

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

March 2, 2020

NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

Hooper Battery M-21-19S-25E Eddy County, NM Inc# NRM2000240058 Inc# NCS2003542654

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The report is being submitted accompanying the C-141 Finals.

## EOG Resources Inc. requests closure.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

Ohm Sexto

Chase Settle Rep Safety & Environmental II EOG Resources, Inc.



March 2, 2020

EOG Resources, Inc.

**Hooper Battery** 

**Closure Report** 

M-21-19S-25E

**Eddy County, NM** 

NRM2000240058

NCS2003542654

March 2, 2020



March 2, 2020

	Table of Contents	
1.	Location	1
11.	Background	1
111.	Surface and Ground Water	1
IV.	NMOCD Ranking Criteria	2
V.	Soils	2
VI.	Work Completed	2

## Tables:

Table 1: Soil Analytical Data

## Figures:

Figure 1: Site Map with Sample Points

## **Photos**

## Appendices:

Appendix A: Groundwater Depth Information

Appendix B: NRCS Soil Classification

Appendix C: 100 Year Floodplain Map

Appendix D: Laboratory Soil Data

Appendix E: Form C-141



March 2, 2020

## Location

From the intersection of US Hwy 285 and Rocking R Red Road (CR 21), head west for 5.3 miles, then turn south for 1 mile before turning west onto the lease road for a half mile to the location.

## II. Background

On November 4, 2019, EOG Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 70 B/PW with 45 B/PW recovered which occurred on October 30, 2019. The release occurred during maintenance activities on a two-inch poly to steel transition coupling. The affected area impacted by the release was approximately 125 feet by 35 feet within the battery berm. A vacuum truck was called to location to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils. Initial excavation depths were from eight inches to 4 feet below grade surface (bgs), with soil sampling being conducted on December 11, 2019, after providing notice of sampling to NMOCD on December 9, 2019.

On December 18, 2019, freezing temperatures caused a three-inch ball valve to separate on a load causing a release of 88 B/O with 33 B/O recovered. The release re-impacted areas previously excavated due to the October 30, 2019 release, and an area around the oil tank that was connected to the load line. EOG submitted the C-141 Initial for this release on January 6, 2020. EOG had the contractor working on the original begin excavating visually impacted soils and hauling those soils to an NMOCD approved disposal facility. Those activities took the excavation to a depth of six feet across most of the release area, except for the area around the tank battery that was not impacted by the release on October 30, 2019. Soil sampling was conducted on January 9, 2020, after notification was provided to NMOCD on January 6, 2020. These results indicated further excavation and sampling needed in a couple areas, so on January 20, 2020, these areas were sampled further along with the initial horizontal confirmation sampling. Notification for this sampling event was provided to NMOCD on January 15, 2020. Based on these results, further excavation was conducted in the V10 area as well as increasing the sidewall excavations at the H1, H10, and H11 areas. Further confirmation sampling was conducted on January 28, 2020, with notification of sampling provided to NMOCD on January 23, 2020. During the compilation of sample results, EOG realized 2 horizontal areas and one vertical area still required further excavation to meet the guidelines of NMAC 19.15.29.13. Sampling of these areas was conducted on February 12 and 26, 2020, with notifications provided to NMOCD on February 10 and 24, 2020.

## III. Surface and Ground Water

Area geology is Cenozoic Quaternary. Based on information from the United States Geological Survey National Water Information System (USGS) and New Mexico Office of the State Engineer (NMOSE) regarding this location (Section 21, T19S-R25E), depth to groundwater is approximately 127 feet. NMOSE well log information is from the 1950s and 60s when those wells were initially drilled, but USGS has measurement data from 2012 for the well nearest to the location, being to the northwest (0.75 mile) with water located at a depth of 125 feet bgs by the last recorded measurement. Taking that data into consideration along with the NMOSE data of a well drilled on a similar latitude with a depth of 130 feet to groundwater, it is reasonably deduced that the depth to groundwater beneath the site would be approximately 127 feet bgs. Watercourses in the area are dry except for infrequent flows in response to major precipitation



March 2, 2020

events, with the nearest body of surface water being Brantley Lake at approximately 6.65 miles away. The site is located outside of a 100 year flood plain and outside of any high or critical karst areas.

## IV. NMOCD Assessment Criteria

The site assessment criteria is as follows:

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

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

 Benzene
 10 mg/kg

 BTEX
 50 mg/kg

 TPH
 1,500 mg/kg

 DRO + GRO
 1,000 mg/kg

 Chlorides
 20,000 mg/kg

## V. Soils

USDA Natural Resources Conservation Service (NRCS) classifies soil in the area as Reagan loam, with 0-3% slopes.

## VII. Work Completed

Initial soil excavation activities for the October release removed eight (8) inches to four (4) feet of impacted soils from the release area and hauled that impacted soil to a NMOCD approved disposal facility. At that time the second release occurred on December 30, 2019, re-impacting that excavated area and a portion of new area around the oil tank. The excavated area was advanced from four (4) feet to six (6) feet in the re-impacted area, and the area around the tank battery was excavated eight (8) inches to two (2) feet around the oil tank. All excavated soils were hauled to an NMOCD approved facility for disposal. Confirmation soil sample analysis was first conducted on December 11, 2019, for the October release, but the only viable sample results after the December release were the V1 and V6 areas that were not re-impacted by that release. Confirmation soil sampling activities for the December release began on January 9, with further confirmation sampling occurring on January 28, February 12, and February 26, 2020. Soil sampling was conducted by way of 5-point composite samples, with no one sample representing greater than 200 square feet. With final confirmation results being under the required thresholds of Table 1 closure requirements and under the requirements of NMAC 19.15.29.13, the site was backfilled with non-waste containing, uncontaminated caliche to grade.

The C-141 Finals are included with this closure report, EOG Resources, Inc. requests closure of NRM2000240058 and NCS2003542654.



March 2, 2020

# **Table 1**Soil Analytical Data



March 2, 2020

**Soil Analytical Data** 

				0011	A STATE OF THE PARTY OF THE PAR	yerou		ea				
Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT DRO	Total TPH	Chlorides
NRM2000240058												
V1-4'	4	12/11/19	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	15.5	<10.0	15.5	1170
V2-4' *	4	12/11/19	< 0.050	<0.050	0.232	0.632	0.864	74.2	3640	889	4603.2	1440
V3-2' *	2	12/11/19	< 0.050	< 0.050	0.162	0.343	0.505	58.0	1720	380	2158	560
V4-4' *	4	12/11/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	59.4	<10.0	59.4	1300
V5-4' *	4	12/11/19	< 0.050	< 0.050	0.237	0.323	0.560	<10.0	363	50.8	413.8	1120
V6-4'	4	12/11/19	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	1500
NCS2003542654											Managari Com	
V2-6'	6	01/09/20	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	453	91.2	544.2	352
V3-6'	6	01/09/20	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	876	236	1112	48
V4-6'	6	01/09/20	<0.200	0.271	0.785	4.35	5.41	130	5450	1010	6590	288
V4-6.5'	6.5	01/20/20	<0.050	< 0.050	<0.050	0.258	<0.300	<10.0	52.2	<10.0	52.2	544
V5-6'	6	01/09/20	<0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	16.3	15.5	31.8	80
V7-6'	6	01/09/20	<0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	188	19.2	207.2	64
V8-6'	6	01/09/20	< 0.050	< 0.050	< 0.050	0.258	< 0.300	<10.0	336	22.7	358.7	32
V9-2'	2	01/09/20	< 0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	950	124	1074	384
V9-2.5'	2.5	02/26/20	<0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	96
V10-6"	0.5	01/09/20	<0.050	<0.050	< 0.050	< 0.150	< 0.300	10.4	1180	321	1511.4	2440
V10-8"	0.66	01/20/20	<0.050	<0.050	<0.050	0.239	< 0.300	<10.0	161	45.2	206.2	1380
V10-1'	1	01/28/20	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	80
V11-8"	0.66	01/20/20	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	224
H1	0-4	01/20/20	<0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	992
H1-2	0-4	01/28/20	<0.050	<0.050	< 0.050	< 0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96
H2	0-0.66	01/20/20	< 0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	32
H3	0-6	01/20/20	<0.050	<0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	96
H4	0-6.5	01/20/20	<0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	128
H5	0-6	01/20/20	<0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	44.5	<10.0	44.5	304
H6	0-6	01/20/20	< 0.050	< 0.050	<0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	128
H7	0-6	01/20/20	<0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	218	103	321	256
H7-2	0-6	02/12/20	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	304
H8	0-6	01/20/20	<0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	288
H9	0-6	01/20/20	<0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	133	58.7	191.7	32
H9-2	0-6	02/12/20	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	256
H10	0-4	01/20/20	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	768
H10-2	0-4	01/28/20	<0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	128
H11	0-0.66	01/20/20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.7	<10.0	12.7	608
H11-2	0-0.66	01/28/20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
H12	0-0.66	01/20/20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

<sup>\*</sup> denotes areas re-impacted by 12/18/2019 release



March 2, 2020

# Figure 1 Site Map with Sample Points



March 2, 2020





March 2, 2020

## **Photos**

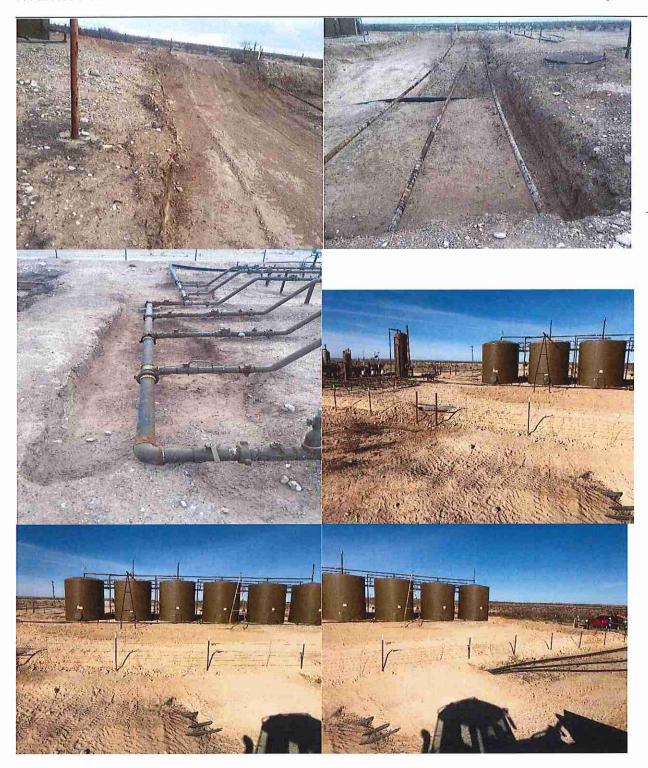


March 2, 2020





March 2, 2020



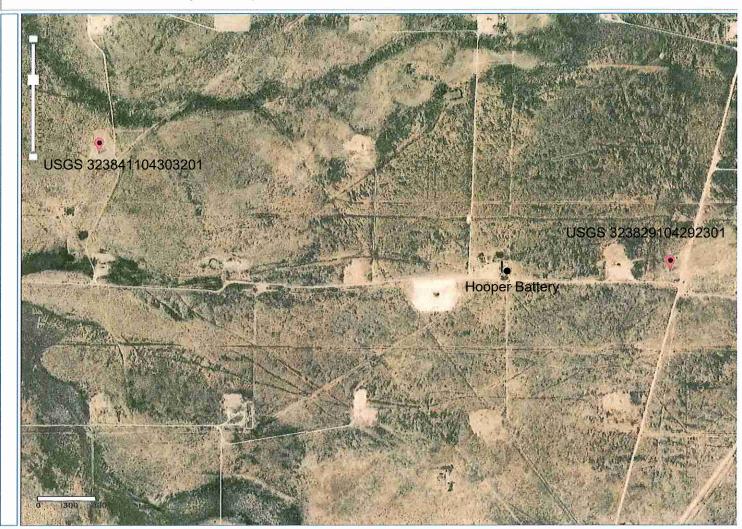


March 2, 2020

## **Appendix A**Groundwater Depth Information



National Water Information System: Map View



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

**USGS** Water Resources

Data Category: ographic Areas Groundwater ▼ United States ▼ GO

## Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

## Search Results -- 1 sites found

site no list =

323841104303201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 323841104303201 19S.25E.20.341112

Available data for this site | Groundwater: Field measurements | GO | Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'41", Longitude 104°30'32" NAD27

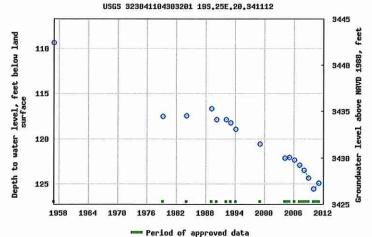
Land-surface elevation 3,552 feet above NAVD88

The depth of the well is 130 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aguifer.

**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

Privacy

Questions about sites/data? Feedback on this web site Automated retrievals Help **Data Tips** 

**Explanation of terms** Subscribe for system changes

News

Accessibility

Plug-Ins

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: ▼ United States Groundwater ▼ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

## Search Results -- 1 sites found

site\_no list =

323829104292301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 323829104292301 19S.25E.21.344334

Available data for this site Groundwater: Field measurements ▼ GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

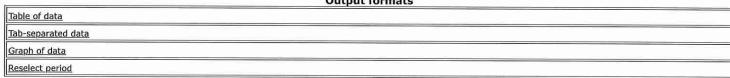
Latitude 32°38'29", Longitude 104°29'23" NAD27

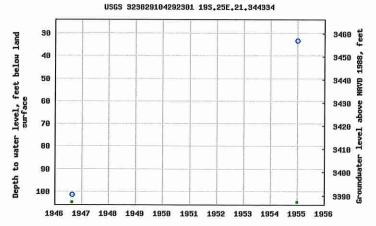
Land-surface elevation 3,491 feet above NAVD88

The depth of the well is 260 feet below land surface.

This well is completed in the Artesia Group (313ARTS) local aquifer.

**Output formats** 





- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help **Data Tips** Explanation of terms Subscribe for system changes

News

Accessibility

Plug-Ins

Privacy

Policies and Notices

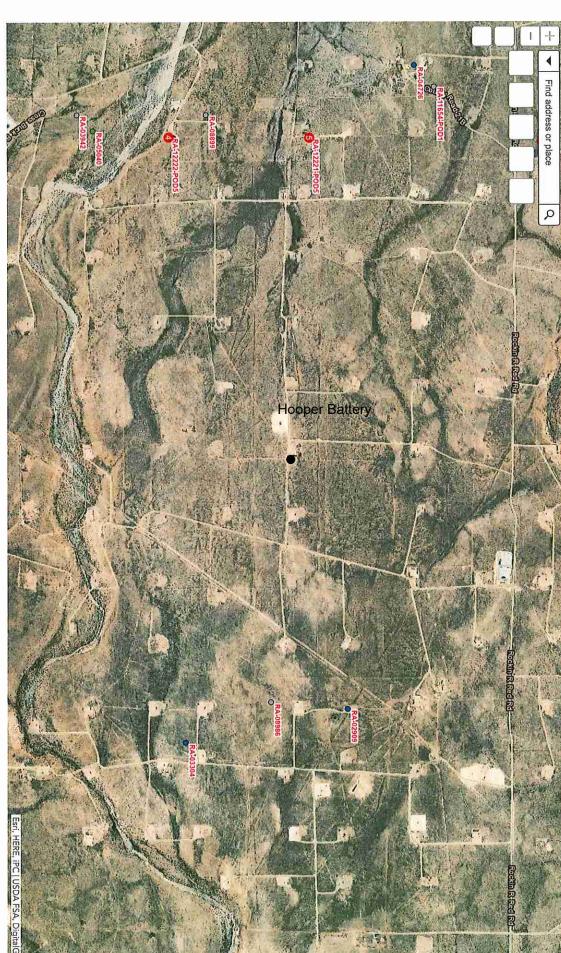
U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels

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

FO1A



**d3mi** -104.497 32.637 Degrees







## 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)

**POD Number** Well Tag RA 03304

Q64Q16Q4 Sec Tws Rng

Х

1 27 19S 25E

549081 3610973\*

**Driller License: 62** Driller Name:

BEATTY, J.R.

BEATTY, J.R. **Driller Company:** 

Drill Start Date: 10/13/1954

**Drill Finish Date:** 

10/15/1954

130 feet

Plug Date:

Log File Date: 11/22/1954 Pump Type:

PCW Rcv Date: Pipe Discharge Size:

Shallow Source:

**Estimated Yield:** 60 feet

Casing Size: 7.00 Depth Well:

Depth Water:

Water Bearing Stratifications:

Top Bottom Description 100 Sandstone/Gravel/Conglomerate

90 103

118 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

90 118

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/2/20 11:43 AM

POINT OF DIVERSION SUMMARY



## 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)

Q64Q16Q4 Sec Tws Rng **POD Number** RA 02909

548864 3611989\* 1 3 22 19S 25E

**Driller License:** 

Well Tag

**Driller Company:** 

Driller Name: A.F. SMITH

Drill Start Date: 06/26/1952 Log File Date: 08/11/1952 **Drill Finish Date:** 

07/05/1952 Plug Date:

X

Source: Shallow

Pump Type:

PCW Rcv Date: Pipe Discharge Size:

**Estimated Yield:** 

Casing Size:

Depth Well:

Depth Water: 130 feet

Water Bearing Stratifications:

Top Bottom Description

188 feet

130 Sandstone/Gravel/Conglomerate

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/2/20 11:42 AM

POINT OF DIVERSION SUMMARY

<sup>\*</sup>UTM location was derived from PLSS - see Help



## 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)

**POD Number** Well Tag

RA 04726

Q64Q16Q4 Sec Tws Rng

X

3 2 19 19S 25E Driller Company: BEATTY, J.R.

544825 3612390\*

Driller License: 62

**Driller Name:** 

Drill Start Date: 12/05/1962

**Drill Finish Date:** 

12/20/1962

Plug Date:

Log File Date: 11/08/1962 Pump Type:

PCW Rcv Date:

Source:

Pipe Discharge Size:

**Estimated Yield:** 

Casing Size:

Water Bearing Stratifications:

Depth Well: 390 feet Depth Water:

Top Bottom Description

390 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

**Top Bottom** 

320

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/2/20 11:45 AM

POINT OF DIVERSION SUMMARY

Shallow

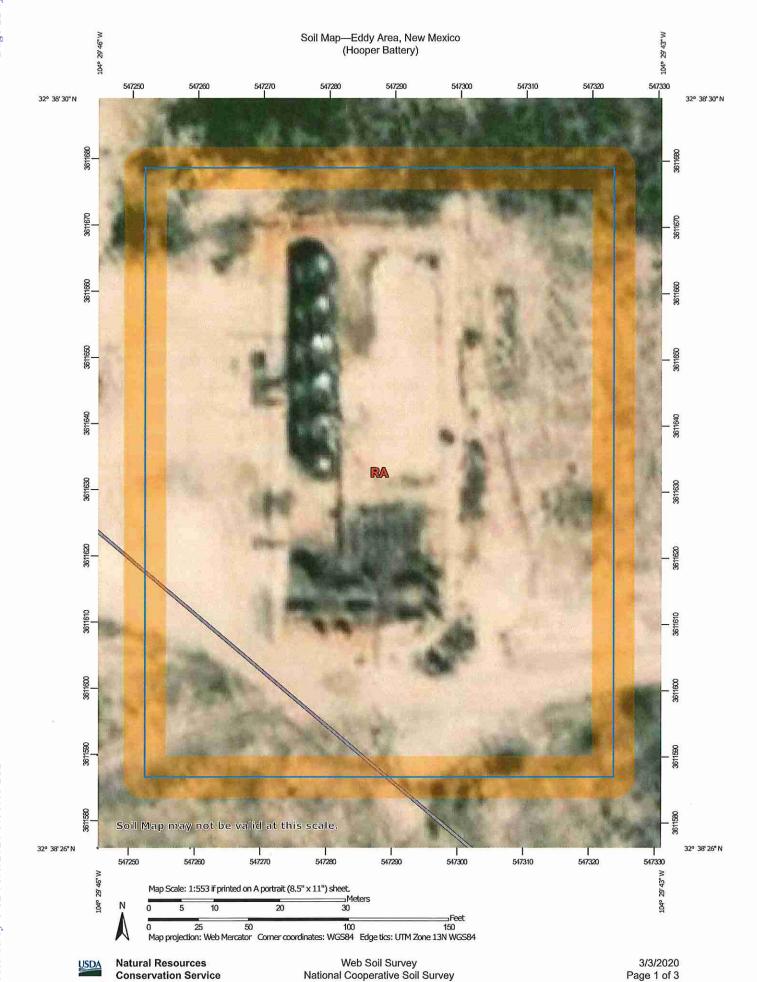
310 feet

<sup>\*</sup>UTM location was derived from PLSS - see Help



March 2, 2020

## Appendix B NRCS Soil Classification



# Spoil Area w

The soil surveys that comprise your AOI were mapped at 1:20,000.

MAP INFORMATION

Enlargement of maps beyond the scale of mapping can cause Warning: Soil Map may not be valid at this scale.

contrasting soils that could have been shown at a more detailed misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of scale.

Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

distance and area. A projection that preserves area, such as the Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Survey Area Data: Version 15, Sep 15, 2019 Soil Survey Area: Eddy Area, New Mexico

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Nov 30, 2015—Dec 15, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# MAP LEGEND

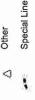
## Soil Map Unit Polygons Area of Interest (AOI) Soil Map Unit Points Soil Map Unit Lines Special Point Features Area of Interest (AOI) Soils

Very Stony Spot

Wet Spot

Stony Spot

## Special Line Features Other 4













Borrow Pit

Blowout

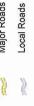
Clay Spot



Closed Depression

Gravelly Spot

Gravel Pit









Lava Flow

Landfill





Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Severely Eroded Spot Sandy Spot

Sinkhole

Sodic Spot

Slide or Slip

Web Soil Survey

Conservation Service Natural Resources

USDA

## **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	1.6	100.0%
Totals for Area of Interest		1.6	100.0%



March 2, 2020

## **Appendix C** 100 Year Floodplain Map



Navigation

Search

Languages

MSC Home (/portal/)

MSC Search by Address (/portal/search)

MSC Search All Products (/portal/advanceSearch)

 MSC Products and Tools (/portal/resources/productsandtools)

Hazus (/portal/resources/hazus)

LOMC Batch Files (/portal/resources/lomc)

Product Availability (/portal/productAvailability)

MSC Frequently Asked Questions (FAQs) (/portal/resources/faq)

MSC Email Subscriptions (/portal/subscriptionHome)

Contact MSC Help (/portal/resources/contact)

## FEMA Flood Map Service Center: Search By Address

Enter an address, place, or coordinates: 1

Eddy County New Mexico

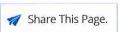
Search

Users may experience download failures on the Flood Map Service Center (MSC) website when working with large files. If you are working with files larger than 100MB, try downloading during non-peak hours.

Whether you are in a high risk zone or not, you may need <u>flood insurance (https://www.fema.gov/national-flood-insurance-program)</u> because most homeowners insurance doesn't cover flood damage. If you live in an area with low or moderate flood risk, you are 5 times more likely to experience flood than a fire in your home over the next 30 years. For many, a National Flood Insurance Program's flood insurance policy could cost less than \$400 per year. Call your insurance agent today and protect what you've built.

Learn more about steps you can take (https://www.fema.gov/what-mitigation) to reduce flood risk damage





Home (//www.fema.gov/) Download Plug-ins (//www.fema.gov/download-plug-ins) About Us (//www.fema.gov/about-agency) Privacy Policy (//www.fema.gov/privacy-policy) FOIA (//www.fema.gov/foia) Office of the Inspector General (//www.oig.dhs.gov/) Strategic Plan (//www.fema.gov/fema-strategic-plan) Whitehouse.gov (//www.whitehouse.gov) DHS.gov (//www.dhs.gov) Ready.gov (//www.ready.gov) USA.gov (//www.usa.gov) DisasterAssistance.gov (//www.disasterassistance.gov/)



Official website of the Department of Homeland Security



March 2, 2020

# **Appendix D**Laboratory Soil Data



December 17, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: HOOPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/11/19 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celeg D. Keena

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 CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received: Reported: 12/11/2019

12/17/2019 HOOPER BATTERY

Project Name: Project Number:

NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date:

12/11/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: V1-4' (H904149-01)

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	12/12/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/12/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	<0.050	0.050	12/12/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	<0.150	0.150	12/12/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	<0.300	0.300	12/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	12/12/2019	ND	432	108	400	0.00	
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	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	15.5	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	74.4	% 41-142							
Surrogate: 1-Chlorooctadecane	74.9 % 37.6-147		7						

## 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.





## Analytical Results For:

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

Received:

12/11/2019

Reported:

12/17/2019

Project Name:

HOOPER BATTERY

Project Number: Project Location: NONE GIVEN

Sampling Date:

12/11/2019

Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact Celey D. Keene

HOOPER BATTERY

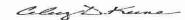
Sample ID: V2-4' (H904149-02)

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	12/13/2019	ND	2.07	103	2,00	1.27	
Toluene*	<0.050	0.050	12/13/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	0.232	0.050	12/13/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	0.632	0.150	12/13/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	0.864	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	164	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	12/12/2019	ND	432	108	400	0.00	
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*	74.2	10.0	12/12/2019	ND	164	82.1	200	13.7	
DRO >C10-C28*	3640	10.0	12/12/2019	ND	174	87.2	200	17.9	
EXT DRO >C28-C36	889	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	1145	% 41-142					<b>₩</b>		
Surrogate: 1-Chlorooctadecane	174	% 37.6-14	7						

## Cardinal Laboratories

\*=Accredited Analyte

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 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,





## Analytical Results For:

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

Received:

12/11/2019

Reported:

12/17/2019

Project Name:

HOOPER BATTERY NONE GIVEN

Project Number: Project Location:

HOOPER BATTERY

Sampling Date:

12/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: V3-2' (H904149-03)

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	12/13/2019	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	12/13/2019	ND	2.09	105	2.00	0.239	
Ethylbenzene*	0.162	0.050	12/13/2019	ND	2.03	101	2.00	0.648	
Total Xylenes*	0.343	0.150	12/13/2019	ND	5.87	97.9	6.00	0.636	
Total BTEX	0.505	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	166	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	12/12/2019	ND	432	108	400	0.00	
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*	58.0	10.0	12/12/2019	ND	174	86.9	200	12.0	
DRO >C10-C28*	1720	10.0	12/12/2019	ND	176	87.9	200	12.6	QM-07
EXT DRO >C28-C36	380	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	127	% 41-142	!						
Surrogate: 1-Chlorooctadecane	154	% 37.6-14	7						

## 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 walved 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 subclidates, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.





## Analytical Results For:

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

Received:

12/11/2019

Reported:

12/17/2019

Project Name: Project Number: HOOPER BATTERY NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date:

12/11/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: V4-4' (H904149-04)

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	12/13/2019	ND	1.95	97.5	2.00	3.09	
Toluene*	<0.050	0.050	12/13/2019	ND	1.91	95.7	2.00	3.77	
Ethylbenzene*	<0.050	0.050	12/13/2019	ND	1.93	96.5	2.00	3.47	
Total Xylenes*	<0.150	0.150	12/13/2019	ND	5.61	93.5	6.00	3.34	
Total BTEX	<0.300	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	98.5	% 73.3-12	19						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	12/12/2019	ND	432	108	400	0.00	
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	12/12/2019	ND	174	86.9	200	12.0	
DRO >C10-C28*	59.4	10.0	12/12/2019	ND	176	87.9	200	12.6	
EXT DRO >C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	119	% 41-142	2						
Surrogate: 1-Chlorooctadecane	129	% 37.6-14	17						

## 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 valved unless made in uniting 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.

Celley To Keens



## Analytical Results For:

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

Received:

12/11/2019

Sampling Date:

12/11/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

HOOPER BATTERY

Sample ID: V5-4' (H904149-05)

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	12/13/2019	ND	1.95	97.5	2.00	3.09	
Toluene*	<0.050	0.050	12/13/2019	ND	1.91	95.7	2.00	3.77	
Ethylbenzene*	0.237	0.050	12/13/2019	ND	1.93	96.5	2.00	3.47	
Total Xylenes*	0.323	0.150	12/13/2019	ND	5.61	93.5	6.00	3.34	
Total BTEX	0.560	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	12/12/2019	ND	432	108	400	0.00	
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	12/12/2019	ND	174	86.9	200	12.0	
DRO >C10-C28*	363	10.0	12/12/2019	ND	176	87.9	200	12.6	
EXT DRO >C28-C36	50.8	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	98.1	% 41-142	 N 27						
Surrogate: 1-Chlorooctadecane	117 % 37.6-147		7						

## 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 claims 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.

Celeg & Keine



## Analytical Results For:

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

Received:

12/11/2019

Sampling Date:

12/11/2019

Reported:

12/17/2019

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

HOOPER BATTERY

Sample ID: V6-4' (H904149-06)

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	12/13/2019	ND	1.95	97.5	2,00	3.09	
Toluene*	<0.050	0.050	12/13/2019	ND	1.91	95.7	2.00	3.77	
Ethylbenzene*	<0.050	0.050	12/13/2019	ND	1.93	96.5	2.00	3.47	
Total Xylenes*	<0.150	0.150	12/13/2019	ND	5.61	93.5	6.00	3.34	
Total BTEX	<0.300	0.300	12/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	12/12/2019	ND	432	108	400	0.00	
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	12/12/2019	ND	174	86.9	200	12.0	
DRO >C10-C28*	<10.0	10.0	12/12/2019	ND	176	87.9	200	12.6	
EXT DRO > C28-C36	<10.0	10.0	12/12/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142	?						
Surrogate: 1-Chlorooctadecane	114 % 37.6-147		7						

## 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 airing 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.

Celeg D. Keene



## **Notes and Definitions**

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.
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

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 valved 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.

Celeg D. Keene

an]	<del></del>	्रजा		ωI				_ F	<u>.</u> T						0	(la							
Relinquished by:	Relinquished by:	Relingu		pecia				7	2	B	S	R	9	LAB # (lab use only)	ORDER #:	(lab use only)							X
uishe	uishe	八厘		100	_	-			2	7	<	~	<		<b>7</b> 0 #	on	Ś	=	Ω	Ω	Ω	ъ	R.
d by:	by.	d by:		Special Instructions:				V6-4"	V5-4"	V4-4"	V3-2'	V2-4'	V1-4'		H404/49-		Sampler Signature;	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
														FIELD	414		, ann	lon	Iъ	ess: 1		7400	LABO Mariano
														FIELD CODE	7-		1	575-748-1	Artesia, NM 88210	104 South 4th Street	EOG Y Resources Inc.	Chase Settle	d, Hobi
				TPH										,,,,		ille	( )	£1471	M	th 44	Resou	èttle	DRIES DS, NIV
	Б	12-1		EXTE													1		88210	Stree	irces ir		1 8824
Date	Date	Date [2-11-19		NDEL													\				દ		0
	=	//: 30		TPH EXTENDED needed.										Beginning Depth									
Time	Time	S me		led.										Ending Depth									
Recei	Received	Received by						12/1	12/1	12/1	12/1	12/1	12/1										(505) 393-2326 FAX (505) 393-2476
ved by	ved by	ved by						12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019	12/11/2019	Date Sampled									93-232
Received by ELOT:	(	8				-			-								Ï	::					26 FA
	0							9:09 AM	9:07 AM	9:05 AM	9:01 AM	8:59 AM	8:57 AM	Time Sampled			ዋ	Fax					X (505
		E	-					MA	AM	MA	MA	M	M				e-mail:	Fax No:					393-
		2												Field Filtered				ï	1			1	247
		5		Ì					_		-7	->	->	Total #, of Containers			Chase				1		0)
		0						×	×	×	×	×	×	Ice	ارد		ase						
														HNO <sub>3</sub>	Preservation & # of			1			1		
				- 14										HCI	vatio		Settle@						
												_		H₂SO₄	- Qo		le		4		1		
														NaOH	-		Эe						
														Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Containers		8						
		2												None	iners		S9.						
D	Ę		2											Other ( Specify)	Ц		2	l		l	ļ	1	
Date	Date	11/19						S	S	S	S	S	s	DW=Drinking Water SL=Sludge GW = Groundwater S=Soll/Solid	Matrix		eogresources.com	Rep				-	
	_	5	1									_	U	NP=Non-Potable Specify Other TPH: 8015B	×	ТТ	com	Report Format:		Project Loc:	ט־	Project Name:	
ime	me	3		H		_	-	×	×	×	×	×	×	TPH: TX 1005 TX 1006	3		-	ğ	70	ect	Project #:	N.	
-	· ·		- < 0	0 -			-		-	-	-	+	+	Cations (Ca, Mg, Na, K)			1	77	PO #:	Loc	# £	me	
em	b b	usto	00	abo			-	-	-	-	+-	+	╁	Anions (CI, SO4, Alkalinity)		g	1	×		ľ	1	Ü	
pera	y Sa y Co	ody	SFr	rato	-	-	-	-	-	-	-	╁	-	SAR / ESP / CEC		TOTAL:	1	x Standard	205-0750	н			
tule	ampl	sea sea	ee c	Vic.					-		-	+-	-	Metals: As Ag Ba Cd Cr Pb Hg				and	750				
Up	by Sampler/Client Rep. ? by Counier? UPS	Custody seals on container Custody seals on cooler(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments:			-	_	100000		-	-	-		9 00	+1	Analyze For	ard					
on F	lient	100	ads	amil and		194	-	_		-	-	-	-	Volatiles	-	+1	VZP			-		Т	4
Rece	Rep	ntair	spac	nts:			-							Semivolatiles		+	P			ioo		100	
Temperature Upon Receipt 7, 3	0.2	Custody seals on cooler(s) Custody seals on cooler(s) Custody seals on cooler(s)	8.	\$				×	×	×	×	×	×	BTEX: 8021B				Н		Hooper Battery		Hooper Battery	
1	뮏	s)		Ü.	-		-				-	-		RCI				TRRP		Ba		Ba	
w				H				_	-	-				N.O.R.M.				ŭ		tter		tten	
	O	2 .	CV	2				×	×	×	×	×	×	Chlorides						~		×	
		3\< <b>≺</b> {	067 i dina 16 600						_	-	-	ļ.,	-	SAR						1			
•	Lone	**						_	_	_	_	1	-				-	NPDES			i		
ç	SYZ	**	ZZ	Z										RUSH TAT (Pre-Schedule) 24	, 48, 72	hrs		ES					
WORLD SATE	24	OF REAL PROPERTY.	MATERIAL PROPERTY.	100	_		_				1	4	1	The state of the s	- 1							_	_



January 15, 2020

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: HOOPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/09/20 15:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celeg D. Keena

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 CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

01/09/2020

Sampling Date: 01/09/2020

Reported:

01/15/2020

Project Name:

HOOPER BATTERY

Soil

Project Number:

NONE GIVEN

Sampling Type: Sampling Condition:

Sample Received By:

Cool & Intact Tamara Oldaker

Project Location:

HOOPER BATTERY

Sample ID: V 2 - 6' (H000085-01)

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	01/13/2020	ND	1.99	99.5	2.00	0.488	
Toluene*	<0.050	0.050	01/13/2020	ND	1.95	97.7	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	1.97	98.5	2.00	0.873	
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.75	95.8	6.00	0.803	
Total BTEX	<0.300	0.300	01/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIE	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/10/2020	ND	400	100	400	7.69	
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	01/13/2020	ND	185	92.5	200	9.10	
DRO >C10-C28*	453	10.0	01/13/2020	ND	189	94.7	200	11.6	
EXT DRO >C28-C36	91.2	10.0	01/13/2020	ND					
Surrogate: 1-Chlorooctane	96.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	116	% 37.6-14	17						

### 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 competion of the applicable service. In no event shall Cardinal be label 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.

Celley D. Keens



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

01/09/2020

Sampling Date:

01/09/2020

Reported:

01/15/2020

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN HOOPER BATTERY Sample Received By:

Tamara Oldaker

Sample ID: V 3 - 6' (H000085-02)

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	01/13/2020	ND	1.99	99.5	2,00	0.488	
Toluene*	<0.050	0.050	01/13/2020	ND	1.95	97.7	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	1.97	98.5	2.00	0.873	
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.75	95.8	6.00	0.803	
Total BTEX	<0.300	0.300	01/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/10/2020	ND	400	100	400	7.69	
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*	<50.0	50.0	01/13/2020	ND	185	92.5	200	9.10	
DRO >C10-C28*	876	50.0	01/13/2020	ND	189	94.7	200	11.6	
EXT DRO >C28-C36	236	50.0	01/13/2020	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142							
Surrogate: 1-Chlorooctadecane	133 9	6 37.6-14	7						

### 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 profits incurred by client, businessing, without a proposal of or related 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.

Celeg D. Keene



### Analytical Results For:

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

Received:

01/09/2020

Sampling Date:

01/09/2020

Reported:

01/15/2020

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Type: Sampling Condition:

Cool & Intact Tamara Oldaker

Project Number:

NONE GIVEN

Sample Received By:

eived By:

Project Location:

HOOPER BATTERY

### Sample ID: V 4 - 6' (H000085-03)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/13/2020	ND	1.99	99.5	2.00	0.488	
Toluene*	0.271	0.200	01/13/2020	ND	1.95	97.7	2.00	0.624	
Ethylbenzene*	0.785	0.200	01/13/2020	ND	1.97	98.5	2.00	0.873	
Total Xylenes*	4.35	0.600	01/13/2020	ND	5.75	95.8	6.00	0.803	
Total BTEX	5.41	1.20	01/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/10/2020	ND	400	100	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	130	10.0	01/13/2020	ND	185	92.5	200	9.10	
DRO >C10-C28*	5450	10.0	01/13/2020	ND	189	94.7	200	11.6	
EXT DRO >C28-C36	1010	10.0	01/13/2020	ND					
Surrogate: 1-Chlorooctane	110	% 41-142							
Surrogate: 1-Chlorooctadecane	246	% 37.6-14	7						

### 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 walved 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.

Celeg & Keene



### Analytical Results For:

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

Received:

01/09/2020

Reported:

01/15/2020

Project Name: Project Number: HOOPER BATTERY NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date:

01/09/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: V 5 - 6' (H000085-04)

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	01/13/2020	ND	1.99	99.5	2.00	0.488	
Toluene*	<0.050	0.050	01/13/2020	ND	1.95	97.7	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	1.97	98.5	2.00	0.873	
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.75	95.8	6.00	0.803	
Total BTEX	<0.300	0.300	01/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.9 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/10/2020	ND	400	100	400	7.69	
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	01/13/2020	ND	185	92.5	200	9.10	
DRO >C10-C28*	16.3	10.0	01/13/2020	ND	189	94.7	200	11.6	
EXT DRO >C28-C36	15.5	10.0	01/13/2020	ND					
Surrogate: 1-Chlorooctane	93.49	% 41-142	i k						
Surrogate: 1-Chlorooctadecane	100 %	6 37.6-14	7						

### 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 walved 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.





### Analytical Results For:

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

Received:

01/09/2020

01/09/2020

Reported: Project Name:

HOOPER BATTERY NONE GIVEN

Project Number: Project Location:

HOOPER BATTERY

Sampling Date:

te: 01/09/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: V 7 - 6' (H000085-05)

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	01/13/2020	ND	1.99	99.5	2.00	0.488	
Toluene*	<0.050	0.050	01/13/2020	ND	1.95	97.7	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	1.97	98.5	2.00	0.873	
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.75	95.8	6.00	0.803	
Total BTEX	<0.300	0.300	01/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/10/2020	ND	400	100	400	7.69	
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	01/13/2020	ND	185	92.5	200	9.10	
DRO >C10-C28*	188	10.0	01/13/2020	ND	189	94.7	200	11.6	
EXT DRO >C28-C36	19.2	10.0	01/13/2020	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142	!						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

### 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 walved 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.

Celeg & Keene



### Analytical Results For:

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

Received: Reported: 01/09/2020

01/15/2020

HOOPER BATTERY

Project Name: Project Number: Project Location:

NONE GIVEN HOOPER BATTERY

Sampling Date:

01/09/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: V 8 - 6' (H000085-06)

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	01/13/2020	ND	1.99	99.5	2.00	0.488	
Toluene*	<0.050	0.050	01/13/2020	ND	1.95	97.7	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	1.97	98.5	2.00	0.873	
Total Xylenes*	0.258	0.150	01/13/2020	ND	5.75	95.8	6.00	0.803	
Total BTEX	<0.300	0.300	01/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2020	ND	400	100	400	7.69	
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	01/13/2020	ND	185	92.5	200	9.10	
DRO >C10-C28*	336	10.0	01/13/2020	ND	189	94.7	200	11.6	
EXT DRO >C28-C36	22.7	10.0	01/13/2020	ND					
Surrogate: 1-Chlorooctane	96.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	115 9	% 37.6-14	7						

### 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.





### Analytical Results For:

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

Received: Reported: 01/09/2020

01/15/2020

Project Name: Project Number: HOOPER BATTERY NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date:

Sampling Type:

Sampling Condition:

Soil

Cool & Intact

01/09/2020

Sample Received By:

Tamara Oldaker

Sample ID: V 9 - 2' (H000085-07)

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	01/13/2020	ND	1.99	99.5	2.00	0.488	
Toluene*	<0.050	0.050	01/13/2020	ND	1.95	97.7	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	1.97	98.5	2.00	0.873	
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.75	95.8	6.00	0.803	
Total BTEX	<0,300	0.300	01/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	01/10/2020	ND	400	100	400	7.69	
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	01/13/2020	ND	185	92.5	200	9.10	
DRO >C10-C28*	950	10.0	01/13/2020	ND	189	94.7	200	11.6	
EXT DRO >C28-C36	124	10.0	01/13/2020	ND					
Surrogate: 1-Chlorooctane	90.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	124	% 37.6-14	7						

### 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.

Celey D. Keene





### Analytical Results For:

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

Received:

01/09/2020

Sampling Date:

01/09/2020

Reported:

01/15/2020

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

HOOPER BATTERY

Sample ID: V 10 - 6" (H000085-08)

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	01/13/2020	ND	1.99	99.5	2.00	0.488	
Toluene*	<0.050	0.050	01/13/2020	ND	1.95	97.7	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	1.97	98.5	2.00	0.873	
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.75	95.8	6.00	0.803	
Total BTEX	<0.300	0.300	01/13/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	01/10/2020	ND	400	100	400	7.69	
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*	10.4	10.0	01/13/2020	ND	185	92.5	200	9.10	
DRO >C10-C28*	1180	10.0	01/13/2020	ND	189	94.7	200	11.6	
EXT DRO >C28-C36	321	10.0	01/13/2020	ND					
Surrogate: 1-Chlorooctane	79.3	% 41-142							
Surrogate: 1-Chlorooctadecane	124 9	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLESE 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.



# Received by OCD: 3/5/2020 5:56:03 PM

### Notes and Definitions

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.

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

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 claims 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.

Celeg & Keene

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Drois	a	Page 11 of 11
Droiget Manager	ARDINAL L	Page
Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 883	

8240

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

	°C °C	00	1		Temperature Upon Receipt:	Rec	noq	e □	atur	npe	Ten		,	1.0		-	ţ	No.															,	
Star	Ex Lone Star	FedEx		뫋		UP		3	Cour	by			Time			Date		1									OT:	Received by ELOT:	0	Time	+	Date	hed by:	Relinquished by:
	z z	~			Ď.√	erec it Re	Deliv	Sample Hand Delivered by Sampler/Client Rep. ?	Ha	nple by s	Sar		Time			Date	D								-	1	,	Received by:	ดี	lime		Date	hed by:	Relinquished by:
		3		(S)	Custody seals on cooler(s)	onia	S C	als	y se	tod	Cus	"	5/2	1	6	5.20	3	1				1	1	N	10	1/2	11 04B	Mull	0	2.11	1	1-9-20	7	
		1				(8)	ine	onta	on c	eis	Lab		Time			Date	Ď						1	,	1	1	1	Received by:	Ō	V Time		Date	() () () () () () () () () () () () () (	Relinquished by
	R)	10			Ce?	Ispa	eac	VOCs Free of Headspace?	ree	CSF	Sol					F	+													!			3	
		1			3 %	ents	mm	Laboratory Comments:	Coy	ora	Lab																		ď.	eede	100	IPH EXIENUED needed	Special instructions:	opecial
																														_	<u> </u>			2
-																					-										-			
5		×			×	į į							×		S		- 1							×	_		8:19 AM	1/9/2020					V10-6"	00
-		×			×								×		S									×			8:16 AM	1/9/2020		L	-		1 V9-2'	3
		×			×								×		ဟ									×	>		8:13 AM	1/9/2020			-		V8-6"	1
		×			×								×		S									×	_		8:11 AM	1/9/2020			-		V7-6'	S,
_		×			×								×		ဟ									×	_		8:08 AM	1/9/2020			-		4 V5-6'	4
_		X			×								×		တ									×	_		8:05 AM	1/9/2020					WV4-61	w
		×			×								×		Ø									×	_		8:03 AM	1/9/2020			-		Z-V3-6'	12
_		×			×								×		S									×	_		8:00 AM	1/9/2020			-		V2-6'	1
Standard TAT	SAR RUSH TAT (Pre-Schedule) 24,	Chlorides	N.O.R.M.	RCI	BTEX: 8021B	Semivolaliles	Volatiles	Metals: As Ag Ba Cd Cr Pb Hg	SAR/ESP/CEC	Anions (CI, SO4, Alkalinity)	Cations (Ca, Mg, Na, K)	TPH: TX 1005 TX 1006	TPH: 8015B	NP=Non-Potable Specify Other	GW = Groundwater S=SolVSolid	DW=Drinking Water SL=Sludge	Other ( Specify)	None	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NaOH	H <sub>2</sub> SO <sub>4</sub>	HCI	HNO <sub>3</sub>	Ice	Total #. of Containers	Field Fillered	Time Sampled	Date Sampled	Ending Depth	Beginning Depth	TOO LIGHT 10 MARK 1 WALL	FIELD CODE	<b>是</b>	LAB # (lab use only)
Ť	48,		į.					Se				1		1	100	T,	1							T							-		110	100000000000000000000000000000000000000
e=2 %	72 h								- <u>[</u>	ō				<b>`</b>	Matrix	2	1	ino.	2	4	8	Preservation & # of Co.	Proce	7								22	(# そのの20	ORDER #:
	rs																															1		(100,000)
-		1			ß	Analyze For:	alyz	T		3	d																						onky	(Jah use only)
ı													13	gresources.com	es.	170	108	le.	500	0	Settle@eo	Se		Chase	0		e-mail:					THE ST	Sampler Signature:	
S	NPDES	_	õ	TRRP		11000	D,	x Standard	Star	×	-	Report Format:	For	ort	Rep	-						-				4	Fax No:				$\setminus$	575-748-3473	Telephone No:	
i.i.								18	PO #: 205-0750	205	.#	РО				(9.0)																Artesia, NM 88210	City/State/Zip:	
		1			V																											W. W.	?	
		Ž	atte	B	Hooper Battery	Но					ŭ	Project Loc:	ojec	P		• (**																104 South 4th Street	Company Address: 104 South 4th Street	
Ľ											#	Project #:	Pro			•																EOG Y Resources Inc.	Company Name	
H		yry	atte	B	Hooper Battery	공	-				ne:	Project Name:	ECT.	Proj		•																Chase Settle	Project Manager:	



January 23, 2020

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: HOOPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/20/20 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celeg D. Keena

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 CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

01/20/2020

Sampling Date:

01/20/2020

Reported:

01/23/2020

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

NONE GIVEN HOOPER BATTERY

Project Location: HC

Sample ID: V 4 - 6.5' (H000195-01)

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	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	0.258	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/23/2020	ND	400	100	400	3.92	
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	01/21/2020	ND	204	102	200	0.615	
DRO >C10-C28*	52.2	10.0	01/21/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	99.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

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.





### Analytical Results For:

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

Received:

01/20/2020

Sampling Date:

01/20/2020

Reported:

01/23/2020

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

HOOPER BATTERY

Sample Received By:

Tamara Oldaker

Sample ID: V 10 - 8" (H000195-02)

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	01/21/2020	ND	1.88	94.2	2.00	3.12	
Toluene*	<0.050	0.050	01/21/2020	ND	1.95	97.4	2.00	2.86	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.94	96.9	2.00	2.76	
Total Xylenes*	0.239	0.150	01/21/2020	ND	5.76	96.0	6.00	2.53	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	91.8	% 73.3-12	9					=	
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	01/23/2020	ND	400	100	400	3.92	
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	01/21/2020	ND	204	102	200	0.615	
DRO >C10-C28*	161	10.0	01/21/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	45.2	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	90.4	% 41-142							
Surrogate: 1-Chlorooctadecane	104 9	% 37.6-14	7						

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 valved 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 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.





### Analytical Results For:

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

Received:

01/20/2020

01/23/2020

Reported: Project Name:

HOOPER BATTERY

Project Number: Project Location: NONE GIVEN HOOPER BATTERY Sampling Date:

01/20/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: V 11 - 8" (H000195-03)

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	01/21/2020	ND	1.92	96.1	2,00	0.934	
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/23/2020	ND	400	100	400	3.92	
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	01/21/2020	ND	204	102	200	0.615	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	96.3	% 41-142	)						
Surrogate: 1-Chlorooctadecane	102 5	% 37.6-14	7						

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 walved 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.

Celley D. Keens



### **Notes and Definitions**

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

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

Cardinal Laboratories

\*=Accredited Analyte

PLEXE 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 Cleardinal 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 subdidaries, affiliables or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celleg D. Keens

Received by OCD: 3/5/2020 5:56:03 PM

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

100	1
M	
<b>1</b>	U

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

		15						and the same			_					-	_								
Relinquished by:	Relinquished by:		Relinguistred		Special							w	e	1	LAB # (lab use only)	ロスリロス 井		(lab use only)							
hed by:	hed by:		(A)		Special Instructions:							V11-8"	V10-8"	V4-6.5'				only)		Sampler Signature:	Telephone No:	City/State/Zip:	Company Addr	Company Name	Project Manager:
					TPH										FIELD CODE	7000170	700		1	ure:	575-748-1471	Artesia, NM	Company Address: 104 South 4th Street	EOG Y Resources Inc.	Chase Settle
Date	Date	129-20	Date		TPH EXTENDED needed											h	ĝ					88210	Street	irces Inc.	
ت ۔		2			nee										Beginning Depth					1	d				
Time	Time	8.5	Time		ded.										Ending Depth	1				.,					
Received by ELOT:	Received by:		Received by/									1/20/2020	1/20/2020	1/20/2020	Date Sampled										
OT:		wana (										8:26 AM	8:23 AM	8:20 AM	Time Sampled					e-mail:	Fax No:				
		7			Ì										Field Filtered	]				_	f				
		12	1									7		_	Total #. of Containers	Ļ	7			C C	1			1	
		16										×	×	×	Ice	ر ا				Chase					
		1			ļ		_			_				_	HNO <sub>3</sub>	resen									
		K			ļ		-	Ш	_	_	_	_	_	_	HCI	Preservation & # of Co				Settle@eo					1
		1	*		ŀ		-	$\vdash$			-		_	-	H <sub>2</sub> SO <sub>4</sub> NaOH	ρο 4±				e	Ì			1	1
			- [		ŀ		+	$\vdash$		-	-				Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Ş									
W IDOG			-		ŀ		-	H		$\dashv$	-	-			None	ntainers				gre					
		1			ŀ		+-	H	-	$\dashv$	-	-	_		Other ( Specify)	ă				OS		1		1	1
Date	Date	20-20	Date		ŀ			Н	-	-		-			DW=Drinking Water SL=Sludge	†	1			gresources.com	Į,	L		.!	alto
		ي										S	ဟ	ဟ	GW = Groundwater S=Soll/Solld	Matrix				es.	Rep				
		10-11													NP=Non-Potable Specify Other	×	L	_	_	င္သ	Report Format:		Pr		Project Name:
Time	lime	12:8	Time		L							×	×	×	TPH: 8015B		-			3	OII		Project Loc:	Pro	55
da V										_				L.	TPH: TX 1005 TX 1006		4	Н	١		nat	PO #:	Ē	Project #:	Vam
Terr	San	Cus	Labe	Sarr			<u> </u>		_	_					Cations (Ca, Mg, Na, K)		١.		1		1	# 10	ŭ	<b>#</b>	ë.
pera	Sample Hand Delivered by Sampler/Client Rep by Courier? UPS	lody	Labels on container(s)	ple 's Fr	_aboratory Comments:		_		_		_			_	Anions (CI, SO4, Alkalinily)	-	TOTAL:	TCLP:	1		x Standard	205-0750	E	·	
ature	Han ampl ourie	sea	200	Con	ર્		-		_	4	-			_	SAR / ESP / CEC	Po.	F.	Ġ.			tano	)750	l'		
무	2 E D	Is or	ntail	taine	읽		-		-	-	-	_	-	_	Metals: As Ag Ba Cd Cr Pb Hg Volatiles	96	┝	+	Analyze		ard				
9 7	lient	8 8	ner(s	ers in	me l	-4-	-		-	-	$\dashv$	_	_	-	Semivolaliles	_	+	Н	yze				ar.		-
ece	nple Hand Delivered by Sampler/Client Rep.? by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s)	<u>۳</u>	Sample Containers Intact?  VOCs Free of Headspace?	is:				$\dashv$	_	$\dashv$	_	_	×	BTEX: 8021B		H	H	For		П		Hooper Battery		Hooper Battery
jot.	 D	s)		3 3	1		-		-	-	+	× .	×		RCI			1			7		эег		per
H	물				1		-	2.0	+		$\dashv$				N.O.R.M.			- 1			TRRP		Bat		Bat
Temperature Upon Receipt: #115	Z)	3		V.	1		-	H	+	$\dashv$		×	×	×	Chlorides	-							tery		tery
	₩ 88	<b>≺</b> B	RI	86	-					-		- 02	5/12/		SAR						П		E		
1.900			7		1		1		1	-											NPDES		9		
300	N Lone Star	zz	z:	zz	t	_	1		_						RUSH TAT (Pro-Schedule) 24,	48, 7	2 hr	s			DES				
(155) (1)	र्घ				t	1			7	7		×	×	×	Standard TAT	Ī		1247			U)				



January 23, 2020

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: HOOPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/20/20 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celeg D. Keine

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 CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

01/20/2020

Reported:

01/23/2020

Project Name: Project Number: HOOPER BATTERY

Project Location:

NONE GIVEN

HOOPER BATTERY

Sampling Date:

01/20/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 1 (H000196-01)

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	01/21/2020	ND	1.92	96.1	2.00	0.934	
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	89.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/21/2020	ND	204	102	200	0.615	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	97.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

### 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.





### Analytical Results For:

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

Received:

01/20/2020

01/20/2020

Reported:

01/23/2020

Coil

Project Name:

HOOPER BATTERY

Soil

Project Number:

NONE GIVEN

Sampling Condition: Sample Received By:

Sampling Date:

Sampling Type:

Cool & Intact

Project Location:

HOOPER BATTERY

Tamara Oldaker

Sample ID: H 2 (H000196-02)

BTEX 8021B	mg/	kg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2020	ND	1.92	96.1	2.00	0.934	
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIE	93.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/21/2020	ND	204	102	200	0.615	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	99.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients 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 walved 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.





### Analytical Results For:

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

Received:

Reported:

01/23/2020

Project Name:

HOOPER BATTERY NONE GIVEN

HOOPER BATTERY

Project Number:

Project Location:

01/20/2020

Sampling Date:

01/20/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 3 (H000196-03)

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	01/21/2020	ND	1.92	96.1	2.00	0.934	
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/21/2020	ND	204	102	200	0.615	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	89.4	% 41-142	)						
Surrogate: 1-Chlorooctadecane	94.6	% 37.6-14	7						

### 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.





### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

01/20/2020

Reported:

01/23/2020

Project Name: Project Number: HOOPER BATTERY NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date:

01/20/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 4 (H000196-04)

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	01/21/2020	ND	1.92	96.1	2.00	0.934	
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	92.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/21/2020	ND	204	102	200	0.615	
DRO >C10-C28*	<10.0	10.0	01/21/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/21/2020	ND					
Surrogate: 1-Chlorooctane	93.3	% 41-142							
Surrogate: 1-Chlorooctadecane	97.1	% 37.6-14	7						

### 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 subcidairies, 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.





### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 (575) 748-4131

Fax To:

Received:

01/20/2020 01/23/2020

Reported:

HOOPER BATTERY

Project Name: Project Number:

NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date:

01/20/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: H 5 (H000196-05)

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	01/21/2020	ND	1.92	96.1	2.00	0.934	
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/22/2020	ND	204	102	200	0.615	
DRO >C10-C28*	44.5	10.0	01/22/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND					
Surrogate: 1-Chlorooctane	86.0	% 41-14.	2						
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-1-	17						

### 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.





### Analytical Results For:

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

Received:

01/20/2020

Reported: Project Name: 01/23/2020

Project Number: Project Location: HOOPER BATTERY NONE GIVEN

HOOPER BATTERY

Sampling Date:

01/20/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 6 (H000196-06)

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	01/21/2020	ND	1.92	96.1	2.00	0.934	
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/22/2020	ND	204	102	200	0.615	
DRO >C10-C28*	<10.0	10.0	01/22/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND					
Surrogate: 1-Chlorooctane	82,2	% 41-142	!						
Surrogate: 1-Chlorooctadecane	85.7	% 37.6-14	7						

\*=Accredited Analyte Cardinal Laboratories

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 valved 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.





### Analytical Results For:

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

Received: Reported: 01/20/2020

01/23/2020

Project Name: Project Number: HOOPER BATTERY NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date:

Date: 01/20/2020

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: H 7 (H000196-07)

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	01/21/2020	ND	1.92	96.1	2.00	0.934	
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	91.65	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/22/2020	ND	204	102	200	0.615	
DRO >C10-C28*	218	10.0	01/22/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	103	10.0	01/22/2020	ND					
Surrogate: 1-Chlorooctane	101 9	% 41-14.	2						
Surrogate: 1-Chlorooctadecane	128 5	% 37.6-1-	17						

### 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.

Celey D. Keene



### Analytical Results For:

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

Fax To:

01/20/2020

Reported: 01/23/2020

Project Name: HOOPER BATTERY
Project Number: NONE GIVEN

Project Location: HOOPER BATTERY

Sampling Date:

01/20/2020

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

### Sample ID: H 8 (H000196-08)

Received:

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	01/21/2020	ND	1.92	96.1	2.00	0.934	
Toluene*	<0.050	0.050	01/21/2020	ND	2.01	101	2.00	0.236	
Ethylbenzene*	<0.050	0.050	01/21/2020	ND	1.97	98.4	2.00	0.0633	
Total Xylenes*	<0.150	0.150	01/21/2020	ND	5.82	96.9	6.00	0.00936	
Total BTEX	<0.300	0.300	01/21/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/22/2020	ND	204	102	200	0.615	
DRO >C10-C28*	<10.0	10.0	01/22/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND					
Surrogate: 1-Chlorooctane	96.2	% 41-142							
Surrogate: 1-Chlorooctadecane	100 9	6 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients 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 inclined above. This report shall not be reproduced except in full with written approval of Cardinal laboratories.

Celeg D. Keene



### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

01/20/2020

Sampling Date:

01/20/2020

Reported:

01/23/2020

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

HOOPER BATTERY

### Sample ID: H 9 (H000196-09)

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	01/22/2020	ND	1.95	97.3	2.00	5.89	
Toluene*	<0.050	0.050	01/22/2020	ND	1.94	97.0	2.00	6.20	
Ethylbenzene*	<0.050	0.050	01/22/2020	ND	1.96	98.2	2.00	6.41	
Total Xylenes*	<0.150	0.150	01/22/2020	ND	5.73	95.4	6.00	6.75	
Total BTEX	<0.300	0.300	01/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/22/2020	ND	204	102	200	0.615	
DRO >C10-C28*	133	10.0	01/22/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	58.7	10.0	01/22/2020	ND					
Surrogate: 1-Chlorooctane	102 9	6 41-142							
Surrogate: 1-Chlorooctadecane	1149	6 37.6-14	7						

### 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 walved 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 incrured 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.

Celey & Keene



### Analytical Results For:

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

Received: Reported: 01/20/2020

01/23/2020

Project Name: Project Number: HOOPER BATTERY NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date:

01/20/2020

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: H 10 (H000196-10)

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	01/22/2020	ND	1.95	97.3	2.00	5.89	
Toluene*	<0.050	0.050	01/22/2020	ND	1.94	97.0	2.00	6.20	
Ethylbenzene*	<0.050	0.050	01/22/2020	ND	1.96	98.2	2.00	6.41	
Total Xylenes*	<0.150	0.150	01/22/2020	ND	5.73	95.4	6.00	6.75	
Total BTEX	<0.300	0.300	01/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	01/23/2020	ND	432	108	400	0.00	
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	01/22/2020	ND	204	102	200	0.615	
DRO >C10-C28*	<10.0	10.0	01/22/2020	ND	213	106	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND					
Surrogate: 1-Chlorooctane	94.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.2	% 37.6-14	17						

### 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.





### Analytical Results For:

EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

01/20/2020

Reported:

01/23/2020

Project Name: Project Number: HOOPER BATTERY NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date: Sampling Type:

01/20/2020

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Sample ID: H 11 (H000196-11)

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	01/22/2020	ND	1.95	97.3	2.00	5.89	
Toluene*	<0.050	0.050	01/22/2020	ND	1.94	97.0	2.00	6.20	
Ethylbenzene*	< 0.050	0.050	01/22/2020	ND	1.96	98.2	2.00	6.41	
Total Xylenes*	<0.150	0.150	01/22/2020	ND	5.73	95.4	6.00	6.75	
Total BTEX	<0.300	0.300	01/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.9 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/23/2020	ND	416	104	400	3.92	
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	01/22/2020	ND	206	103	200	1.03	
DRO >C10-C28*	12.7	10.0	01/22/2020	ND	218	109	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND					
Surrogate: 1-Chlorooctane	106 %	6 41-142							
Surrogate: 1-Chlorooctadecane	110%	6 37.6-14	7						

### 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 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.





### Analytical Results For:

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

Received:

01/20/2020

Sampling Date:

01/20/2020

Reported:

01/23/2020

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

HOOPER BATTERY

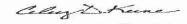
Sample ID: H 12 (H000196-12)

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	01/22/2020	ND	1.95	97.3	2.00	5.89	
Toluene*	<0.050	0.050	01/22/2020	ND	1.94	97.0	2.00	6.20	
Ethylbenzene*	<0.050	0.050	01/22/2020	ND	1.96	98.2	2,00	6.41	
Total Xylenes*	<0.150	0.150	01/22/2020	ND	5.73	95.4	6.00	6.75	
Total BTEX	<0.300	0.300	01/22/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/23/2020	ND	416	104	400	3.92	
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	01/22/2020	ND	206	103	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/22/2020	ND	218	109	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	01/22/2020	ND					
Surrogate: 1-Chlorooctane	90.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	93.4	% 37.6-14	17						

### 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.





### **Notes and Definitions**

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

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

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients 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 claims 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.

Celeg D. Keene

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

No.	The same
M	
X.	1
N. W.	и

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

-		-1		-1			_	_	_	_	_	_	_	_	_	_		10		$\overline{}$							
remiquence by.	Relinquished by	Dolinariah	Kelinquished by:	Dolina inh		_	/0	e e	<i>∞</i>	7	6	5			2	1	LAB # (lab use only)	ORDER #:		(lab use only)	(0	_	0	0	0	70	
7			\	i.		struc	H10	H9	품	H7	H6	돐	4	Н3	H2	王		***		3	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address: 104 South 4th Street	Company Name	Project Manager:	
	\		/			rion On												I			bler	hon	State	bany	oany	St M	
	1	H	) /	1	,	ž		ľ										8			Sign	ē	ZZ	Ad	Na	lana	
	1	1	Ţ	I		١											-	00194			natu	9	Ċ.	dre	me	ıger	
	.	10	1			1											FIELD CODE	3	5		<u>'ë</u>		4.5	.ss			
	C <sub>2</sub>	1	A	1		1											Q		•	$\setminus$	/	575-748-1474	Arte	104	EOG Y Resources Inc.	Chase Settle	
	\	1	//			4		Ī									ODE			. [ ]		45.	sia,	Sou	1 Y	se S	
	1 (	$\cap$	١.`			ğ						1					- Anne	ŀ				E	N N	th 4:	eso	ettle	
		T	V	1	ļ	TPH EXTENDED peeded															('\	1/2	Artesia, NM 88210	h St	UT CE		
ç	Date Calc	3	Date	3	i	7												-	_	_		1	0	teet.	sin		
ŧ	ชี สี	Ď	กิ		- 1	Ž															1	1			,,		
	-	+		1	-	7				-	┢	-			-		S. J. Jan D. H.	1			۱ ۱	()					
	d :	4	=	1	- 5	000											Beginning Depth					V					
ē	Time		ā		-	2											Ending Depth					١					
VIII II S	n 2	o V	7			ŀ				-	-	-			-	-		┨				1)					
Necessary Pro 1.		- Junio	Received by				1/2	1/2	1/20/2020	1/20/2020	1/20/2020	1/20/2020	1/20/2020	1/20/2020	1/20/2020	1/20/2020						'					
်						1	1/20/2020	1/20/2020	0/2(	0/2	0/20	0/20	220	0/20	220	220	Date Sampled										
2	§	100	y.				)20	)20	20	20	20	20	20	20	20	20											
Š	3	an	7			t	<u> </u>											1									
		6					8:53 AM	8:50 AM	8:47 AM	8:45 AM	8:42 AM	8:40 AM	8:37 AM	8:35 AM	8:33 AM	8:31 AM	Time Sampled				m	70					
	n.	1	1			1	MA 8	A	ΑN	Ą	A	AM	À	A	A	A	Time Gampied				e-mail:	Fax No:					
			M			L	_	3		_	_		_	_			No secondo a la maria de la maria della maria della de	-			Ħ	9					
			91	1		1								100			Field Fillered	┨			10	Ĺ					
	(	(	X			F	-7		>	->	>	1	->	_	-7	->	Total #. of Containers	╁	1		Chase						
		1	11			ŀ	×	×	×	×	×	×	×	×	×	×	Ice HNO <sub>3</sub>	Pre			esse						
		ſ	0			+			-	-	H	-				-	HCI	Serva			က္ဆ						
						ŀ	_	-	-	- 1, -		┢	-	_	-		H <sub>2</sub> SO <sub>4</sub>	Ħ			III.						
1,4		ı				ł						-					NaOH	Preservation & # of Co			Settle@ec						
		1		l		ŀ					<u> </u>						Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
	n	,		1		ľ						T		T			None	ntainers			lie						
- 5	2 2		5 5	?		ľ											Other ( Specify)	ľ			nos						
ē	Date Care	5	3 0	5		ſ											DW=Drinking Water SL=Sludge	M			927	70					
e-E-V		-	5'				S	S	S	S	S	S	S	S	S	S	GW = Groundwater S=Soil/Solid	Matrix			S.C	lepo				Ţ	
	<u> </u>	10	<u> </u>	1		ŀ	J	_		×	×	×	×	×	×	×	NP≃Non-Potable Specify Other  TPH: 8015B	L	Т	Т	gresources.com	Report Format:		Proj	יסי	Project Name:	
6			26.67	3		ŀ	×	×	×	_		^	^	_		^	TPH: TX 1005 TX 1006	-	Н	1		Ĭ	.0	Project Loc:	Project #:	N N	
ㅋ	٥			\ \	S	-	_		_	$\vdash$		-		-			Cations (Ca, Mg, Na, K)	-	H	1		ř	PO#	Loc.	Ω #	me.	
du	P P P	0	rsto	S	i i	3											Anions (CI, SO4, Alkalinity)		7	4		×			1		
eratu	by Sampler/Client Rep. by Courier? UPS	1	Custody seals on container Custody seals on containe	VUCs Free of Headspace?	Sample Containers Intact?	aboratory Comments:											SAR / ESP / CEC		TOTAL:	TCLP		x Standard	205-0750				
le C	ner;	2	eals	9	ntai	٦											Metals: As Ag Ba Cd Cr Pb Hg	Se		_ ≥		ndar	55				
nod	Clie	2 5	on c	leac	ners												Volatiles			Analyze	ł	O.					
Rec	UP:		onta	ispa	Inta	Park											Semivolatiles			— FOT:				픙		H <sub>O</sub>	
Temperature Upon Receipt #//3		(0)	Labels on container(s) Custody seals on container(s) Custody seals on container(s)	Ce?	हु ह	•	×	×	×	×	×	×	×	X	×	×	BTEX: 8021B					Ц		Hooper Battery		Hooper Battery	
H	足		(s)	1													RCI					] TRRP		r Ba		r Ba	
13	1							0,000		70						200	N.O.R.M.					-0		itter		tter	
10	₩ 8	4	CC	C	10	-	×	×	×	×	×	×	×	×	×	×	Chlorides	_	31102	7				×		×	
1		יונ	·	J.		-	14		-	_	-		-		-	-	SAR	-		-		Z					
1.900	N Lone Star	2 2	z z z	ZZ	z	H	-		_	-	_	_	-	-	_		RUSH TAT (Pre-Schedule) 24,	48, 7	2 hrs			NPDES					
``	Star			ľ		-	×	×	×	×	×	×	×	×	×	×	Standard TAT				1	S					
		. Pl	1 12	4.1	100	- 1	6.3			1.	100	1.05	5.00	N. N.	M 51	L 1		J					1		•	1	

### Received by OCD: 3/5/2020 5:56:03 PM

6	2
A	
	a

### ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

1000	Temperature Upon Receipt: #//3	#	Ď,	ece)	9 7	dD 6	atun	nper	Ten	Ф	me	-10,	×1	Date	<u> </u>	17.									בניטו.	veceived by ELOT.	ē	=	Calc	I.E.			da
FedEx Lone Star		뫋		PS PS	lient	Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Har	hy s by s	Sar		Time			Date		-							(			Received by:	<b>3</b>	Time	Date of			hed b	Relinguished by:
z z z		۳	s)	s) ntair oler(	ner(	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	sea sea	tody	Cus		72:06	_	6	Date 20	\$ -	_						21	18	The state of the s	Ord O	Received by:	50.00	Ů.	1-20-20	1-2:	1		No. No.
z z			3 3	ntac	ers I	Sample Containers Intact? VOCs Free of Headspace?	Cor	nple Cs F	Vo																		B	1	Oats.		)		
	/ /   g		34	nts:	ıme	Laboratory Comments:	Violy	ora	Lab										- ()	1							ed.	need	ENDED	TPH EXTENDED needed	ctions:	Instru	Special Instructions:
		_		_											-					-	-		-										
	-	+	-		-	-								+	+	+	+	-	+	+	+	_	-										
			$\vdash$											$\vdash$			-	-	-	-	+	-								+	-		
	$\dashv$	-	-	_	$\dashv$	_								$\dashv$	-			-														10.00	
			_	_	-									$\dashv$	-	-	$\dashv$	-	-	-		_	_										
		-	_	_	$\dashv$	4						4		-	$\dashv$	-	$\dashv$		_	_	_	$\dashv$	_										
	-	$\dashv$	-	-	_	_								-	-	-				_	_		_		-								
	×		×								×	A. Comp.	S	-					-	_	×	-	24	AM	(975)	1/20/2020						H12	12
	-	-	100	-	-						×		S	_			-				×	1   3		3 AM	0 8:56 AM	1/20/2020						王1	H
SAR RUSH TAT (Pre-Schedule) 24, 4 Slandard TAT	N.O.R.M. Chlorides	RCI	BTEX: 8021B	Semivolatiles	Volatiles	Melals: As Ag Ba Cd Cr Pb Hg	SAR/ESP/CEC	Anions (Cl, SO4, Alkalinity)	Calions (Ca, Mg, Na, K)	TPH: TX 1005 TX 1006	TPH: 8015B	NP=Non-Potable Specify Other	GW = Groundwater S=Soil/Solid	DW=Drinking Water SL=Studge	Other ( Specify)	None	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NaOH	H₂SO₄	HCI	Ice HNO <sub>3</sub>	Total #, of Containers	Field Filtered		Time Sampled	Date Sampled	Ending Depth	Beginning Depth		FIELD CODE	2	Second Se	LAB # (lab use only)
48, 72	- 4-11			_		Se						Ŗ	Matrix		Sua	ntainers	- Ç	\$# C	ation	Preservation & # of Cor	P	+	-						A	other	16610004	- **	באטווא ווי
? hrs				$\dashv$			P.	TOTAL:			П											1								18	1/200		
	-	-	⊣"	<b>-</b>  3	Analyze For:	- Ang	ICLP:	님			T																		<u> </u>			only)	(lab use only)
											Ĭ	gresources.com	es	UTC	OSe	gre	)eo	ea	Settle@eo		Chase	340	10	e-mail:	_ 				1		Sampler Signature:	San	
NPDES	10	TRRP	Ц		-	× Standard	Stan	×		mat	Report Format:	port	Re	l									Ĩ	Fax No:	ا ا				$\left(\right)$	575-748-1471	Telephone No:	Tele	
						0	075	PO #: 205-0750	.#	Р				1															10	Artesia, NM 88210	City/State/Zip:	City	
	Hooper Battery	Ba	per	Hoc					900	ST.	Project Loc:	ט		4															eet	Company Address: 104 South 4th Street	ıpany Addres	Con	
									#	Project #:	Pro			ļ.															lnc.	EOG Y Resources Inc.	Company Name	Con	
	Hooper Battery	Ba	)per	Hoc					ne:	Nar	Project Name:	Pro		L																Chase Settle	Project Manager.	Proj	



February 04, 2020

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: HOOPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/29/20 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celeg 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



### Analytical Results For:

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

Received:

01/29/2020

Sampling Date:

01/28/2020

Reported:

02/04/2020

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

HOOPER BATTERY

Sample ID: V 10 - 1' (H000280-01)

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	01/30/2020	ND	1.99	99.4	2.00	10.2	
Toluene*	<0.050	0.050	01/30/2020	ND	2.03	101	2.00	9.92	
Ethylbenzene*	<0.050	0.050	01/30/2020	ND	1.96	98.1	2.00	9.78	
Total Xylenes*	<0.150	0.150	01/30/2020	ND	5.89	98.2	6.00	9.82	
Total BTEX	<0.300	0.300	01/30/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/31/2020	ND	416	104	400	3.77	
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	01/30/2020	ND	201	101	200	0.206	
DRO >C10-C28*	<10.0	10.0	01/30/2020	ND	217	108	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	01/30/2020	ND					
Surrogate: 1-Chlorooctane	68.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	70.2	% 37.6-14	7						

### 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 valved 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.

Celey D. Keene



### **Notes and Definitions**

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

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 whatoever 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 subclidaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celey & Keens

Relinquished by:

Date

Time

Received by ELOT:

Date

Time

Temperature Upon Receipt:

30.00

റ്

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Page 4 of 4

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

-			_				_	1		_	1				1-	_						
Relinquished by	Relinquished by:	Relinguished		Special Instructions:									1	LAB # (lab use only)	OKUTK #	(lab use only)						
유	shed	V &		Ins	_	1	-				-		<		17	on)	တ္တ	=	Ω	Ω	Ω	P
2	9	, \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	unc									V10-1'	II	٠.	S	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address: 104 South 4th Street	Company Name	Project Manager:
	/	$\Lambda$		tion									=		1		oler	hor	òtat	any	any	<b>≥</b>
-		NA		s:											6		Sig	ē	Z	A	Z	lan
		1													08 8 000	\$	nati	Ö.	Ö	dre	ame	age
1		1												#	0	•	ure			SSS	(U	ñ
														FIELD CODE	N	)	W.	57	2	13	lm	lΩ
١														Ö	8		11)	575-748-147	tesia	S	မြိ	Chase Settle
١		1		큠										m	)		1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Z.	outh	lg g	Se
				H													(1,1)	4	Artesia, NM 88210	4	EOG Y Resources Inc.	E E
		1.2	- 1	X											H	1 - 4	$\mathbb{V}$	Y	821	Str	Seo	
Date	Date	Date 9-2		핃											-		N	Y	0	ğ	ē	
"		Date 1-29-20		品																1	1	
1		_		TPH EXTENDED needed										Beginning Depth				\				
텕	딝	тı. /::/		eed										Beginning Depth				1		1		
me	He He	Time 1:45		ed										Ending Depth								1
-						+	_	-		_		_									1	
Received by ELOT	Received by:	Received by:											1/2		ı					1	1	
NO.	ived	ived											28/2	Date Sampled	ı							
₹	by:	N.S.											1/28/2020									
3		1/2		4		+-	-			_	_		_		-		l	I				1
1		8											œ		ı						1	
1		th the											8:00 AM	Time Sampled	1		ዋ	Εg				1
1		2											MA		1		e-mail:	Fax No:	ľ		1	
1		11	-			-	-	_				-	_	Fleld Fillered	1		Ħ	9				
1		11		ł		+		-	-			-	_	Total #. of Containers	1		10	1	1		1	
ı		11/2		1		+-	-	_	_	_	_	_		Ice	┝	1	Chase					
1		N.		ł		1-		-				-	×	HNO <sub>3</sub>	Pre	1	Se					1
1		N		ł	-	+	-			-	_			HCI	Preservation & # of Co	l					1	
1		10,		ł		+-	-	-						H₂SO₄	ation		Settle@ec	3			1	
1		4		ł	_	-	H	_			-	_	-	NaOH	ζο #±		ea				1	
1				ŀ		+	-	_	_	_	-		-	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		1	)ec				1	
+				ł	-	+	-	_	-		_	-		None	ntainers		gr	1				
	_	T		ł	-	+-	-			-	1 - 2 -	_		Olher ( Specify)	ers		SS			l.	1	
1000	Date	Date - 35-26		-	-	+	-		-	_	-		_	DW=Drinking Water SL=Sludge	+		gresources.com	1	1	I	Ī	Ì
	758	3												GW = Groundwater S=Soil/Solid	Matrix		Sec	Re				
†		_												NP=Non-Potable Specify Other	₹.		2	род		v		Pro
	Time	Time		Ī									×	TPH: 8015B			Ĭ	Report Format:		Project Loc:	P	Project Name:
P	Ф	20												TPH: TX 1005 TX 1006				ma	ק	ğ	Project #:	Na
•	Sa	5 5 분	Sal	La										Cations (Ca, Mg, Na, K)				1T	PO #:	S	#	me:
	A P D	_abels on container(s) Custody seals on cont Custody seals on coole	Cs	Soora				.1						Anions (CI, SO4, Alkalinity)		10.1		×	205			
	Sam	y se	Free	ton				a						SAR / ESP / CEC		TCLP:		× Standard	205-0750			
	per ler	cont lals	ntai of I	3										Metals: As Ag Ba Cd Cr Pb Hg	Se		Þ	nda	8		1	Ī
	Clie	aine on c	ners	mm										Volatiles	- 10		alv	а.				
•	Sample Hand Delivered by Sampler/Client Rep. ?	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:										Semivolatiles			Analyze For:			프		표
	N. B. C.	ine (S)	act?	83									×	BTEX: 8021B			9			ope		ope
	P N	(s)												RCI				]TRRP		er B		er B
			3											N.O.R.M.				공		Hooper Battery		Hooper Battery
,	Fed						71		- 1				×	Chlorides						ery		ery.
į	FedEx Lone Star	<88	60											SAR								
-																		NPDES				
(	SZZ	zzz	ZZ											RUSH TAT (Pre-Schedule) 24, 4	8, 72	2 hrs	]	SEC				
!	4		18			1000							×	Standard TAT								





February 04, 2020

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: HOOPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/29/20 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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. Keens

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 CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

01/29/2020

Reported:

02/04/2020 Project Name: HOOPER BATTERY NONE GIVEN

Project Number: Project Location:

HOOPER BATTERY

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 01/28/2020 Soil

Cool & Intact

Tamara Oldaker

### Sample ID: H 1- 2 (H000281-01)

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	01/31/2020	ND	1.99	99.4	2.00	10.2	
Toluene*	<0.050	0.050	01/31/2020	ND	2.03	101	2.00	9.92	
Ethylbenzene*	<0.050	0.050	01/31/2020	ND	1.96	98.1	2.00	9.78	
Total Xylenes*	<0.150	0.150	01/31/2020	ND	5.89	98.2	6.00	9.82	
Total BTEX	<0.300	0.300	01/31/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2020	ND	416	104	400	3.77	
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	01/30/2020	ND	201	101	200	0.206	
DRO >C10-C28*	<10.0	10.0	01/30/2020	ND	217	108	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	01/30/2020	ND					
Surrogate: 1-Chlorooctane	70.2	% 41-142							
Surrogate: 1-Chlorooctadecane	75.0	% 37.6-14	7						

### 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

Celeg to Keene



### Analytical Results For:

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

Received:

01/29/2020

Reported:

02/04/2020

Project Name: Project Number:

HOOPER BATTERY NONE GIVEN

Project Location:

HOOPER BATTERY

Sampling Date:

01/28/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

### Sample ID: H 10- 2 (H000281-02)

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	01/31/2020	ND	1.99	99.4	2.00	10.2	
Toluene*	<0.050	0.050	01/31/2020	ND	2.03	101	2.00	9.92	
Ethylbenzene*	<0.050	0.050	01/31/2020	ND	1.96	98.1	2.00	9.78	
Total Xylenes*	<0.150	0.150	01/31/2020	ND	5.89	98.2	6.00	9.82	
Total BTEX	<0.300	0.300	01/31/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/31/2020	ND	416	104	400	3.77	
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	01/30/2020	ND	201	101	200	0.206	
DRO >C10-C28*	<10.0	10.0	01/30/2020	ND	217	108	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	01/30/2020	ND					
Surrogate: 1-Chlorooctane	65.7	% 41-142	2.0						
Surrogate: 1-Chlorooctadecane	68.3	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's flability 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 Fable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its audicidance, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celeg Diteens



### Analytical Results For:

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

Received: Reported: 01/29/2020

Project Name: Project Number: HOOPER BATTERY

Project Location:

02/04/2020

NONE GIVEN

HOOPER BATTERY

Sampling Date:

01/28/2020 Soil

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: H 11 - 2 (H000281-03)

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	01/31/2020	ND	1.99	99.4	2.00	10.2	
Toluene*	<0.050	0.050	01/31/2020	ND	2.03	101	2.00	9.92	
Ethylbenzene*	<0.050	0.050	01/31/2020	ND	1.96	98.1	2.00	9.78	
Total Xylenes*	<0.150	0.150	01/31/2020	ND	5.89	98.2	6.00	9.82	
Total BTEX	<0.300	0.300	01/31/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/31/2020	ND	416	104	400	3.77	
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	01/30/2020	ND	201	101	200	0.206	
DRO >C10-C28*	<10.0	10.0	01/30/2020	ND	217	108	200	6.76	
EXT DRO >C28-C36	<10.0	10.0	01/30/2020	ND					
Surrogate: 1-Chlorooctane	72.6	% 41-142							
Surrogate: 1-Chlorooctadecane	75.6	% 37.6-14	7						

### 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.





### **Notes and Definitions**

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

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 walved 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 or profits incurred by client, its solubidiness, affiliates or successors airling out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celeg D. Keene

### Received by OCD: 3/5/2020 5:56:03 PM

CHAIN OF
S
CUSTOD
CHAIN OF CUSTODY RECORD AND ANALYSIS R
AND
ANAL
SIS
REQUES
ES

Page 6 of 6

Reling	Relinqu		Reling	1.0	Specia							2		LAB # (lab use only)	ORDER #:	(lab use only)							6
Relinquished by:	Relinquished by:	The second secon	ieboat tw		Special Instructions:				i e		OH11-2	2 H10-2	H1-2	FIELD CODE	R#: 4000281	e only)	Sampler Signature:	Telephone No: 575-7.	City/State/Zip: Artesi	Company Address: 104 South 4th Street	Company Name EOG	Project Manager: Chase Settle	ARDINAL LABORA I OKIES  101 East Marland, Hobbs, NM 88240
Date	Date	02-62-1	Date		TPH EXTENDED needed.									H	1500		(A)	575-748-1471	Artesia, NM 88210	outh 4th Street	EOG Y Resources Inc.	Settle	bbs, NM 88240
	_	17.			nee									Beginning Depth									
Time	ime	1:45	ma		ded.									Ending Depth									
Received by ELOT:	Received by:		Received Nr.								1/28/2020	1/28/2020	1/28/2020	Date Sampled						_			(505) 393-2326 FAX (505) 393-2476
OT:		naka d									8:16 AM	8:08 AM	8:04 AM	Time Sampled			e-mail:	Fax No:					FAX (505) 393
		h			İ									Field Fillered	]		10						-2476
		Th.			ļ	_		_			->	-	-7	Total #. of Containers	+		Chase			Ì			0,
		1			ŀ				_		×	×	×	Ice	- 3		ese						
	/	M			ŀ		-	-			-	-	-	HNO₃ HCI	Preservation &								
		10	1		ŀ		+	$\vdash$	-		-	├	-	H <sub>2</sub> SO <sub>4</sub>	ation		Settle			1			
		n			1		+	$\vdash$	-	-	4	-	-	NaOH			<b>@</b>	1			1		
					ŀ	-	-	-					-	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	# of Containers		eo						
vii N		_			ł	+	+	$\vdash$			-	1	F	None	taine		gre					1	
_		Q,	5		ŀ			$\vdash$						Other ( Specify)	3		SOL	1		1			
Date	Date	B	Date								S	s	S	DW=Drinking Water SL=Studge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix		@eogresources.com	Report Format:		<u>.</u>		Proj	
lime	Time	1145	Time		Į						×	×	×	TPH: 8015B			13	Forn		Project Loc:	Pro	Project Name:	
				, 122										TPH: TX 1005 TX 1006	·			nat:	PO #:	t Lo	Project#:	lam	
Tem	San	Cust	200	Sam	Labo		_	_				L	_	Callons (Ca, Mg, Na, K)				ы		S	#	is.	
Temperature Upon Receipt:	Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Sample Containers Intact?	Laboratory Comments:	_	_	_		_	-	L		Anions (CI, SO4, Alkalinity)		TCLP:		x Standard	205-0750				
ature	Han ampl ourie	sea	ee c	Con	3	-	4	-		_	-	-	-	SAR / ESP / CEC	225	4		tanc	)750				
Ę,	2 er o	IS OF	T I	taine	읽		11	_				-	-	Metals: As Ag Ba Cd Cr Pb Hg	J 08			ard					
9	lient	100	ads	. I ste	E L			-	-		-	-	$\vdash$	Volatiles Semivolatiles	+	Analyze For				т		-	
éce éce	PS	ntair pler(	pac	ntac	is:	-	-	-		-	3.5	U		BTEX: 8021B	-			П		Hooper Battery		Hooper Battery	
Ė,	 D	s)	is.	3	-	-	-	-		-	×	×	×	RCI		1		급		per	1	рег	
	물				-	-	+			-			-	N.O.R.M.	<del></del>			TRRP		Bat		Bat	
CN	ZI .				-		+				×	×	×	Chlorides	<del></del>					tery		tery	
から	₩ ₩ ₩	)< B(	BR	BI	-		-		-		T	-	-	SAR	8111			П					
P					1		-							- Interest				N.					
റ്	N Lone Star	zz	zz	z	ŀ	-	-	-	-		+			RUSH TAT (Pre-Schedule) 24,	48, 72	ırs		NPDES			-		
of.	Star				1	- 0 3°	-	-	H	-	×	×	×	Standard TAT	T		4	S					
			100	25,000,000																			





February 14, 2020

CHASE SETTLE EOG Y RESOURCES, INC 105 SOUTH 4TH STREET ARTESIA, NM 88210

RE: HOOPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/13/20 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.

Celeg D. Keena

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 CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210 Fax To: (575) 748-4131

Received:

02/13/2020

Sampling Date: 02,

Reported:

02/14/2020

02/12/2020

Project Name:

HOOPER BATTERY

Soil

Project Number:

NONE GIVEN

Sampling Condition:

Sampling Type:

Cool & Intact

Project Location:

HOOPER BATTERY

Sample Received By:

Jodi Henson

Sample ID: H 7 - 2 (H000450-01)

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	02/14/2020	ND	1.73	86.6	2.00	7.88	
Toluene*	<0.050	0.050	02/14/2020	ND	1.79	89.6	2.00	7.48	
Ethylbenzene*	<0.050	0.050	02/14/2020	ND	1.81	90.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	02/14/2020	ND	5.23	87.2	6.00	8.78	
Total BTEX	<0.300	0.300	02/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/14/2020	ND	432	108	400	0.00	
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	02/13/2020	ND	219	109	200	2.23	
DRO >C10-C28*	<10.0	10.0	02/13/2020	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/13/2020	ND					
Surrogate: 1-Chlorooctane	92.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	17						

### 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 claims 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.

Celeg D. Keens



### Analytical Results For:

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

Received: Reported: 02/13/2020

02/14/2020

HOOPER BATTERY

Project Name: Project Number:

HOOPER BATTERY

Project Location:

NONE GIVEN

Sampling Date:

02/12/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: H 9 - 2 (H000450-02)

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	02/14/2020	ND	1.73	86.6	2.00	7.88	
Toluene*	<0.050	0.050	02/14/2020	ND	1.79	89.6	2.00	7.48	
Ethylbenzene*	<0.050	0.050	02/14/2020	ND	1.81	90.3	2.00	8.68	
Total Xylenes*	<0.150	0.150	02/14/2020	ND	5.23	87.2	6.00	8.78	
Total BTEX	<0.300	0.300	02/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/14/2020	ND	432	108	400	0.00	
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	02/13/2020	ND	219	109	200	2.23	
DRO >C10-C28*	<10.0	10.0	02/13/2020	ND	221	110	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	02/13/2020	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	le.						
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

### 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.





### **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.
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.
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

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 claims 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.

Celeg D. Keens

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Relinquished by:	Relinquished by:	Relinquis	opecial I							1	-	LAB # (lab use only)	ORDER #:	(lab use only)	"		6	0	0	711	6
hed by:	hed by:		operal manacadis.							H9-2	H7-2		1	11 , 477	Sampler Signature:	Telephone No:	City/State/Zip:	Company Addr	Company Name	Project Manager:	ARDINA 101 East
				1								FIELD CODE	OCHOUR		ture:	575-748-1471	Artesia, NM 88210	Company Address: 104 South 4th Street	e EOG Y Resources Inc	Chase Settle	ARDINAL LABORA I OKIES 101 East Marland, Hobbs, NM 88240
Date	Date	2/13/20		L EXTENDED						1		r) G			Ċ	0	88210	th Street	ources Inc.	to	MM 88240
Time	Time	Time //:3:										Beginning Depth									
ne	ne	Time /:30	1	2								Ending Depth									_
Received by ELOT:	Received by:	Received by:								2/12/2020	2/12/2020	Date Sampled									(505) 393-2326 FAX (505) 393-2476
OT:		durser								1:33 PM	1:30 PM	Time Sampled			e-mail:	Fax No:					AX (505) 393-2
		2										Field Fillered	-		10	1					2476
		E		_	1	_		-		>		Total #. of Containers	+	1	Chase						
		7		+	-	_	+	+-		×	×	HNO <sub>3</sub>	Pre		se		1				
				+	1	-	-	+		+	$\vdash$	HCI	Preservation & #		လ္ထ					1	
		,		H	+	-+	+	+		-	+-	H₂SO <sub>4</sub>	Tion &		Settle@	1					
				-	+-	-	+	+-			$\top$	NaOH				1					
				H	+	$\neg$		+		1	+	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	를 일		900						
W R D		13		-	-		-					None	of Containers		reg						
		100										Other ( Specify)			ű		-	1			
Date	Date	3								S	S	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potabla Specify Other	Matrix		eogresources.com	Report Format:		ņ		Proj	
Ime	Time	がら		T						×	×	TPH: 8015B			3	Fort		Project Loc:	Project #:	Project Name:	
ō	i m	500										TPH: TX 1005 TX 1006	6	11		nat	PO #	ţ.	ect	iam	
e	Sal	550	Sar	Lab								Cations (Ca, Mg, Na, K)	-		Ш	E.		l <sub>U</sub>	<b>*</b>	i.	
npe	by s	stod	nple Cs F	ora								Anions (CI, SO4, Alkalinity)	_	TOTAL:	Н	(A)	205-0750				
ratu	ty Sampler/ by Courier?	y sea	Cor	5						_	-	SAR/ESP/CEC		F7		tan	)750		1		
Temperature Upon Receipt   4	Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Custody seals on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:						_		Metals: As Ag Ba Cd Cr Pb H	ig Se	++-	Ana	x Standard					
pon	Clien	in oc	ead	mm				_		-	_	Votatiles		+	Analyze			-		+	
Rec	t Re	oler (S)	Inta	nts _				_	$\vdash$		4000	Semivolatiles	-	+-	For		1	Hooper Battery		Hooper Battery	
eipt		(s)	8 3	<u>.</u>			_ -	-		_ <u> ×</u>	×	BTEX: 8021B	-		1.0	H	1	рег		per	
-	뫋	(8)			_			-		+	-	RCI				TRRP		Bat		Bat	
	es-1X			TI.				-		-		N.O.R.M.		-				ten		ten	
	Fed	10	10	L						×	×	Chlorides					1	-		1	
		340	K/A	_	_WC		_	+		_	-	SAR		-		Z	1				
l V	N Lone Star	1 _0	1	-			- 1	-	-	, II		RUSH TAT (Pre-Schedule) 24	4. 48 1	72 hrs	-	NPDES					
ဂံ	e Sta	z z (z	)* Z	L	-			-	$\vdash$	$ \times$	$\times$		., ., ., .		_	S					
	=		100	- 1		1		- 1	1 1		1	Standard TAT	- 1				1				



February 27, 2020

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: HOOPER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/26/20 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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.

Celeg 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



### Analytical Results For:

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

Received:

02/26/2020

Sampling Date:

02/26/2020

Reported:

02/27/2020

Sampling Type:

Soil

Project Name:

HOOPER BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

HOOPER BATTERY

Sample ID: V 9 - 2.5' (H000617-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2020	ND	1.91	95.3	2.00	6.14	
Toluene*	<0.050	0.050	02/27/2020	ND	1.92	95.9	2.00	6.27	
Ethylbenzene*	<0.050	0.050	02/27/2020	ND	1.94	97.0	2.00	6.17	
Total Xylenes*	<0.150	0.150	02/27/2020	ND	5.69	94.9	6.00	6.24	
Total BTEX	<0.300	0.300	02/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/27/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2020	ND	198	99.1	200	5.76	
DRO >C10-C28*	<10.0	10.0	02/27/2020	ND	216	108	200	2.61	
EXT DRO >C28-C36	<10.0	10.0	02/27/2020	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.9	% 42.2-15	6						

### 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 walved 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 subcidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.





### **Notes and Definitions**

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

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.

Celeg & Keene

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Page 4 of 4

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

			_				,					The State of the S	1-	-	_	1						
Relinquished by:	Relinquished by:	Kelinquished by	1	Special I								LAB # (lab use only)	ORDER #:		(lab use only)		19227		22.5			
ned by:	ned by:	The second secon	2	Special Instructions:							V9-2.5'	<b>=</b>	# 1000 61				Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:
D		2.32.20	-	TPH EXTENDED needed								FIELD CODE	1/	i		9		575-748-1471	Artesia, NM 88210	: 104 South 4th Street	EOG Y Resources Inc.	Chase Settle
Date	ate	02.37		NDE													/	50			્ર	
		1//		D nee								Beginning Depth	1									
Time	Time	11:30		ded.								Ending Depth	1									
Received by ELOT:	Received by:	Received 97:									2/26/2020	Date Sampled										
OT:		M BADI									9:15 AM	Time Sampled					e-mail:	Fax No:				
7		11										Field Filtered						1				
. 3		100									->	Total #. of Containers					Chase		1			
		100									×	Ice					ase					
egiis i	1	D										HNO <sub>3</sub>	Preservation & # of C	l			S					
		11	1						_			HCI	vation	ı			Settle@e					1
		0			$\vdash$		-		-			H <sub>2</sub> SO <sub>4</sub>	- PP				eQ	1				
					$\vdash$		-		+	-	-4-	NaOH Na.S.O.					)eo					
ellerit si		0.	+				-	-	+			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	ontainers	ı			gre					
		20			$\vdash$		$\vdash$	+	+	+-1		Other ( Specify)	- 3				OS					
Date	Date	2-26-20	lato								w	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix				ogresources.com	Report Format:		' '	<u>!</u>	Pro
Time	Time	H	T T								×	TPH: 8015B				П	13	Fort		Project Loc:	Pro	Project Name:
	100											TPH: TX 1005 TX 1006	3			Н		nat	PO	5	Project #:	Nam
Ten	Sample Hand Delivered by Sampler/Client Rep by Courier? UPS	CIR	20	San								Calions (Ca, Mg, Na, K)		١.		П			PO #: 205-0750	ŭ	.#	<u>.</u>
per	by S by C	Custody seals on cool	SF	ple					_			Anions (CI, SO4, Alkalinity)	_	TOTAL:	TCLP:	П		x Standard	8		1	-
ature	nple Hand I by Sampler/ by Courier?	sea	ee c	Con og	<u> </u>		_		-	-	_	SAR / ESP / CEC	- 0-	F.	, Ģ			tano	)750		+	
3	2 Sep	Is or	of He	Con		-4-			-4-	-	-	Metals: As Ag Ba Cd Cr Pb Hg	) oe	⊦	H	Ana		lard				
S <sub>E</sub>	lient	000	ads	ars h		_	-		+	+	_	Volatiles	-	┝	-	lyze				-	ľ	т
Temperature Upon Receipt	nple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments: Sample Containers Intact?	$\vdash$		-	-	+	-	- ×	Semivolatiles BTEX: 8021B	-	H	$\vdash$	Analyze For:		П		Hooper Battery		Hooper Battery
P	_ · v	er(s	12	:3	$\vdash$	_				-		RCI	-	L	L			7		рег		per
	물					67-			+			N.O.R.M.	_			П		] TRRP		Batt		Batt
0	חק	4			$\vdash$		+-	$\vdash$	+	+	×	Chlorides			-	П				ery		ery
0.10	BR PAR	X8	X	R	$\vdash$							SAR			_							
,,,	٢ ·															Ш		NPDES				
റ്	N Lone Sta	zzz	zz	z							×	RUSH TAT (Pre-Schedule) 24,	40, 7	2 hr	rs			SES				
	ற	100										Clandard TAT	1								1	



March 2, 2020

### **Appendix E**Form C-141 (Initial and Closure)

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

Responsible Party

EOG Reources, Inc.

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NRM2000240058
District RP	
Facility ID	
Application ID	

### **Release Notification**

### **Responsible Party**

OGRID

7377

Contact Name Chase Settle			Contact Te	lephone	575-748-1471		
Contact email Chase_Settle@eogresources.com			Incident#	(assigned by OCD)	)		
Contact mailing address 104 South Fourth Street, Artesia, NM			M 88210				
			Location	of R	elease So	ource	
_atitude32	2.64132				Longitude _	-104.49590	
			(NAD 83 in de	cimal de <sub>l</sub>	grees to 5 decin	al places)	
Site Name	Hooper Ba	attery			Site Type	Battery	
Date Release	Discovered	10/30/2019			API# (if app	licable)	
Unit Letter	Section	Township	Range		Coun	ty	]
М	21	198	25E	E	ddy		1
Crude Oil		l(s) Released (Select al Volume Release		calculat	ions or specific	justification for the Volume Reco	e volumes provided below) overed (bbls)
Produced	Water	` ' ' ' <del>'</del>			Volume Reco		
Is the concentration of dissolved chloride produced water >10,000 mg/l?			in the	✓ Yes ☐ N	lo .		
Condensa	ite	Volume Release				Volume Reco	overed (bbls)
Natural G	as	Volume Released (Mcf)				Volume Reco	overed (Mcf)
Other (de	r (describe) Volume/Weight Released (provide units)		j	Volume/Weig	ght Recovered (provide units)		
Cause of Rele				·····			
A 2 inch po	oly to steel	transition was o	orroded and wa	as bro	ken during	other mainta	nence activities at the battery.

Incident ID	NRM 2000240058
District RP	
Facility ID	
Application ID	

13.7	TCANDO C	
Was this a major release as defined by	If YES, for what reason(s) does the respor	- · ·
19.15.29.7(A) NMAC?	Greater than 25 bbls were released	
☑ Yes ☐ No		
M Les   140		
If VES was immediate no	ctice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	<del>-</del>	bert Hamlet (NMOCD), Victoria Venegas (NMOCD),
	CD) and Jim Griswold (NMOCD) on 10	
	Initial Re	esponse
The responsible p	party must undertake the following actions immediatel	vunless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and	I managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
		·
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence re	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred
within a lined containmen	it area (see 19.15.29.11(A)(5)(a) NMAC), p	lease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
failed to adequately investiga	ate and remediate contamination that pose a threa	at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of i	responsibility for compliance with any other federal, state, or local laws
Division Change	Sattle	Til Don Cofety & Environmental II
Printed Name: Chase S	7	Title: Rep Safety & Environmental II
Signature: <u>Chase S</u>	ettle	Date:11/4/2019
email: Chase_Settle@	eogresources.com	Telephone: _575-748-1471
		-
OCD Only		

Incident ID	NRM2000240058
District RP	
Facility ID	
Application ID	

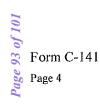
### Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes 🏻 No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🛛 No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🛭 No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🏻 No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🏻 No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🛭 No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🏻 No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🏻 No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody		

Received by OCD: 3/5/2020 5:56:03 PM

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15,29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



Incident ID	NRM2000240058
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.		
Printed Name: Chase Settle	Title: Rep Safety and Environmental II	
Signature: Chau Settle	Date: _03/02/2020	
email: Chase_Settle@eogresources.com	Telephone: _575-748-1471	
OCD Only		
Received by:	Date:	

Incident ID	
District RP	
Facility ID	
Application ID	· ·

### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be	e included in the plan.
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.</li> <li>□ Proposed schedule for remediation (note if remediation plan tin</li> </ul>	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	h, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved	Approval Denied Deferral Approved
Signature:	Date:

Incident ID	NRM 2000240058
District RP	
Facility ID	
Application ID	

### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the for	llowing items must be included in the closure report.	
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropr	riate ODC District office must be notified 2 days prior to final sampling)	
☐ Description of remediation activities		
and regulations all operators are required to report and/or f may endanger public health or the environment. The accep should their operations have failed to adequately investigat human health or the environment. In addition, OCD accep compliance with any other federal, state, or local laws and/restore, reclaim, and re-vegetate the impacted surface area accordance with 19.15.29.13 NMAC including notification Printed Name: Chase Settle	d complete to the best of my knowledge and understand that pursuant to OCD rules file certain release notifications and perform corrective actions for releases which prance of a C-141 report by the OCD does not relieve the operator of liability te and remediate contamination that pose a threat to groundwater, surface water, stance of a C-141 report does not relieve the operator of responsibility for for regulations. The responsible party acknowledges they must substantially to the conditions that existed prior to the release or their final land use in a to the OCD when reclamation and re-vegetation are complete.  Title: Rep Safety and Environmental  Date: 03/02/2020  Telephone: 575-748-1471	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title·	

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

Responsible Party

EOG Resources, Inc.

State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NCS2003542654
District RP	
Facility ID	
Application ID	

7377

### **Release Notification**

### **Responsible Party**

OGRID

Contact Name Chase Settle			Contact Te	elephone	575-748-1471		
Contact email Chase_Settle@eogresources.com			Incident #	(assigned by OCD)			
Contact mail	Contact mailing address 104 South 4th Street, Artesia, NM 8821			1 88210			
			Location				
Latitude 32	2.64132		(NAD 83 in dec	cimal de <sub>t</sub>	Longitude _ grees to 5 decin	-104.49590 nal places)	
Site Name	Hooper Ba	attery			Site Type	Battery	
Date Release	Discovered	12/18/2019			API# (if app	licable)	
Unit Letter	Section	Township	Range		Coun	ity	
М	21	198	25E		Eddy		
	Surface Owner: State Federal Tribal Private (Name:  Nature and Volume of Release  Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
Crude Oil		Volume Release		88		Volume Reco	<u>`</u>
Produced	Water	Volume Release	` '			Volume Reco	` '
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?						
Condensa	ite	Volume Release	d (bbls)			Volume Reco	vered (bbls)
☐ Natural G	ias	Volume Release	d (Mcf)		•	Volume Reco	vered (Mcf)
Other (de	scribe)	Volume/Weight	Released (provide	e units)		Volume/Weig	tht Recovered (provide units)
Cause of Rele	ease						
Freezing te	emperature	s caused a 3" b	all valve to sepa	arate t	threads on	the load line t	for an oil tank.

Form C-141

### State of New Mexico Oil Conservation Division

Incident ID	NCS2003542654
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	- ·
19.15.29.7(A) NMAC?	A volume greater than 25 bbls was r	eleased.
, ,		
☑ Yes ☐ No		
	·	
If YES, was immediate n	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
Yes, email notification	n was provided to Jim Griswold and Mi	ke Bratcher on December 18, 2019, at 3:45 p.m. by
Bob Asher.		
	Initial Re	esponse
The responsible	party must undertake the following actions immediatel	vunless they could create a safety hazard that would result in injury
✓ The source of the rele	ease has been stonned.	
	as been secured to protect human health and	the environment
l <del></del> .	•	
		ikes, absorbent pads, or other containment devices.
-	ecoverable materials have been removed and	
If all the actions describe	d above have <u>not</u> been undertaken, explain v	vhy:
D. 10 15 20 0 D. (4) 3 D.	(A.C. d	distinction distance of a valence of consistion
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		lease attach all information needed for closure evaluation.
I hereby certify that the info	rmation given above is true and complete to the l	pest of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release notif	ications and perform corrective actions for releases which may endanger
		CD does not relieve the operator of liability should their operations have
		at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Chase S	Settle	Title: Rep Safety and Environmental II
Signature: Chan 5	7	
Signature:	ette	Date:
email: Chase_Settle@	Deogresources.com	Telephone: 575-748-1471
		-
OCD Only		
Received by:		Date:

Incident ID	NCS2003542654
District RP	
Facility ID	
Application ID	

### Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes 🏻 No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🛭 No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🏻 No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🏻 No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🛛 No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🏻 No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No		
Are the lateral extents of the release within a 100-year floodplain?			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil		
Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody			

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	NCS2003542654
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name: Chase Settle	Title: Rep Safety and Environmental II
Signature: Chan Sottle	Date: _03/02/2020
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471
OCD Only	
Received by:	Date:

Incident ID	
District RP	
Facility ID	
Application ID	

### **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan.		
<ul> <li>□ Detailed description of proposed remediation technique</li> <li>□ Scaled sitemap with GPS coordinates showing delineation points</li> <li>□ Estimated volume of material to be remediated</li> <li>□ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>□ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>			
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	1, the environment, or groundwater.		
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of		
Printed Name:	Title:		
Signature:	Date:		
email:	Telephone:		
OCD Only			
Received by:	Date:		
Approved	Approval		
Signature:	Date:		

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Incident ID	NCS2003542654
District RP	
Facility ID	
Application ID	

### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)  Description of remediation activities  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: Chase Settle  Title: Rep Safety and Environmental II
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: Chase Settle  Title: Rep Safety and Environmental II
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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: Chase Settle  Title: Rep Safety and Environmental II
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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: Chase Settle  Title: Rep Safety and Environmental II
Printed Name: Chase Settle Title: Rep Safety and Environmental II
Signature: Chase Settle Date: 03/02/2020
email: Chase_Settle@eogresources.com Telephone: 575-748-1471
OCD Only
Received by: Date:
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Date:
Printed Name: Title: