



March 8, 2018

Reference No. 088210-36

Mr. Mike Bratcher  
New Mexico Oil Conservation Division  
Energy, Minerals and Natural Resources Department  
811 South First Street  
Hobbs, NM 88240

Ms. Shelly Tucker  
Bureau of Land Management  
620 E. Greene St.  
Carlsbad, NM 88220

Dear Mr. Bratcher and Ms. Tucker:

**Re: Closure Request  
Juniper BIP Federal #5 (API #30-015-28557)  
2RP-3501**

**EOG Resources, Inc.  
Site Location: Unit F, Sec. 4, T 24-S, R 29-E  
(Lat 32.24898°, Long -103.99232°)  
Eddy County, New Mexico**

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG) is requesting that no further action status be granted for the Juniper BIP Federal #5 (hereafter referred to as the "Site").

In an Assessment Summary Report dated October 16, 2017 (attached) GHD recommended the following scope items be completed following delineation of the soil impacts in order to achieve no further action;

- Backfilling of the excavated area with clean fill material and wheel compacting to grade.
- Fertilizing and reseeding of the disturbed area with a Bureau of Land Management (BLM) approved seed mix. A BLM #2/3 mixture was to be used. Reseeding will take place during the 2018 growing season.

The work scope was approved via email by Mr. Bratcher with the New Mexico Oil Conservation Division on October 25, 2017. Ms. Shelly Tucker with the BLM approved the report via email on October 27, 2017. As of the date of this letter, the above scope items have been completed, except the reseeding, and are documented in the attached completion photos and final C-141 for the Site; therefore, No Further Action is being requested.



Your timely response to this requested is greatly appreciated. Should you have any questions, or require additional information regarding this submittal, please feel free to contact myself or Bernie Bockisch at (505) 884-0672 or Bernard.Bockisch@ghd.com.

Sincerely,

GHD

A handwritten signature in blue ink that reads "Alan Brandon". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Alan Brandon  
Senior Project Manager

A handwritten signature in blue ink that reads "Bernard Bockisch". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Bernard Bockisch  
Senior Project Manager

AB/pd

Attachments: Site Photographs  
Copy of Assessment Summary Report  
Final NMOCD Form C-141



Photo 1 - Backfilled area



Photo 2 - Backfilled area



## Site Photographs



October 16, 2017

Reference No. 088210-36

Mr. Zane Kurtz  
Sr. Safety and Environmental Representative  
5509 Champions Dr.  
Midland, TX 79706  
VIA E-Mail: [zane\\_kurtz@eogresources.com](mailto:zane_kurtz@eogresources.com)

Dear Mr. Kurtz:

**Re: Assessment Summary Report  
Juniper BIP Fed #5  
2RP-3501 (API 30-015-28577)  
EOG Resources, Inc.  
Site Location: Unit F, Sec. 4, T 24-S, R 29-E  
(Lat 32.24898°, Long -103.99232°)  
Eddy County, New Mexico**

GHD Services, Inc. (GHD) is pleased to present this report for the above referenced site. Assessment activities were performed at the Juniper BIP Federal #5 (hereafter referred to as the "Site"), on July 10, August 8, and August 9, 2017 by GHD. The Site is located within Unit F, Section 4, Township 24 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The site is owned by the U.S. Bureau of Land Management (BLM).

The Site is an active well site located approximately 5 miles east, northeast of Malaga, New Mexico. According to EOG supplied Site information, a release of approximately 60 barrels (bbls) of produced water and 80 bbls of crude oil were released from the heater manhole gasket. Approximately 58 bbls of produced water and 78 bbls of crude oil were recovered utilizing vacuum trucks. The release was discovered on January 1, 2016. A C-141 Form was submitted to the New Mexico Oil Conservation Division (NMOCD) and BLM on January 14, 2016 and remediation permit (RP) number 2RP-3501 was assigned.

Initial delineation samples were collected on January 27, 2016 in three sections within the release area (green shaded area on Figure 2) by Yates Petroleum Corporation (Yates). One surface soil sample was collected in each section and submitted for laboratory analysis. The samples were submitted to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) gasoline and diesel range organics by EPA Method 8015M/D, and chlorides by EPA Method 300 analysis.

BTEX concentrations ranged from 41.8 to 144 milligrams per kilogram (mg/kg) and total TPH concentrations ranged from 20,200 to 30,900 mg/kg. Chloride concentrations ranged below the laboratory reporting limit to 170 mg/kg. BTEX and total TPH concentrations were detected above the New Mexico Oil



Conservation Division (NMOCD) Recommended Remediation Action Levels (RRALs) established for this site (see table below) in all three sections sampled.

Additional vertical delineation samples were collected on February 9, 2016 by Yates utilizing a backhoe. Nine soil samples were collected from depths ranging from one to 3 feet below ground surface (ft. bgs) within the three sections of the release area. The samples were submitted to HEAL for BTEX and TPH analysis. BTEX concentrations ranged from 0.7 to 875 mg/kg and total TPH concentrations ranged from 57 to 17,800. BTEX and total TPH concentrations were detected above the RRALs to a depth of 3 ft. bgs.

Additional vertical delineation samples were collected on March 8, 2016 by Yates utilizing a backhoe. Six soil samples were collected from depths ranging from four to 6 ft. bgs within two of the three sections of the release area. The samples were submitted to HEAL for BTEX and TPH analysis. BTEX and total TPH concentrations were not detected above the laboratory reporting limits in any of the samples.

Contaminated soils were excavated by Yates, broken up, and treated with a Micro-Blaze/water mixture in an effort to remediate them on site. The treated soil was placed back in the excavation. Soil samples were collected from the treated soils at various times with the latest sampling taking place on January 19, 2017. Seven soils samples were collected from depths of one and 2 ft. bgs and submitted to HEAL for TPH diesel and gasoline range analysis. Total TPH concentrations ranged from 1,730 to 2,647 mg/kg.

## 1. Recommended Remediation Action Level

There are relatively few groundwater wells in the area of the Site with which to obtain a depth to groundwater. Based on information available from the New Mexico Office of the State Engineer (NMOSE) New Mexico Water Rights Reporting System website, the closest well is approximately 1.4 miles from the site. The depth to groundwater measured in this well was 26 feet below ground surface (ft. bgs). The NMOSE well report is included in Appendix A.

There do not appear to be any wellhead protection areas and no surface water bodies within 200 to 1000 ft. of the Site. Therefore, the preliminary total ranking score for the Site is 20 (see table below).

Based on this score, the applicable NMOCD Site-specific RRALs are 10 mg/kg for benzene, 50 mg/kg for total BTEX, 100 mg/kg for total TPH, and 600 mg/kg for chlorides.

In an August 28, 2017 telephone conversation between Bernard Bockisch of GHD and Jim Griswold, NMOCD Environmental Bureau Chief, GHD was informed that the NMOCD is accepting chloride concentrations of 600 mg/kg for assessment clean up levels.



New Mexico Oil Conservation Division Site Assessment	
Ranking Criteria	Score
Depth to Ground Water (<50 ft. bgs)	20
Wellhead Protection Area (> 1000 ft. from water source, > 200 ft. from domestic source)	0
Distance to Surface Body Water (200-1000 ft.)	0
<b>Ranking Criteria Total Score</b>	<b>20*</b>
*Because the ranking criteria total score is 20, NMOCD established RRALs are 10 mg/kg for benzene, 50 mg/kg for total BTEX, 100 mg/kg for TPH <sup>1</sup> , and 600 mg/kg for chlorides.	

1. NMOCD Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993.

## 2. Assessment Activities

GHD and SDR Enterprises, LLC (SDR) performed additional assessment activities on July 10, August 8, and August 9, 2017 that included the collection of 27 soil samples from 12 test pits. Soil samples were collected from depths ranging from 6 inches to 10 ft. bgs and submitted to HEAL.

Nine test pits, TP-1 through TP-9 were excavated in the spill area on July 10, 2017 and samples were collected from depths ranging from six inches to 4 ft. bgs. The samples were submitted to HEAL for total TPH by EPA Method 8015, BTEX by EPA Method 8021B, and for chloride analysis by EPA 300.

The analytical data indicated that total TPH contaminated soil exceeding the RRAL extended to a depth of 6 inches with concentrations ranging from below the laboratory reporting limits to 3,300 mg/kg. The highest concentrations were encountered in test pits TP-7, TP-8, and TP-9. BTEX constituents were all below the laboratory reporting limits and chloride concentrations ranged from below the laboratory reporting limit to 570 mg/kg. The vertical extent of petroleum hydrocarbons within the spill area had not been delineated to below RRALs. The analytical data is summarized on Table 1 and the laboratory reports are included in Appendix B.

Further soil sampling was performed by GHD and SDR on August 8, 9, and 30, 2017 to further assess the vertical extent of total TPH in impacted area soils. Twelve soil samples were collected at depths ranging from one to 10 ft. bgs.

Test pits TP-7, TP-8, and TP-9 were extended to depths ranging from 6 to 8 ft. bgs. Samples collected from these test pits were submitted to HEAL for analysis of BTEX by EPA 8021B and total TPH by EPA Method 8015. TPH concentrations from samples collected at 4 ft. bgs from test pits TP-7 and TP-9 were below the laboratory reporting limit. The sample collected from TP-8 at 6 ft. bgs contained a total TPH concentration of 194 mg/kg and the sample collected at 8 ft. bgs contained a total TPH concentration of 41 mg/kg.





Test pits TP-10, TP-11, and TP-12 were excavated on August 9, 2017 to further assess the horizontal extent of chloride contamination. Samples were collected from depths ranging from one to 4 ft. bgs and were submitted to HEAL for chloride analysis by EPA Method 300.0. Chloride concentrations ranged from below the laboratory reporting limit to 140 mg/kg.

Test pit TP-6 was extended to a depth of 10 ft. bgs on August 28, 2017 and one sample collected at 10 ft. bgs was submitted to HEAL for chloride analysis by EPA Method 300.0. This sample contained a chloride concentration of 250 mg/kg.

A review of the Site assessment data resulted in the delineation of area for excavation with approximate dimensions of 130 ft. x 20 ft. by 4 ft. On August 9 and August 11, 2017, a total of approximately 124 tons of impacted soil were excavated and transported to Lea Land LLC for landfill disposal. SDR removed the original treated soil as well as additional excavated soil. Waste manifests are included in Appendix C.

### 3. Summary and Recommendations

Based on the assessment of the petroleum hydrocarbon and chloride concentrations, GHD recommends the following:

- Backfilling of the excavation with clean fill material and wheel compacting to grade.
- Seed and fertilize the area.

Following completion of the backfilling, revegetation of the site will be performed. Disturbed areas associated with the remediation efforts will be re-seeded. Revegetation will be performed using a BLM approved seed mix.

Should you have any questions or require additional information regarding this submittal please feel free to contact myself, or Bernie Bockisch at (505) 884-0672 or [Bernard.Bockisch@ghd.com](mailto:Bernard.Bockisch@ghd.com).

Sincerely,

GHD

A handwritten signature in blue ink that reads "Alan Brandon".

Alan Brandon  
Senior Project Manager

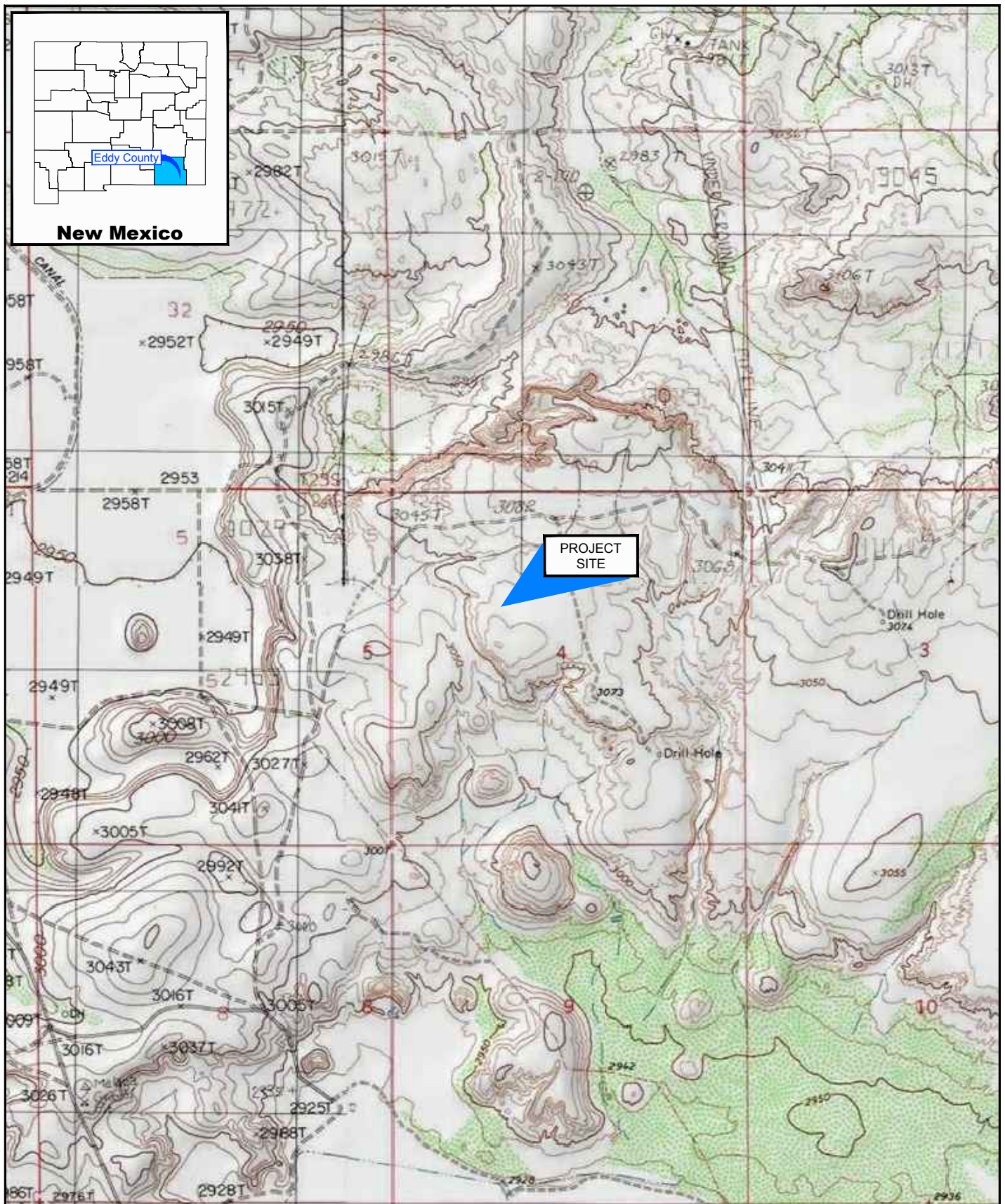
BB/mc/36

A handwritten signature in blue ink that reads "Bernard Bockisch".

Bernard Bockisch  
Albuquerque Operations Manager

## Figures





Source: USGS 7.5 Minute Quad "Pierce Canyon, Malaga, Loving, and Remuda Basin, New Mexico"

Lat/Long: 32.24927° North, 103.992910° West

0 1000 2000ft

Coordinate System:  
NAD 1983 (2011) StatePlane-  
New Mexico East (US Feet)



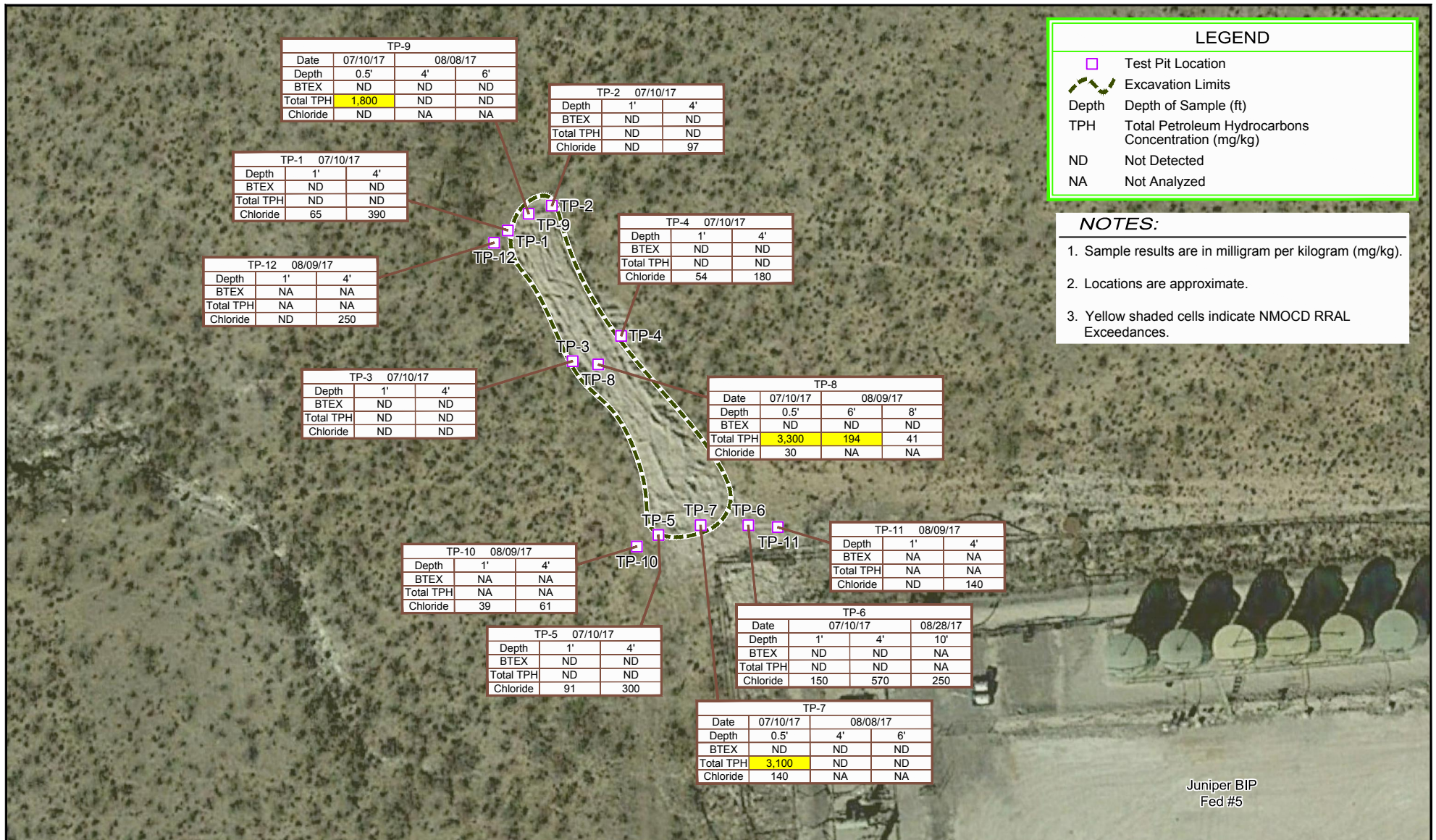
EOG RESOURCES  
EDDY COUNTY, NEW MEXICO  
JUNIPER BIP FED #5

SITE LOCATION MAP

088210-36  
Aug 23, 2017

FIGURE 1





Source: Image © 2017 Google - Imagery Date: February 1, 2017

Lat/Long: 32.24927° North, 103.992910° West

0 25 50ft

Coordinate System:  
NAD 1983 (2011) StatePlane-  
New Mexico East (US Feet)



EOG RESOURCES  
EDDY COUNTY, NEW MEXICO  
JUNIPER BIP FED #5

SAMPLE LOCATION MAP

088210-36

Oct 4, 2017

FIGURE 2

## Tables

Table 1

## Juniper BIP Fed #5 - Summary of Soil Analytical Data

Sample ID	Depth (feet)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Chloride
S-088210-36-071017-SP-01 (TP-1)	1	07/10/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.8	<49	<63.6	65
S-088210-36-071017-SP-02 (TP-1)	4	07/10/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<10	<51	<65.7	390
S-088210-36-071017-SP-03 (TP-2)	1	07/10/2017	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<11	<54	<69.8	<30
S-088210-36-071017-SP-04 (TP-2)	4	07/10/2017	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.7	<48	<62.6	97
S-088210-36-071017-SP-05 (TP-3)	1	07/10/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.7	<49	<63.4	<30
S-088210-36-071017-SP-06 (TP-3)	4	07/10/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.8	<49	<63.6	<30
S-088210-36-071017-SP-07 (TP-4)	1	07/10/2017	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.5	<47	<61.4	54
S-088210-36-071017-SP-08 (TP-4)	4	07/10/2017	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.3	<47	<61.2	180
S-088210-36-071017-SP-09 (TP-5)	1	07/10/2017	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.8	<49	<63.7	91
S-088210-36-071017-SP-10 (TP-5)	4	07/10/2017	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.7	<48	<62.6	300
S-088210-36-071017-SP-11 (TP-6)	1	07/10/2017	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.3	<46	<60.1	150
S-088210-36-071017-SP-12 (TP-6)	4	07/10/2017	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.7	<49	<63.6	570
S-088210-36-082817-SP-TP-6-10	10	08/28/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	250
S-088210-36-071017-SP-13 (TP-7)	0.5	07/10/2017	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	1600	1500	3100	140
S-088210-36-080817-SP-TP-7-4	4	08/08/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.6	<48	<62.3	NA
S-088210-36-080817-SP-TP-7-6	6	08/08/2017	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<10	<51	<65.7	NA
S-088210-36-071017-SP-14 (TP-8)	0.5	07/10/2017	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	1700	1600	3300	30
S-088210-36-080917-SP-TP-8-6	6	08/09/2017	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	94	100	194	NA
S-088210-36-080917-SP-TP-8-8	8	08/09/2017	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	41	<49	41	NA
S-088210-36-071017-SP-15 (TP-9)	0.5	07/10/2017	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	1000	800	1800	<30
S-088210-36-080817-SP-TP-9-4	4	08/08/2017	<0.023	<0.047	<0.047	<0.094	<0.211	<4.6	<9.3	<46	<59.9	NA
S-088210-36-080817-SP-TP-9-6	6	08/08/2017	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.7	<49	<63.4	NA
S-088210-36-080917-SP-TP-10-1	1	08/09/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	39
S-088210-36-080917-SP-TP-10-4	4	08/09/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	61
S-088210-36-080917-SP-TP-11-1	1	08/09/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
S-088210-36-080917-SP-TP-11-4	4	08/09/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	140
S-088210-36-080917-SP-TP-12-1	1	08/09/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30
S-088210-36-080917-SP-TP-12-4	4	08/09/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	250
<b>NMOCD RRLs (Total Ranking Score = 20)</b>			<b>10</b>	<b>50</b>				<b>Total TPH: 100</b>				<b>600</b>

## Notes:

All sample results are in milligrams per kilogram

NA = Not Analyzed

NMOCD = New Mexico Oil Conservation Division

RRLs = Recommended Remediation Action Limits

Highlighted = Exceeds NMOCD RRL

# Appendices

# Appendix A

## Water Well Report

Juniper B&amp;P Fed #5



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Column
<a href="#">C 03615 POD2</a>		CUB	ED	4	2	4	06	24S	29E	592661	3568013	2278	60	26	34		
																Average Depth to Water:	
																26 feet	
																Minimum Depth:	
																26 feet	
																Maximum Depth:	
																26 feet	

**Record Count:** 1

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 594885.1

**Northing (Y):** 3568509

**Radius:** 2500

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.

8/24/17 8:11 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER



# Appendix B

## Laboratory Analytical Reports



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

August 08, 2017

Alan Brandon

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Juniper BIP Federal 5

OrderNo.: 1707652

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 15 sample(s) on 7/13/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**Date Reported: **8/8/2017****CLIENT:** GHD**Client Sample ID:** S-088210-36-071017-01**Project:** Juniper BIP Federal 5**Collection Date:** 7/10/2017 10:25:00 AM**Lab ID:** 1707652-001**Matrix:** SOIL**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	65	30		mg/Kg	20	7/24/2017 8:54:58 PM	32978
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2017 10:48:10 PM	32810
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2017 10:48:10 PM	32810
Surr: DNOP	72.5	70-130		%Rec	1	7/17/2017 10:48:10 PM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2017 2:07:47 PM	32807
Surr: BFB	108	54-150		%Rec	1	7/17/2017 2:07:47 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/17/2017 2:07:47 PM	32807
Toluene	ND	0.048		mg/Kg	1	7/17/2017 2:07:47 PM	32807
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2017 2:07:47 PM	32807
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2017 2:07:47 PM	32807
Surr: 4-Bromofluorobenzene	147	66.6-132	S	%Rec	1	7/17/2017 2:07:47 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-02

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 10:40:00 AM

**Lab ID:** 1707652-002

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	390	30		mg/Kg	20	7/24/2017 9:07:22 PM	32978
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/19/2017 6:48:58 PM	32810
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	7/19/2017 6:48:58 PM	32810
Surr: DNOP	80.4	70-130		%Rec	1	7/19/2017 6:48:58 PM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2017 3:20:37 PM	32807
Surr: BFB	110	54-150		%Rec	1	7/17/2017 3:20:37 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/17/2017 3:20:37 PM	32807
Toluene	ND	0.047		mg/Kg	1	7/17/2017 3:20:37 PM	32807
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2017 3:20:37 PM	32807
Xylenes, Total	ND	0.095		mg/Kg	1	7/17/2017 3:20:37 PM	32807
Surr: 4-Bromofluorobenzene	150	66.6-132	S	%Rec	1	7/17/2017 3:20:37 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-03

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 10:50:00 AM

**Lab ID:** 1707652-003

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	7/24/2017 9:44:34 PM	32978
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	11		mg/Kg	1	7/23/2017 2:05:16 PM	32918
Motor Oil Range Organics (MRO)	ND	54		mg/Kg	1	7/23/2017 2:05:16 PM	32918
Surr: DNOP	89.0	70-130		%Rec	1	7/23/2017 2:05:16 PM	32918
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2017 7:45:22 PM	32807
Surr: BFB	107	54-150		%Rec	1	7/17/2017 7:45:22 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/17/2017 7:45:22 PM	32807
Toluene	ND	0.048		mg/Kg	1	7/17/2017 7:45:22 PM	32807
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2017 7:45:22 PM	32807
Xylenes, Total	ND	0.097		mg/Kg	1	7/17/2017 7:45:22 PM	32807
Surr: 4-Bromofluorobenzene	144	66.6-132	S	%Rec	1	7/17/2017 7:45:22 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**Date Reported: **8/8/2017****CLIENT:** GHD**Client Sample ID:** S-088210-36-071017-04**Project:** Juniper BIP Federal 5**Collection Date:** 7/10/2017 11:05:00 AM**Lab ID:** 1707652-004**Matrix:** SOIL**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	97	30		mg/Kg	20	7/24/2017 9:56:59 PM	32978
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/18/2017 12:51:29 AM	32810
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/18/2017 12:51:29 AM	32810
Surr: DNOP	88.1	70-130		%Rec	1	7/18/2017 12:51:29 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2017 8:09:22 PM	32807
Surr: BFB	102	54-150		%Rec	1	7/17/2017 8:09:22 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/17/2017 8:09:22 PM	32807
Toluene	ND	0.049		mg/Kg	1	7/17/2017 8:09:22 PM	32807
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2017 8:09:22 PM	32807
Xylenes, Total	ND	0.097		mg/Kg	1	7/17/2017 8:09:22 PM	32807
Surr: 4-Bromofluorobenzene	138	66.6-132	S	%Rec	1	7/17/2017 8:09:22 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-05

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 11:15:00 AM

**Lab ID:** 1707652-005

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	7/24/2017 10:09:24 PM	32978
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/18/2017 1:16:13 AM	32810
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/18/2017 1:16:13 AM	32810
Surr: DNOP	70.0	70-130		%Rec	1	7/18/2017 1:16:13 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2017 8:33:16 PM	32807
Surr: BFB	105	54-150		%Rec	1	7/17/2017 8:33:16 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/17/2017 8:33:16 PM	32807
Toluene	ND	0.047		mg/Kg	1	7/17/2017 8:33:16 PM	32807
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2017 8:33:16 PM	32807
Xylenes, Total	ND	0.095		mg/Kg	1	7/17/2017 8:33:16 PM	32807
Surr: 4-Bromofluorobenzene	146	66.6-132	S	%Rec	1	7/17/2017 8:33:16 PM	32807

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-06

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 11:35:00 AM

**Lab ID:** 1707652-006

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	7/24/2017 10:21:49 PM	32978
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/23/2017 3:45:13 PM	32918
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/23/2017 3:45:13 PM	32918
Surr: DNOP	78.5	70-130		%Rec	1	7/23/2017 3:45:13 PM	32918
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2017 8:57:15 PM	32807
Surr: BFB	107	54-150		%Rec	1	7/17/2017 8:57:15 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/17/2017 8:57:15 PM	32807
Toluene	ND	0.048		mg/Kg	1	7/17/2017 8:57:15 PM	32807
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2017 8:57:15 PM	32807
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2017 8:57:15 PM	32807
Surr: 4-Bromofluorobenzene	146	66.6-132	S	%Rec	1	7/17/2017 8:57:15 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-07

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 11:45:00 AM

**Lab ID:** 1707652-007

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	54	30		mg/Kg	20	7/24/2017 11:23:03 PM	32979
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/18/2017 2:05:29 AM	32810
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/18/2017 2:05:29 AM	32810
Surr: DNOP	61.4	70-130	S	%Rec	1	7/18/2017 2:05:29 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2017 9:21:13 PM	32807
Surr: BFB	106	54-150		%Rec	1	7/17/2017 9:21:13 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/17/2017 9:21:13 PM	32807
Toluene	ND	0.049		mg/Kg	1	7/17/2017 9:21:13 PM	32807
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2017 9:21:13 PM	32807
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2017 9:21:13 PM	32807
Surr: 4-Bromofluorobenzene	145	66.6-132	S	%Rec	1	7/17/2017 9:21:13 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-08

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 12:00:00 PM

**Lab ID:** 1707652-008

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	180	30		mg/Kg	20	7/25/2017 12:00:16 AM	32979
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/18/2017 2:30:02 AM	32810
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/18/2017 2:30:02 AM	32810
Surr: DNOP	74.5	70-130		%Rec	1	7/18/2017 2:30:02 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2017 9:45:12 PM	32807
Surr: BFB	108	54-150		%Rec	1	7/17/2017 9:45:12 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/17/2017 9:45:12 PM	32807
Toluene	ND	0.049		mg/Kg	1	7/17/2017 9:45:12 PM	32807
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2017 9:45:12 PM	32807
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2017 9:45:12 PM	32807
Surr: 4-Bromofluorobenzene	146	66.6-132	S	%Rec	1	7/17/2017 9:45:12 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-09

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 12:10:00 PM

**Lab ID:** 1707652-009

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	91	30		mg/Kg	20	7/25/2017 12:37:29 AM	32979
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/18/2017 2:54:50 AM	32810
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/18/2017 2:54:50 AM	32810
Surr: DNOP	59.5	70-130	S	%Rec	1	7/18/2017 2:54:50 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2017 10:09:09 PM	32807
Surr: BFB	111	54-150		%Rec	1	7/17/2017 10:09:09 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/17/2017 10:09:09 PM	32807
Toluene	ND	0.049		mg/Kg	1	7/17/2017 10:09:09 PM	32807
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2017 10:09:09 PM	32807
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2017 10:09:09 PM	32807
Surr: 4-Bromofluorobenzene	151	66.6-132	S	%Rec	1	7/17/2017 10:09:09 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-10

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 12:25:00 PM

**Lab ID:** 1707652-010

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	300	30		mg/Kg	20	7/25/2017 12:49:53 AM	32979
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/18/2017 3:19:33 AM	32810
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/18/2017 3:19:33 AM	32810
Surr: DNOP	59.1	70-130	S	%Rec	1	7/18/2017 3:19:33 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2017 10:33:02 PM	32807
Surr: BFB	111	54-150		%Rec	1	7/17/2017 10:33:02 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/17/2017 10:33:02 PM	32807
Toluene	ND	0.049		mg/Kg	1	7/17/2017 10:33:02 PM	32807
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2017 10:33:02 PM	32807
Xylenes, Total	ND	0.098		mg/Kg	1	7/17/2017 10:33:02 PM	32807
Surr: 4-Bromofluorobenzene	150	66.6-132	S	%Rec	1	7/17/2017 10:33:02 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-11

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 1:00:00 PM

**Lab ID:** 1707652-011

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	150	30		mg/Kg	20	7/25/2017 1:02:18 AM	32979
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/18/2017 4:09:11 AM	32810
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/18/2017 4:09:11 AM	32810
Surr: DNOP	57.7	70-130	S	%Rec	1	7/18/2017 4:09:11 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2017 10:57:03 PM	32807
Surr: BFB	116	54-150		%Rec	1	7/17/2017 10:57:03 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/17/2017 10:57:03 PM	32807
Toluene	ND	0.048		mg/Kg	1	7/17/2017 10:57:03 PM	32807
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2017 10:57:03 PM	32807
Xylenes, Total	ND	0.097		mg/Kg	1	7/17/2017 10:57:03 PM	32807
Surr: 4-Bromofluorobenzene	160	66.6-132	S	%Rec	1	7/17/2017 10:57:03 PM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-12

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 1:15:00 PM

**Lab ID:** 1707652-012

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	570	30		mg/Kg	20	7/25/2017 1:14:43 AM	32979
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/18/2017 4:34:02 AM	32810
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/18/2017 4:34:02 AM	32810
Surr: DNOP	54.7	70-130	S	%Rec	1	7/18/2017 4:34:02 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2017 11:20:57 PM	32807
Surr: BFB	112	54-150		%Rec	1	7/17/2017 11:20:57 PM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/17/2017 11:20:57 PM	32807
Toluene	ND	0.049		mg/Kg	1	7/17/2017 11:20:57 PM	32807
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2017 11:20:57 PM	32807
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2017 11:20:57 PM	32807
Surr: 4-Bromofluorobenzene	156	66.6-132	S	%Rec	1	7/17/2017 11:20:57 PM	32807

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-13

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 1:20:00 PM

**Lab ID:** 1707652-013

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	140	30		mg/Kg	20	7/25/2017 1:27:07 AM	32979
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	1600	100		mg/Kg	10	7/18/2017 4:58:47 AM	32810
Motor Oil Range Organics (MRO)	1500	500		mg/Kg	10	7/18/2017 4:58:47 AM	32810
Surr: DNOP	0	70-130	S	%Rec	10	7/18/2017 4:58:47 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/18/2017 12:57:00 AM	32807
Surr: BFB	120	54-150		%Rec	1	7/18/2017 12:57:00 AM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/18/2017 12:57:00 AM	32807
Toluene	ND	0.049		mg/Kg	1	7/18/2017 12:57:00 AM	32807
Ethylbenzene	ND	0.049		mg/Kg	1	7/18/2017 12:57:00 AM	32807
Xylenes, Total	ND	0.098		mg/Kg	1	7/18/2017 12:57:00 AM	32807
Surr: 4-Bromofluorobenzene	162	66.6-132	S	%Rec	1	7/18/2017 12:57:00 AM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-14

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 1:25:00 PM

**Lab ID:** 1707652-014

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	30	30		mg/Kg	20	7/25/2017 1:39:32 AM	32979
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	1700	98		mg/Kg	10	7/18/2017 5:23:37 AM	32810
Motor Oil Range Organics (MRO)	1600	490		mg/Kg	10	7/18/2017 5:23:37 AM	32810
Surr: DNOP	0	70-130	S	%Rec	10	7/18/2017 5:23:37 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/18/2017 1:21:05 AM	32807
Surr: BFB	130	54-150		%Rec	1	7/18/2017 1:21:05 AM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/18/2017 1:21:05 AM	32807
Toluene	ND	0.050		mg/Kg	1	7/18/2017 1:21:05 AM	32807
Ethylbenzene	ND	0.050		mg/Kg	1	7/18/2017 1:21:05 AM	32807
Xylenes, Total	ND	0.10		mg/Kg	1	7/18/2017 1:21:05 AM	32807
Surr: 4-Bromofluorobenzene	166	66.6-132	S	%Rec	1	7/18/2017 1:21:05 AM	32807

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order **1707652**

Date Reported: **8/8/2017**

**CLIENT:** GHD

**Client Sample ID:** S-088210-36-071017-15

**Project:** Juniper BIP Federal 5

**Collection Date:** 7/10/2017 1:30:00 PM

**Lab ID:** 1707652-015

**Matrix:** SOIL

**Received Date:** 7/13/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	7/25/2017 1:51:57 AM	32979
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>MAB</b>
Diesel Range Organics (DRO)	1000	98		mg/Kg	10	7/18/2017 5:48:23 AM	32810
Motor Oil Range Organics (MRO)	800	490		mg/Kg	10	7/18/2017 5:48:23 AM	32810
Surr: DNOP	0	70-130	S	%Rec	10	7/18/2017 5:48:23 AM	32810
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/18/2017 1:45:07 AM	32807
Surr: BFB	145	54-150		%Rec	1	7/18/2017 1:45:07 AM	32807
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/18/2017 1:45:07 AM	32807
Toluene	ND	0.048		mg/Kg	1	7/18/2017 1:45:07 AM	32807
Ethylbenzene	ND	0.048		mg/Kg	1	7/18/2017 1:45:07 AM	32807
Xylenes, Total	ND	0.096		mg/Kg	1	7/18/2017 1:45:07 AM	32807
Surr: 4-Bromofluorobenzene	168	66.6-132	S	%Rec	1	7/18/2017 1:45:07 AM	32807

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1707652

08-Aug-17

Client: GHD

Project: Juniper BIP Federal 5

Sample ID	MB-32979		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	32979		RunNo:	44475				
Prep Date:	7/24/2017		Analysis Date:	7/24/2017		SeqNo:	1406134		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-32979			SampType:	LCS		TestCode:	EPA Method 300.0: Anions			
Client ID:	LCSS			Batch ID:	32979		RunNo:	44475			
Prep Date:	7/24/2017			Analysis Date:	7/24/2017		SeqNo:	1406135		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	95.0	90	110				

Sample ID	MB-32978		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	32978		RunNo:	44502				
Prep Date:	7/24/2017		Analysis Date:	7/24/2017		SeqNo:	1407130		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-32978		SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS		Batch ID:	32978		RunNo:	44502				
Prep Date:	7/24/2017		Analysis Date:	7/24/2017		SeqNo:	1407131		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	90.6	90	110				

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1707652

08-Aug-17

Client: GHD

Project: Juniper BIP Federal 5

Sample ID	LCS-32810		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32810		RunNo: 44252					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1397734		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	95.0	73.2	114			
Surr: DNOP	4.5		5.000		90.1	70	130			

Sample ID	MB-32810		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32810		RunNo: 44252					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1397735		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.0	70	130			

Sample ID	1707652-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	S-088210-36-071017		Batch ID: 32810		RunNo: 44252					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1398877		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.4	46.90	0	101	55.8	122			
Surr: DNOP	3.3		4.690		70.2	70	130			

Sample ID	1707652-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	S-088210-36-071017		Batch ID:	32810		RunNo:	44338				
Prep Date:	7/14/2017		Analysis Date:	7/19/2017		SeqNo:	1401046		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	51	10	50.20	0	101	55.8	122	6.63	20		
Surr: DNOP	3.7		5.020		73.3	70	130	0	0		

Sample ID	MB-32918		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 32918		RunNo: 44386					
Prep Date:	7/20/2017		Analysis Date: 7/21/2017		SeqNo: 1403470		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.2	70	130			

### Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1707652

08-Aug-17

Client: GHD

Project: Juniper BIP Federal 5

Sample ID	LCS-32918		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 32918		RunNo: 44386					
Prep Date:	7/20/2017		Analysis Date: 7/21/2017		SeqNo: 1403492		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	73.2	114			
Surr: DNOP	4.7		5.000		93.6	70	130			

### Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1707652

08-Aug-17

Client: GHD

Project: Juniper BIP Federal 5

Sample ID	MB-32807		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 32807		RunNo: 44257					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1398063		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	54	150			

Sample ID	LCS-32807		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 32807		RunNo: 44257					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1398064		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.3	76.4	125			
Surr: BFB	1100		1000		112	54	150			

Sample ID	1707652-002AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	S-088210-36-071017		Batch ID: 32807		RunNo: 44257					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1398070		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.32	0	89.4	77.8	128			
Surr: BFB	1100		972.8		118	54	150			

Sample ID	1707652-002AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	S-088210-36-071017		Batch ID:	32807		RunNo:	44257				
Prep Date:	7/14/2017		Analysis Date:	7/17/2017		SeqNo:	1398071		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	22	4.8	23.88	0	91.8	77.8	128	0.863	20		
Surr: BFB	1100		955.1		116	54	150	0	0		

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1707652

08-Aug-17

Client: GHD

Project: Juniper BIP Federal 5

Sample ID	MB-32807		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 32807		RunNo: 44257					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1398110		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.4		1.000		140	66.6	132			S

Sample ID	LCS-32807		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 32807		RunNo: 44257					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1398111		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	113	80	120			
Toluene	1.1	0.050	1.000	0	114	80	120			
Ethylbenzene	1.2	0.050	1.000	0	115	80	120			
Xylenes, Total	3.5	0.10	3.000	0	117	80	120			
Surr: 4-Bromofluorobenzene	1.4		1.000		137	66.6	132			S

Sample ID	1707652-001AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	S-088210-36-071017		Batch ID: 32807		RunNo: 44257					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1398116		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.023	0.9355	0	103	80.9	132			
Toluene	0.99	0.047	0.9355	0.01852	104	79.8	136			
Ethylbenzene	1.0	0.047	0.9355	0	107	79.4	140			
Xylenes, Total	3.1	0.094	2.806	0	109	78.5	142			
Surr: 4-Bromofluorobenzene	1.3		0.9355		144	66.6	132			S

Sample ID	1707652-001AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles					
Client ID:	S-088210-36-071017		Batch ID: 32807		RunNo: 44257					
Prep Date:	7/14/2017		Analysis Date: 7/17/2017		SeqNo: 1398117		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.023	0.9132	0	106	80.9	132	0.331	20	
Toluene	1.0	0.046	0.9132	0.01852	108	79.8	136	1.95	20	
Ethylbenzene	1.0	0.046	0.9132	0	112	79.4	140	1.98	20	
Xylenes, Total	3.1	0.091	2.740	0	114	78.5	142	2.14	20	
Surr: 4-Bromofluorobenzene	1.3		0.9132		145	66.6	132	0	0	S

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified



# Sample Log-In Check List

Client Name: GHD

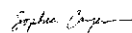

Work Order Number: 1707652

RcptNo: 1

Received By: Sophia Campuzano 7/13/2017 9:50:00 AM

Completed By: Ashley Gallegos 7/13/2017 3:09:23 PM

Reviewed By:  7/14/17

## Chain of Custody

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

## Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0° C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
  
Checked by: \_\_\_\_\_

## Special Handling (if applicable)

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

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

## 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

# Chain-of-Custody Record

Turn-Around Time:

Client: GHD - Albuquerque

☒ Standard ☐ Rush

Mailing Address: 6121 Indian School Rd NE

Project Name: Juniper

Ste 200, Albuquerque NM 87110

Project #:

Phone #: 505-884-0672

088210/36

email or Fax#: Alan.Brandon@ghd.com

Project Manager:

Alan Brandon

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Sampler: Steve Perez

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.1



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 BTEX	Chloride	Air Ruthles (Y or N)
7/10/17	1025	Soil	S-088210-36-071017-SP-01	4oz glass-1	JCE	1707652			X									X	X	
	1040		S-088210-36-071017-SP-02			-002														
	1050		S-088210-36-071017-SP-03			-003														
	1105		S-088210-36-071017-SP-04			-004														
	1115		S-088210-36-071017-SP-05			-005														
	1135		S-088210-36-071017-SP-06			-006														
	1145		S-088210-36-071017-SP-07			-007														
	1200		S-088210-36-071017-SP-08			-008														
	1210		S-088210-36-071017-SP-09			-009														
	1225		S-088210-36-071017-SP-10			-010														
	1300		S-088210-36-071017-SP-11			-011														
	1315		S-088210-36-071017-SP-12			-012														

Date: 7/11/17 Time: 1000 Relinquished by: Steve Perez

Received by: [Signature] Date: 7/11/17 Time: 1000

Remarks:

Sample - 01 Time = 10:25

Date: 7/11/17 Time: 1900 Relinquished by: [Signature]

Received by: [Signature] Date: 07/12/17 Time: 0950



Chain-of-Custody Record		Turn-Around Time:	
Client: <u>GHD-Albuquerque</u>		<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush _____
Mailing Address: <u>Same as pg 1.</u>		Project Name: <u>Juniper BIL Federal #5</u>	
Phone #: <u>505-884-0672</u>		Project #: <u>088210/36</u>	
email or Fax#: <u>Alan.Brandon@ghd.com</u>		Project Manager: <u>Alan Brandon</u>	
QA/QC Package:			
<input type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)		
Accreditation		Sampler: <u>Steven Perez</u>	
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type) _____		Sample Temperature: <u>2.1</u>	

☒ Standard      ☐ Rush

Juniper BIL federal #5

088210/36

Alan Brandon

Steven Perez

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.1

[illegible]

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975      Fax 505-345-4107

## Analysis Request

[illegible]

Date: 7/11/17	Time: 1000	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date: 7/11/17	Time: 1000
Date: 7/11/17	Time: 1900	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date: 07/12/17	Time: 0950

Remarks:
----------

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

August 23, 2017

Bernie Bockish

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Juniper Fed 5

OrderNo.: 1708880

Dear Bernie Bockish:

Hall Environmental Analysis Laboratory received 12 sample(s) on 8/12/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order: 1708880

Date Reported: 8/23/2017

**CLIENT:** GHD  
**Project:** Juniper Fed 5

**Lab Order:** 1708880

**Lab ID:** 1708880-001

**Collection Date:** 8/8/2017 3:20:00 PM

**Client Sample ID:** S-088210-36-080817-SP-TP-9-4'

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/17/2017 5:29:17 PM	33403
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/17/2017 5:29:17 PM	33403
Surr: DNOP	97.0	70-130		%Rec	1	8/17/2017 5:29:17 PM	33403
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/17/2017 10:09:38 PM	33392
Surr: BFB	82.0	54-150		%Rec	1	8/17/2017 10:09:38 PM	33392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/17/2017 10:09:38 PM	33392
Toluene	ND	0.046		mg/Kg	1	8/17/2017 10:09:38 PM	33392
Ethylbenzene	ND	0.046		mg/Kg	1	8/17/2017 10:09:38 PM	33392
Xylenes, Total	ND	0.093		mg/Kg	1	8/17/2017 10:09:38 PM	33392
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	8/17/2017 10:09:38 PM	33392

**Lab ID:** 1708880-002

**Collection Date:** 8/8/2017 3:24:00 PM

**Client Sample ID:** S-088210-36-080817-SP-TP-7-6'

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/17/2017 5:51:55 PM	33403
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	8/17/2017 5:51:55 PM	33403
Surr: DNOP	95.7	70-130		%Rec	1	8/17/2017 5:51:55 PM	33403
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/17/2017 10:33:41 PM	33392
Surr: BFB	82.3	54-150		%Rec	1	8/17/2017 10:33:41 PM	33392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/17/2017 10:33:41 PM	33392
Toluene	ND	0.047		mg/Kg	1	8/17/2017 10:33:41 PM	33392
Ethylbenzene	ND	0.047		mg/Kg	1	8/17/2017 10:33:41 PM	33392
Xylenes, Total	ND	0.094		mg/Kg	1	8/17/2017 10:33:41 PM	33392
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	8/17/2017 10:33:41 PM	33392

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order: 1708880

Date Reported: 8/23/2017

**CLIENT:** GHD  
**Project:** Juniper Fed 5

**Lab Order:** 1708880

**Lab ID:** 1708880-003

**Collection Date:** 8/8/2017 3:28:00 PM

**Client Sample ID:** S-088210-36-080817-SP-TP-9-6'

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/17/2017 6:14:25 PM	33403
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/17/2017 6:14:25 PM	33403
Surr: DNOP	101	70-130		%Rec	1	8/17/2017 6:14:25 PM	33403
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/17/2017 10:57:34 PM	33392
Surr: BFB	82.0	54-150		%Rec	1	8/17/2017 10:57:34 PM	33392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/17/2017 10:57:34 PM	33392
Toluene	ND	0.047		mg/Kg	1	8/17/2017 10:57:34 PM	33392
Ethylbenzene	ND	0.047		mg/Kg	1	8/17/2017 10:57:34 PM	33392
Xylenes, Total	ND	0.093		mg/Kg	1	8/17/2017 10:57:34 PM	33392
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	1	8/17/2017 10:57:34 PM	33392

**Lab ID:** 1708880-004

**Collection Date:** 8/8/2017 3:30:00 PM

**Client Sample ID:** S-088210-36-080817-SP-TP-7-4'

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/17/2017 6:37:25 PM	33403
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/17/2017 6:37:25 PM	33403
Surr: DNOP	89.3	70-130		%Rec	1	8/17/2017 6:37:25 PM	33403
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/17/2017 11:21:21 PM	33392
Surr: BFB	82.6	54-150		%Rec	1	8/17/2017 11:21:21 PM	33392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	8/17/2017 11:21:21 PM	33392
Toluene	ND	0.047		mg/Kg	1	8/17/2017 11:21:21 PM	33392
Ethylbenzene	ND	0.047		mg/Kg	1	8/17/2017 11:21:21 PM	33392
Xylenes, Total	ND	0.093		mg/Kg	1	8/17/2017 11:21:21 PM	33392
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	8/17/2017 11:21:21 PM	33392

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

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

**Analytical Report**

Lab Order: 1708880

Date Reported: 8/23/2017

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD  
**Project:** Juniper Fed 5

**Lab Order:** 1708880**Lab ID:** 1708880-005**Collection Date:** 8/9/2017 11:18:00 AM**Client Sample ID:** S-088210-36-080917-SP-TP-8-6'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	94	9.2		mg/Kg	1	8/17/2017 6:59:36 PM	33403
Motor Oil Range Organics (MRO)	100	46		mg/Kg	1	8/17/2017 6:59:36 PM	33403
Surr: DNOP	94.1	70-130		%Rec	1	8/17/2017 6:59:36 PM	33403
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/18/2017 12:56:40 AM	33392
Surr: BFB	79.1	54-150		%Rec	1	8/18/2017 12:56:40 AM	33392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	8/18/2017 12:56:40 AM	33392
Toluene	ND	0.050		mg/Kg	1	8/18/2017 12:56:40 AM	33392
Ethylbenzene	ND	0.050		mg/Kg	1	8/18/2017 12:56:40 AM	33392
Xylenes, Total	ND	0.099		mg/Kg	1	8/18/2017 12:56:40 AM	33392
Surr: 4-Bromofluorobenzene	107	66.6-132		%Rec	1	8/18/2017 12:56:40 AM	33392

**Lab ID:** 1708880-006**Collection Date:** 8/9/2017 11:22:00 AM**Client Sample ID:** S-088210-36-080917-SP-TP-8-8'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	41	9.8		mg/Kg	1	8/17/2017 7:22:12 PM	33403
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/17/2017 7:22:12 PM	33403
Surr: DNOP	86.6	70-130		%Rec	1	8/17/2017 7:22:12 PM	33403
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/18/2017 1:20:42 AM	33392
Surr: BFB	84.5	54-150		%Rec	1	8/18/2017 1:20:42 AM	33392
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	8/18/2017 1:20:42 AM	33392
Toluene	ND	0.047		mg/Kg	1	8/18/2017 1:20:42 AM	33392
Ethylbenzene	ND	0.047		mg/Kg	1	8/18/2017 1:20:42 AM	33392
Xylenes, Total	ND	0.095		mg/Kg	1	8/18/2017 1:20:42 AM	33392
Surr: 4-Bromofluorobenzene	107	66.6-132		%Rec	1	8/18/2017 1:20:42 AM	33392

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

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

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order: 1708880

Date Reported: 8/23/2017

**CLIENT:** GHD  
**Project:** Juniper Fed 5

**Lab Order:** 1708880

**Lab ID:** 1708880-007 **Collection Date:** 8/9/2017 11:36:00 AM

**Client Sample ID:** S-088210-36-080917-SP-TP-10-1' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	39	30		mg/Kg	20	8/23/2017 2:51:30 AM	33500

**Lab ID:** 1708880-008 **Collection Date:** 8/9/2017 11:39:00 AM

**Client Sample ID:** S-088210-36-080917-SP-TP-10-4' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	61	30		mg/Kg	20	8/23/2017 3:03:54 AM	33500

**Lab ID:** 1708880-009 **Collection Date:** 8/9/2017 11:42:00 AM

**Client Sample ID:** S-088210-36-080917-SP-TP-11-1' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	ND	30		mg/Kg	20	8/23/2017 3:16:19 AM	33500

**Lab ID:** 1708880-010 **Collection Date:** 8/9/2017 11:45:00 AM

**Client Sample ID:** S-088210-36-080917-SP-TP-11-4' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	140	30		mg/Kg	20	8/23/2017 3:28:43 AM	33500

**Lab ID:** 1708880-011 **Collection Date:** 8/9/2017 11:59:00 AM

**Client Sample ID:** S-088210-36-080917-SP-TP-12-1' **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	ND	30		mg/Kg	20	8/23/2017 3:41:08 AM	33500

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 9
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified	



**Analytical Report**Lab Order: **1708880**Date Reported: **8/23/2017****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** GHD**Lab Order:** 1708880**Project:** Juniper Fed 5**Lab ID:** 1708880-012**Collection Date:** 8/9/2017 12:02:00 PM**Client Sample ID:** S-088210-36-080917-SP-TP-12-4'**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	250	31		mg/Kg	20	8/23/2017 3:53:33 AM	33500

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1708880

23-Aug-17

Client: GHD  
Project: Juniper Fed 5

Sample ID	MB-33500	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	33500	RunNo:	45131					
Prep Date:	8/22/2017	Analysis Date:	8/22/2017	SeqNo:	1429562	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-33500	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	33500	RunNo:	45131					
Prep Date:	8/22/2017	Analysis Date:	8/22/2017	SeqNo:	1429563	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	90	110			

### Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1708880

23-Aug-17

**Client:** GHD  
**Project:** Juniper Fed 5

Sample ID	LCS-33403		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 33403		RunNo: 45010					
Prep Date:	8/16/2017		Analysis Date: 8/17/2017		SeqNo: 1424691		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.5	73.2	114			
Surr: DNOP	5.0		5.000		100	70	130			

Sample ID	MB-33403		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 33403		RunNo: 45010					
Prep Date:	8/16/2017		Analysis Date: 8/17/2017		SeqNo: 1424693		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

### Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1708880

23-Aug-17

**Client:** GHD  
**Project:** Juniper Fed 5

Sample ID <b>MB-33392</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>33392</b>			RunNo: <b>45024</b>						
Prep Date: <b>8/16/2017</b>	Analysis Date: <b>8/17/2017</b>			SeqNo: <b>1425199</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		83.9	54	150			

Sample ID <b>LCS-33392</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>33392</b>			RunNo: <b>45024</b>						
Prep Date: <b>8/16/2017</b>	Analysis Date: <b>8/17/2017</b>			SeqNo: <b>1425200</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	76.4	125			
Surr: BFB	960		1000		95.8	54	150			

### Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1708880

23-Aug-17

**Client:** GHD  
**Project:** Juniper Fed 5

Sample ID	MB-33392		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 33392		RunNo: 45024					
Prep Date:	8/16/2017		Analysis Date: 8/17/2017		SeqNo: 1425230		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		117	66.6	132			

Sample ID	LCS-33392		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 33392		RunNo: 45024					
Prep Date:	8/16/2017		Analysis Date: 8/17/2017		SeqNo: 1425231		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.5	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	66.6	132			

### Qualifiers:

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



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

## Sample Log-In Check List

Client Name: GHD

Work Order Number: 1708880

RcptNo: 1

Received By: Andy Freeman 8/12/2017 10:05:00 AM

Completed By: Ashley Gallegos 8/15/2017 12:08:23 PM

Reviewed By:

### Chain of Custody

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

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
( $<2$  or  $>12$  unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

# Chain-of-Custody Record

Client: GHD - Albuquerque

Mailing Address: 6121 Indian School Rd NE  
Ste 200, Albuquerque, NM, 87110

Phone #: 505-884-0672

email or Fax#: Alan.Brandon@ghd.com

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

Accreditation  
☐ NELAP ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

Turn-Around Time:  
☒ Standard ☐ Rush \_\_\_\_\_

Project Name:  
Juniper Fed #5

Project #:  
088210/36

Project Manager:  
Alan Brandon

Sampler: Steve Perez

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.4 °C



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 Chloride	8021 BTEX	Air Bubbles (Y or N)
8/8/17	1520	Soil	S-088210-36-080817-SP-TP-9-4	4oz glass-1	ICE	170888D -001			X										X	
	1524		S-088210-36-080817-SP-TP-7-6			-002			X										X	
	1528		S-088210-36-080817-SP-TP-9-6			-003			X										X	
	1530		S-088210-36-080817-SP-TP-7-4			-004			X										X	
8/9/17	1118		S-088210-36-080917-SP-TP-8-6			-005			X										X	
	1122		S-088210-36-080917-SP-TP-8-8			-006			X										X	
	1136		S-088210-36-080917-SP-TP-10-1			-007												X		
	1139		S-088210-36-080917-SP-TP-10-4			-008												X		
	1142		S-088210-36-080917-SP-TP-11-1			-009												X		
	1145		S-088210-36-080917-SP-TP-11-4			-010												X		
	1159		S-088210-36-080917-SP-TP-12-1			-011												X		
	1202		S-088210-36-080917-SP-TP-12-4			-012												X		

Date: 8/10/17 Time: 0805 Relinquished by: Steven Perez

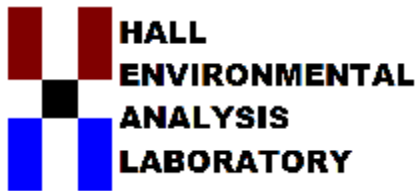
Received By: [Signature] Date: 8/10/17 Time: 0805

Remarks:

Date: 8/10/17 Time: 1900 Relinquished by: [Signature]

Received By: [Signature] Date: 8/12/17 Time: 1005

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

September 11, 2017

Alan Brandon

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Juniper BIP Fed #5

OrderNo.: 1708H69

Dear Alan Brandon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/31/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order: 1708H69

Date Reported: 9/11/2017

**CLIENT:** GHD  
**Project:** Juniper BIP Fed #5

**Lab Order:** 1708H69

**Lab ID:** 1708H69-001

**Collection Date:** 8/28/2017 2:14:00 PM

**Client Sample ID:** S-088210-36-082817-SP-TP-6-10'

**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	250	30		mg/Kg	20	9/7/2017 7:52:09 PM	33760

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708H69

11-Sep-17

Client: GHD

Project: Juniper BIP Fed #5

Sample ID	MB-33760	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	33760	RunNo:	45475					
Prep Date:	9/7/2017	Analysis Date:	9/7/2017	SeqNo:	1442638	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified



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

## Sample Log-In Check List

Client Name: GHD

Work Order Number: 1708H69

RcptNo: 1

Received By: Erin Melendrez 8/31/2017 9:45:00 AM

Completed By: Ashley Gallegos 8/31/2017 1:17:24 PM

Reviewed By: *RC*

8/31/17

*uug*

*Ag*

### Chain of Custody

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

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: \_\_\_\_\_  
( $<2$  or  $>12$  unless noted)

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

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

### Special Handling (if applicable)

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

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: <u>GHD - Albuquerque</u>	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Mailing Address: <u>6121 Indian School Rd NE Ste 200</u>	Project Name: <u>Juniper Fed #5</u>	
<u>Albuquerque, NM, 87110</u>	Project #: <u>688210/36</u>	
Phone #: <u>505-884-0672</u>	Project Manager: <u>Alan Brandon</u>	
email or Fax#: <u>Alan.Brandon@ghd.com</u>		
QA/QC Package:		
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		
Accreditation		
<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____		
<input type="checkbox"/> EDD (Type) _____		
	Sampler: <u>Steve Perez</u>	
	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Sample Temperature: <u>7.4</u>	

☒ Standard      ☐ Rush

ect Name: <sup>BIP</sup> Juniper Fed #5

688210/36

Alan Brandon

Steve Krenz

Sample Temperature: 7.4



4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975      Fax 505-345-4107

[illegible][illegible]

Date:	Time:	Relinquished by:
8/28/17	8:45	Steven Perez

Received by:

8/28/17 0845

Remarks:

Date \_\_\_\_\_ Time \_\_\_\_\_

8/31/17 0945

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Courier

## Appendix C

# **Disposal Manifests**

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

119522

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO.

012

3. COMPANY NAME

4. ADDRESS

5. PICK-UP DATE

PHONE NO.

CITY

STATE

ZIP

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS

No.

Type

9. TOTAL QUANTITY

10. UNIT Wt/Vol.

11. TEXAS WASTE ID #

a.

b.

c.

d.

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

### 16. TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

### 17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

### 18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

### 19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME



# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

119522

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO.

G

3. COMPANY NAME

4. ADDRESS

5. PICK-UP DATE

PHONE NO.

CITY

STATE

ZIP

6. TNRCC I.D. NO.

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS

No.

Type

9. TOTAL

QUANTITY

10. UNIT

Wt/Vol.

11. TEXAS

WASTE ID #

N

a.

E

c.

R

d.

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

A

14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

T

O

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16.

### TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

R

A

N

S

P

O

R

T

E

R

S

17.

### TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

D  
F  
I  
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C  
I  
P  
L  
I  
N  
A  
R  
Y

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

TRANSPORTER'S MANIFEST

MANIFEST

#

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Juniper BIP Fed #5  
Lea County, NM

LOCATION OF MATERIAL:

32.24898 -103.99232

API# 30-015-28577

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC  
6222 S Bronco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

FACILITY CONTACT:

Steve Perez, Site Supervisor  
GHD

575-689-5782

CONTACT:

DATE:

SIGNATURE OF



On behalf of EOG

Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER:

DISPOSAL SITE:

Lea Land LLC  
Mile Marker 64, Hwy 62/180 East  
Carlsbad, NM, 88220

DATE:

9-1-17

SIGNATURE:





# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

SDR

### NON-HAZARDOUS WASTE MANIFEST

NO

119520

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO.

020

G

3. COMPANY NAME  
E.O.G. Resources

4. ADDRESS  
5509 Champion Dr.

5. PICK-UP DATE  
9/1/2017

E

PHONE NO.  
(432) 686-3706

CITY  
Midland

STATE  
TX

ZIP  
79706

6. TNRCC I.D. NO.

N

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS  
No. Type

9. TOTAL  
QUANTITY

10. UNIT  
Wt/Vol.

11. TEXAS  
WASTE ID #

a. Non-Regulated, Non-Hazardous Waste

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b.

c.

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d. 43,880 40,340

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12. COMMENTS OR SPECIAL INSTRUCTIONS:

UNPER SP FED #5

13. WASTE PROFILE NO.

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14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-1010

O

15. **GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

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16.

### TRANSPORTER (1)

NAME:

SDR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

SHANNON RUSH

(575) 441-7890

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18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

### TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

119520

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. 120

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3. COMPANY NAME

E.O. Resources

PHONE NO.

(512) 650-3705

4. ADDRESS

5500 Champion Dr

CITY

Midland

STATE

TX

ZIP

79706

5. PICK-UP DATE

9/1/2017

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a.

b.

c.

d.

12. COMMENTS OR SPECIAL INSTRUCTIONS:

SHIPPER SHIPPED #5

8. CONTAINERS

No.

Type

9. TOTAL

QUANTITY

10. UNIT

Wt/Vol.

11. TEXAS

WASTE ID #

14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

KIECHGHEROS

PHONE NO

575-887-4048

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

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### TRANSPORTER (1)

NAME:

SDH ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

### TRANSPORTER (2)

NAME:

SHANNON RUSH

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

## MANIFEST

#

#### LOCATION OF MATERIAL:

32.24898    -103.99232

API# 30-015-28577

SDR Enterprises LLC  
6222 S Bronco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:  
Non-Hazardous Contaminated Soil

QUANTITY:

FACILITY CONTACT:  
Steve Perez, Site Supervisor  
GHD

575-689-5782  
CONTACT:

DATE:

SIGNATURE OF \_\_\_\_\_

Steven Perry

On behalf of EOG

## Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER: \_\_\_\_\_

DATE:

SIGNATURE:

Sea Land LLC  
Mile Marker 64, Hwy 62/180 East  
Carlsbad, NM, 88220

TRANSPORTER'S MANIFEST

MANIFEST

#

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Juniper BIP Fed #5  
Lea County, NM

LOCATION OF MATERIAL:

32.24898 -103.99232

API# 30-015-28577

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC  
6222 S Bronco, Hobbs, NM, 88240

DISCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

FACILITY CONTACT:

Steve Perez, Site Supervisor  
GHD

575-689-5782

CONTACT:

DATE:

SIGNATURE OF



On behalf of EOG

Resources

NAME OF TRANSPORTER: (DRIVER)

DATE: 9/1/17

SIGNATURE OF DRIVER:



DISPOSAL SITE:

Lea Land LLC  
Mile Marker 64, Hwy 62/180 East  
Carlsbad, NM, 88220

DATE:

9-1-17

SIGNATURE:





# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

SDR

### NON-HAZARDOUS WASTE MANIFEST

NO

119521

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO.

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3. COMPANY NAME  
E.O.G. Resources

PHONE NO.  
(432) 686-3705

4. ADDRESS  
5509 Champion Dr.

CITY  
Midland

STATE  
TX

ZIP  
79706

5. PICK-UP DATE  
9/1/2017

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. ~~Non-Regulated, Non-Hazardous Waste~~

b.

c.

d.

43,300 41,960

8. CONTAINERS  
No. Type

9. TOTAL  
QUANTITY

10. UNIT  
Wt/Vol.

11. TEXAS  
WASTE ID #

12. COMMENTS OR SPECIAL INSTRUCTIONS:

JUNIPER DIP FED #5

13. WASTE PROFILE NO.

14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

JOE ONTIVEROS

PHONE NO

575-887-4048

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

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### TRANSPORTER (1)

NAME:

SDR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

SHANNON RUSK

EMERGENCY PHONE:

(575) 441-7330

17.

### TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

9/1/2017

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

9/1/2017

11:45

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

119521

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. 006

G

3. COMPANY NAME  
E.O. O. Resources

4. ADDRESS  
5500 Champion Dr.

5. PICK-UP DATE  
9/1/2017

PHONE NO.  
(335) 606-3705

CITY  
Midland

STATE  
TX

ZIP  
79706

6. TNRCC I.D. NO.

E

7. NAME OR DESCRIPTION OF WASTE SHIPPED:  
Non-Regulated Non-Hazardous Waste

8. CONTAINERS  
No. Type

9. TOTAL  
QUANTITY

10. UNIT  
Wt/Vol.

11. TEXAS  
WASTE ID #

N

a.

b.

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c.

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d.

12. COMMENTS OR SPECIAL INSTRUCTIONS:  
UNIFORM Labeled #5

13. WASTE PROFILE NO.

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14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME  
THE OILTRIVERS

PHONE NO.  
575-807-1015

24-HOUR EMERGENCY NO.

T

O

15. **GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

SIGNATURE

DATE

T

16.

### TRANSPORTER (1)

NAME:  
SCR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:  
SHANNON RUSK

EMERGENCY PHONE:  
(575) 417-7330

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

### TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

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PERMIT NO.

WM-01-035 - New Mexico

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

TRANSPORTER'S MANIFEST

MANIFEST

#

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Juniper BIP Fed #5  
Lea County, NM

LOCATION OF MATERIAL:

32.24898 -103.99232

API# 30-015-28577

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC  
6222 S Bronco, Hobbs, NM, 88240

DISCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

FACILITY CONTACT:

Steve Perez, Site Supervisor  
GHD

575-689-5782

CONTACT:

DATE:

SIGNATURE OF



On behalf of EOG

Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER:

DISPOSAL SITE:

Lea Land LLC  
Mile Marker 64, Hwy 62/180 East  
Carlsbad, NM, 88220

DATE:

SIGNATURE:

TRANSPORTER'S MANIFEST

MANIFEST

#

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Juniper BIP Fed #5  
Lea County, NM

LOCATION OF MATERIAL:

32.24898 -103.99232

API# 30-015-28577

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC  
6222 S Bronco, Hobbs, NM, 88240

DISCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

FACILITY CONTACT:

Steve Perez, Site Supervisor  
GHD

575-689-5782

CONTACT:

DATE:

SIGNATURE OF



On behalf of EOG

Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER:

DISPOSAL SITE:

Lea Land LLC  
Mile Marker 64, Hwy 62/180 East  
Carlsbad, NM, 88220

DATE:

SIGNATURE:



TRANSPORTER'S MANIFEST

MANIFEST

#

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Juniper BIP Fed #5  
Lea County, NM

LOCATION OF MATERIAL:

32.24898 -103.99232

API# 30-015-28577

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC  
6222 S Bronco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

FACILITY CONTACT:

Steve Perez, Site Supervisor  
GHD

575-689-5782

CONTACT:

DATE:

SIGNATURE OF




On behalf of EOG

Resources

NAME OF TRANSPORTER: (DRIVER)

DATE: 9-1-17

SIGNATURE OF DRIVER:



DISPOSAL SITE:

Lea Land LLC  
Mile Marker 64, Hwy 62/180 East  
Carlsbad, NM, 88220

DATE:

9-1-17

SIGNATURE:



TRANSPORTER'S MANIFEST

MANIFEST

#

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Juniper BIP Fed #5  
Lea County, NM

LOCATION OF MATERIAL:

32.24898 -103.99232

API# 30-015-28577

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC  
6222 S Bronco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

FACILITY CONTACT:

Steve Perez, Site Supervisor  
GHD

575-689-5782

CONTACT:

DATE:

SIGNATURE OF



On behalf of EOG

Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

9-1-17

SIGNATURE OF DRIVER:



DISPOSAL SITE:

Lea Land LLC  
Mile Marker 64, Hwy 62/180 East  
Carlsbad, NM, 88220

DATE:

9-1-17

SIGNATURE:



# TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Uniper BIP Fed #5  
Lea County, NM  
EPI# 97-015-28577

LOCATION OF MATERIAL:

32.24898 -103.99232

TRANSPORTER NAME & ADDRESS:

OR Enterprises LLC  
3222 S Bronco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:

Non-hazardous Contaminated Soil

QUANTITY:

CONTACT:

Steve Perez, Site Supervisor

TO:

15-6-2017

DATE:

SIGNATURE OF CONTACT:



On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER:



DATE:

DATE:

SIGNATURE:

DATE:

DATE: 10/11/17, 10/12/18

DATE: 10/12/18

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

119631

1. PAGE OF

2. TRAILER NO.

1720

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3. COMPANY NAME

E.O.S. Resources

PHONE NO.

(432) 566-3705

4. ADDRESS

3509 Champion Dr.

CITY

Midland

STATE

TX

ZIP

79705

5. PICK-UP DATE

9/14/2017

6. TNRC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d.

12. COMMENTS OR SPECIAL INSTRUCTIONS:

UNIFORM SHIPPED #3

8. CONTAINERS

No.

Type

9. TOTAL

QUANTITY

10. UNIT

Wt/Vol.

11. TEXAS

WASTE ID #

1

CM

12. COMMENTS OR SPECIAL INSTRUCTIONS:

UNIFORM SHIPPED #3

13. WASTE PROFILE NO.

14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

JOSE ONTIVEROS

PHONE NO

575-567-4048

24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

16. TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: SHANNON RUSH

EMERGENCY PHONE:

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

9/14/2017

12:15

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

119631

1, PAGE \_\_\_ OF \_\_\_

2, TRAILER NO.

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3. COMPANY NAME

E.O.S. Resources

PHONE NO.

(132) 680-3708

4. ADDRESS

5509 Champion Ct

CITY

Midland

STATE

TX

ZIP

79706

5. PICK-UP DATE

9/14/2017

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d.

12. COMMENTS OR SPECIAL INSTRUCTIONS:

UNIPER OIL FIELD #6

8. CONTAINERS

No.

Type

9. TOTAL

QUANTITY

10. UNIT

Wt/Vol

11. TEXAS

WASTE ID #

14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

DE GONZALEZ

PHONE NO

575-887-3018

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

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### TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17.

### TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

# TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Juniper BIP Fed-#5  
Lea County, NM  
API# 30-015-28577

LOCATION OF MATERIAL:

32.24898 -103.99232

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC  
6222 S Bronco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

17,466

FACILITY CONTACT:

Dave Perez, Site Supervisor  
CDD  
505-633-5782

DATE:

SIGNATURE OF CONTACT:

*Dave Perez*

On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER:

DISPOSAL SITE:

La Land LLC  
Mile Marker 64, Hwy 62/180 East  
Brisbad, NM, 88220

DATE:

SIGNATURE:

*J. Donzaly*



# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

**119630**

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. **021**

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3. COMPANY NAME

**E.O.O. Resources**

PHONE NO.

**(405) 898-3705**

4. ADDRESS

**5509 Champion Dr**

CITY

**Midland**

STATE

**TX**

ZIP

**79706**

5. PICK-UP DATE

**9/14/2017**

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

**a. Non-Regulated, Non Hazardous Waste**

**b.**

**c.**

**d. WT 51,100 48,780**

8. CONTAINERS

No.

Type

9. TOTAL

QUANTITY

10. UNIT

Wt/Vol.

11. TEXAS

WASTE ID #

A

12. COMMENTS OR SPECIAL INSTRUCTIONS:

**JUNIPER BIP FED #5**

13. WASTE PROFILE NO.

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14.

**IN CASE OF EMERGENCY OR SPILL, CONTACT**

NAME

**JOE ONTIVEROS**

PHONE NO

**575-887-4048**

24-HOUR EMERGENCY NO.

O

**15. GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

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16. **TRANSPORTER (1)**

NAME:

**SDR ENTERPRISE LLC**

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: **SHANNON RUSK**

EMERGENCY PHONE:

**(575) 441-7330**

17. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

**9/14/2017**

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

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**Lea Land, LLC**

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM**

PHONE:

**575-887-4048**

PERMIT NO.

**WM-01-035 - New Mexico**

20. COMMENTS

**21. DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

**9/14/2017**

TIME

**11:40**

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

119630

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2. TRAILER NO.

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3. COMPANY NAME

PHONE NO.

4. ADDRESS

CITY

STATE

ZIP

5. PICK-UP DATE

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS  
No. Type

9. TOTAL  
QUANTITY

10. UNIT  
Wt/Vol.

11. TEXAS  
WASTE ID #

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d.

12. COMMENTS OR SPECIAL INSTRUCTIONS:

13. WASTE PROFILE NO.

14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

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16.

### TRANSPORTER (1)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

17.

### TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME



# TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Aniper BIP Fed #5  
Lea County, NM  
CPI# 80-015-28577

LOCATION OF MATERIAL:

32.24898 -103.99232

TRANSPORTER NAME & ADDRESS:

DOB Enterprises LLC  
222 S Blanco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:

Non-hazardous Contaminated Soil

QUANTITY:

20

CONTACT INFORMATION:

Steve Perez, Site Supervisor

DOB

DOB

DATE:

SIGNATURE OF CONTACT:



On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

SIGNATURE OF DRIVER:

9-14-17  




DATE:

DATE:

SIGNATURE:

DOB

DOB

DOB



# TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources  
Juniper BIP Fed #5  
Lea County, NM  
CPI# 50-005-28577

LOCATION OF MATERIAL:

32.24898 -103.99232

TRANSPORTER NAME & ADDRESS:

FOR Enterprises LLC  
6222 S Stonco, Hobbs, NM, 88240

DESCRIPTION OF WASTE:

Non-hazardous Contaminated Soil

QUANTITY:

49,540

CONTACT INFORMATION:

Steve Perez, Site Supervisor

TO:

Steve Perez

DATE:

SIGNATURE OF CONTACT:



On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

9-14-2011

SIGNATURE OF DRIVER:

Jose Mendora

DATE:

9-14-2011

Weight of waste: 62/180 lbs

Weight of waste: 62/180 lbs

DATE:

SIGNATURE:



# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

119632

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2. TRAILER NO. 006

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3. COMPANY NAME

E.O.G. Resources

PHONE NO.

(432) 888-3705

4. ADDRESS

5509 Champion Dr

CITY

Midland

STATE

TX

ZIP

79706

5. PICK-UP DATE

9/14/2017

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d. WT 54080

8. CONTAINERS

No.

Type

1

CM

9. TOTAL

QUANTITY

10. UNIT

Wt/Vol.

11. TEXAS

WASTE ID #

12. COMMENTS OR SPECIAL INSTRUCTIONS:

JUNIPER ZIP FED #6

13. WASTE PROFILE NO.

14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

JOE ONTIVEROS

PHONE NO

575-887-4048

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

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16. TRANSPORTER (1)

NAME:

SOR ENTERPRISE LLC

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: SHANNON RUSK

EMERGENCY PHONE:

(575) 411-7330

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

9/14/2017

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO

119632

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2. TRAILER NO.

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3. COMPANY NAME

E.O. & Resources

PHONE NO.

(405) 656-3705

4. ADDRESS

8700 Chisholm Dr.

CITY

Midland

STATE

TX

ZIP

79706

5. PICK-UP DATE

07/14/2017

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non-Hazardous Waste

b.

c.

d. 54,080

8. CONTAINERS  
No. Type

1

CM

9. TOTAL  
QUANTITY

10. UNIT  
Wt/Vol.

11. TEXAS  
WASTE ID #

12. COMMENTS OR SPECIAL INSTRUCTIONS:

JUNPER BIP FIB #5

13. WASTE PROFILE NO.

14.

### IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE CONTINEROS

575-887-4048

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16. **TRANSPORTER (1)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: SHANNON RUSH

EMERGENCY PHONE: (575) 415-7330

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

17. **TRANSPORTER (2)**

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
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PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

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AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME



# TRANSPORTER'S MANIFEST

MANIFEST #

SHIPPING FACILITY NAME & ADDRESS:

EOG Resources

Liniper BIP Fed #5

Lea County, NM

EPI# 90-015-28577

LOCATION OF MATERIAL:

32.24898 -103.99232

TRANSPORTER NAME & ADDRESS:

SDR Enterprises LLC

6222 S. Stricko, Hobbs, NM, 88240

SECTION OF WASTE:

Non-Hazardous Contaminated Soil

QUANTITY:

20

CONTACT DATA:

Eve Perez, Site Supervisor

10

505-611-1122

DATE:

SIGNATURE OF CONTACT:



On behalf of EOG Resources

NAME OF TRANSPORTER: (DRIVER)

DATE:

9-14-17

SIGNATURE OF DRIVER:



DATE OF DELIVERY:

9-14-17

DATE:

SIGNATURE:



Weight of Material: 62/180 tons

Weight of Waste: 880 lbs

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised April 3, 2017

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company EOG Resources, Inc. (Formerly Yates Petroleum Corporation)	Contact Zane Kurtz
Address 5509 Champions Dr.	Telephone No. 432-425-2023
Facility Name Juniper BIP Federal #5	Facility Type Battery

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-28557
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**LOCATION OF RELEASE**

Unit Letter F	Section 4	Township 24S	Range 29E	Feet from the 1780	North/South Line North	Feet from the 1650	East/West Line West	County Eddy
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Latitude 32.24898 Longitude 103.99232 NAD83

**NATURE OF RELEASE**

Type of Release Produced Water and crude oil	Volume of Release 60 B/PW, 80 B/O	Volume Recovered 85 B/PW, 78 B/O
Source of Release Heater treater	Date and Hour of Occurrence 1/1/2016; AM	Date and Hour of Discovery 1/1/2016; AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD – Heather Patterson and Mike Bratcher BLM – Jim Amos	
By Whom? Amber Griffin	Date and Hour: 1/1/2016, 2:15PM via email	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully. \*N/A

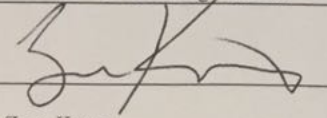
Describe Cause of Problem and Remedial Action Taken.\*

Crude oil and produced water were released from the heater manhole gasket. A rubber gasket used as a seal between the fire tube & heater treater shell Failed and leaked either because of the cold weather and/or old age. Vacuum trucks were called to recover the release fluids and a rustabout crew was Called to replace the seal on the heater treater.

Describe Area Affected and Cleanup Action Taken.\* The majority of the release was contained within a lined/bermed battery, however there was an open berm drain valve on the northwest corner of the berm and crude oil and produced water was released into the pasture. The release went out into the pasture Approximately 200' off to the northwest corner. The berm drain valve was cut and capped off to keep this from happening in the future. Assessment was performed to determine the vertical and horizontal impacts to soil. Approximately 124 tons of hydrocarbon and chloride impacted soils were excavated and disposed of at Lea Land LLC.

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

**OIL CONSERVATION DIVISION**

Signature: 	Approved by Environmental Specialist:		
Printed Name: Zane Kurtz			
Title: Sr. Safety and Environmental Rep	Approval Date:	Expiration Date:	
E-mail Address: zane_kurtz@eogresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>3-6-18</u>	Phone: <u>432 425 2027</u>		

\* Attach Additional Sheets If Necessary