Vertical and horizontal delineation samples will be collected and analysis ran for TPH & BTEX. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: <50' (approximately 36', per USGS Groundwater Levels), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 20.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Robert Asher	Approved by Environmental Specialist:		
Title: Environmental Supervisor	Approval Date:	Expiration Date:	
E-mail Address: Robert_Asher@eogresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: September 22, 2017	Phone: 575-748-4217	<b>1RP-</b>	

\* Attach Additional Sheets If Necessary