

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

AIC Brand

Alan Brandon Senior Project Manager

AB/pd

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

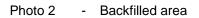
Semarch Sont

Bernard Bockisch Senior Project Manager



#### Photo 1 - Backfilled area







## Site Photographs

GHD |Juniper BIP Federal #5 Closure Request | 088210 (36) | Page 1

Reference No. 088210-36



October 16, 2017

Mr. Zane Kurtz Sr. Safety and Environmental Representative 5509 Champions Dr. Midland, TX 79706 VIA E-Mail: 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
Ranking Criteria Total Score	20*
*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.

Sincerely,

GHD

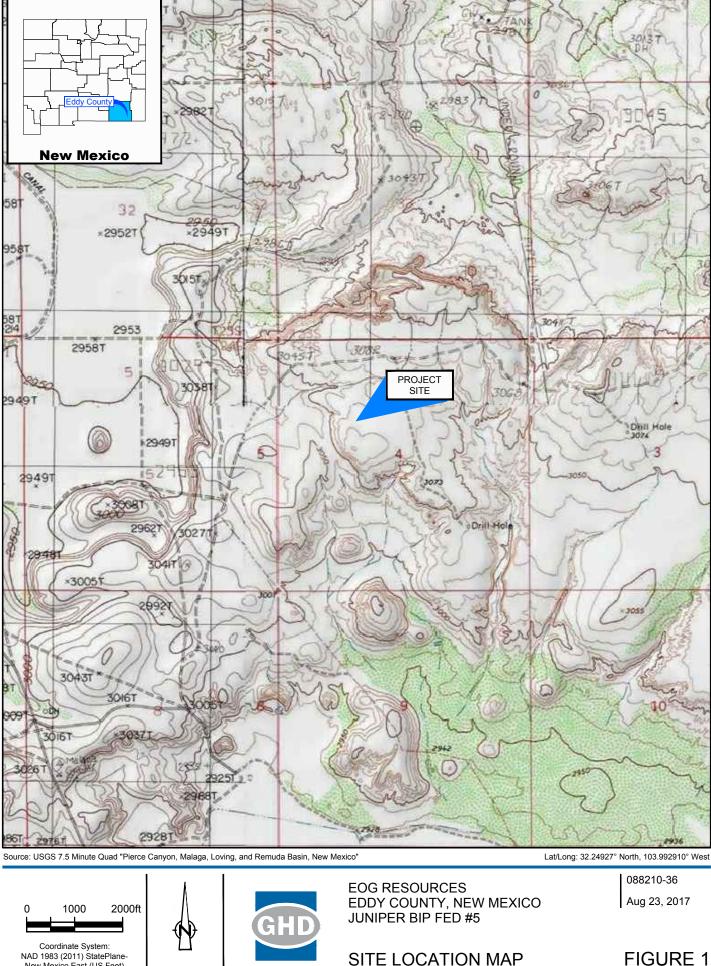
AIC Brand

Alan Brandon Senior Project Manager

BB/mc/36

Bernard Bockisch Albuquerque Operations Manager

# Figures



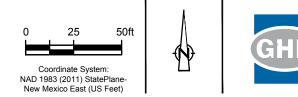
CAD File: I:\CAD\Files\08----\088210-EOG-Madera Ridge 25-1\088210-36(000)GN-DL001.dwg

New Mexico East (US Feet)

## **FIGURE 1**

「「「「「「」」」」「「「「」」」」」「「「」」」」「「」」」」「「」」」」「「」」」」	
TP-9	LEGEND
Date       07/10/17       08/08/17         Depth       0.5'       4'       6'	Test Pit Location
BTEX ND ND ND TP-2 07/10/17	Excavation Limits
Total IPH   1,800   ND   ND     Chloride   ND   NA   NA     BTEX   ND   ND	Depth Depth of Sample (ft) TPH Total Petroleum Hydrocarbons
Total TPH   ND   ND     Chloride   ND   97	TPH Total Petroleum Hydrocarbons Concentration (mg/kg)
TP-1       07/10/17         Depth       1'	ND Not Detected
	NA Not Analyzed
Total TPH ND ND Chloride 65 390 TP-2 TP-3 07/10/17	NOTES:
TP-1 V Depth 1' 4'	
TP-12 08/09/17 Total TPH ND ND	1. Sample results are in milligram per kilogram (mg/kg).
Depth   1'   4'     BTEX   NA	2. Locations are approximate.
Total TPH NA NA Chloride ND 250	3. Yellow shaded cells indicate NMOCD RRAL
TP-3 UTP-4	Exceedances.
	the statistic applied by
TP-3       07/10/17       TP-8         Depth       1'       4'       Date       07/10/17       08/09/17	and the state of the
DIEA NO NO Depth 0.5' 6' 8'	A alter maker at a the line
India Hit   ND   ND     Chloride   ND   ND	<b>公理</b> 图如此)新发展,但实际和最优的资源。
Chloride 30 NA NA	and the second second second second
	a series and the series and the series and the series of t
TP-5 TP-7 TP-6	and the second second second
TP-11 08/09/17 TP-11 Depth 1' 4'	a state of the second sec
Depth 1' 4' TP-10 BTEX NA NA	
BTEX   NA   NA     Total TPH   NA   NA	
Chloride 39 61 TP-6 Date 07/10/17 08/28/17	
TP-5 07/10/17 Depth 1' 4' 10'	
BTEX ND ND TOI THE ND NA	and the second
Iotal IPHNDNDNDChloride91300	
TP-7         Date       07/10/17       08/08/17	and the state of the second of
Depth       0.5'       4'       6'         BTEX       ND       ND       ND	and a second
Total TPH 3,100 ND ND Chloride 140 NA NA	
	Juniper BIP Fed #5
A PERSONAL PROPERTY AND	I-CU#5

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



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

### SAMPLE LOCATION MAP

Lat/Long: 32.24927° North, 103.992910° West

088210-36 Oct 4, 2017

## **Tables**

#### Table 1

Juniper BIP Fed #5 - Summary of Soil Analytical Data

Commite ID	Depth	Dete	Democratic	Taluana		Vederer	DTEV	TPH	TPH	TPH	Total	Oblasida
Sample ID	(feet)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	(GRO)	(DRO)	(MRO)	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
NMOCD RRALs (Total Ran	king Score =	: 20)	10		50				Total TF	PH: 100		600

Notes:

All sample results are in milligrams per kilogram NA = Not Analyzed NMOCD = New Mexico Oil Conservation Division RRALs = Recommended Remediation Action Limits Highlighted = Exceeds NMOCD RRAL

# Appendices

Appendix A Water Well Report

Juniper BIP Fed #5

and the State of t	N										te Eng p <b>th</b>			er	
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD been rep O=orpha C=the file closed)	laced, ned,			ers ar	e 1=NW 2= e smallest t	to		=SE) D83 UTM ir	n me	eters)		(In feet)		
POD Number <u>C 03615 POD2</u>	Code	POD Sub- basin CUB	County ED		Sec	<b>Tws Rng</b> 24S 29E		<b>X</b> 51	<b>Y</b> 3568013 🍯		DistanceDe 2278	pthWell			ater umn 34
						5			Ave	erag	je Depth to V	Vater:		26 feet	
											Minimum De	epth:		26 feet	
										Ì	Maximum De	epth:		26 feet	
Record Count:1															
UTMNAD83 Radiu	s Search (i	in mete	rs):												
Easting (X): 594	4885.1		North	ning (Y):	3568	509		F	adius: 250	00					
The data is furnished by th concerning the accuracy, c										the C	SE/ISC make	no warrar	nties, expres	ssed or im	plied,

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: <u>www.hallenvironmental.com</u>

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-01 Collection Date: 7/10/2017 10:25:00 AM Received Date: 7/13/2017 9:50:00 AM

Lab ID: 1707652-001	Matrix:	SOIL	Received 1	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: MRA			
Chloride	65	30	mg/Kg	20	7/24/2017 8:54:58 PM	32978			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: MAB			
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/17/2017 10:48:10 PM	1 32810			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/17/2017 10:48:10 PM	1 32810			
Surr: DNOP	72.5	70-130	%Rec	1	7/17/2017 10:48:10 PM	1 32810			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB			
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			
EPA METHOD 8021B: VOLATILES					Analys	t: NSB			
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.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 20
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/8/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-02 Collection Date: 7/10/2017 10:40:00 AM Received Date: 7/13/2017 9:50:00 AM

Lab ID: 1707652-002	Matrix:	SOIL	<b>Received</b>	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: MRA			
Chloride	390	30	mg/Kg	20	7/24/2017 9:07:22 PM	32978			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: TOM			
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			
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB			
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			
EPA METHOD 8021B: VOLATILES					Analys	t: NSB			
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.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 20
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-03 Collection Date: 7/10/2017 10:50:00 AM п

Lab ID: 1707652-003	Matrix:	SOIL	Received 1	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL (	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: MRA			
Chloride	ND	30	mg/Kg	20	7/24/2017 9:44:34 PM	32978			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analyst	TOM			
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			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB			
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			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
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.

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 20 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-04 Collection Date: 7/10/2017 11:05:00 AM

Lab ID: 1707652-004	Matrix:	SOIL	Received I	<b>Received Date:</b> 7/13/2017 9:50:00 AM				
Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: MRA		
Chloride	97	30	mg/Kg	20	7/24/2017 9:56:59 PM	32978		
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	S			Analys	t: MAB		
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		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB		
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		
EPA METHOD 8021B: VOLATILES					Analys	t: NSB		
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.

- \* Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 20 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-05 Collection Date: 7/10/2017 11:15:00 AM

Lab ID: 1707652-005	Matrix:	SOIL	Received 1	<b>Received Date:</b> 7/13/2017 9:50:00 AM				
Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: MRA		
Chloride	ND	30	mg/Kg	20	7/24/2017 10:09:24 PM	1 32978		
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analys	t: MAB		
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		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB		
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		
EPA METHOD 8021B: VOLATILES					Analys	t: NSB		
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.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 20
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/8/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-06 Collection Date: 7/10/2017 11:35:00 AM . ... A. 7/12/2017 0.50.00 ANA

Lab ID: 1707652-006	Matrix:	SOIL	Received 1	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: MRA			
Chloride	ND	30	mg/Kg	20	7/24/2017 10:21:49 PM	1 32978			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: TOM			
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			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB			
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			
EPA METHOD 8021B: VOLATILES					Analys	t: NSB			
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.

- \* Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 20 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-07 Collection Date: 7/10/2017 11:45:00 AM

Lab ID: 1707652-007	Matrix:		<b>Received Date:</b> 7/13/2017 9:50:00 AM				
Analyses	Result	PQL Q	Qual U	U <b>nits</b>	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	54	30		mg/Kg	20	7/24/2017 11:23:03 PM	32979
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S				Analyst	MAB
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
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
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
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
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.

- \* Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 20 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/8/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-08 Collection Date: 7/10/2017 12:00:00 PM п

Lab ID: 1707652-008	Matrix:	SOIL	Received 1	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL Q	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: MRA			
Chloride	180	30	mg/Kg	20	7/25/2017 12:00:16 AM	1 32979			
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analys	t: MAB			
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			
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB			
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			
EPA METHOD 8021B: VOLATILES					Analys	t: NSB			
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.

- \* Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 8 of 20 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/8/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-09 Collection Date: 7/10/2017 12:10:00 PM Perceived Date: 7/13/2017 0:50:00 AM

Lab ID: 1707652-009	Matrix:	SOIL	Receive	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL (	Qual Units	DF Date Analyze	ed Batch				
EPA METHOD 300.0: ANIONS					Analyst: MRA				
Chloride	91	30	mg/Kg	20 7/25/2017 12:3	37:29 AM 32979				
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst: MAB				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1 7/18/2017 2:54	4:50 AM 32810				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1 7/18/2017 2:54	4:50 AM 32810				
Surr: DNOP	59.5	70-130	S %Rec	1 7/18/2017 2:54	4:50 AM 32810				
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: <b>NSB</b>				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1 7/17/2017 10:0	09:09 PM 32807				
Surr: BFB	111	54-150	%Rec	1 7/17/2017 10:0	09:09 PM 32807				
EPA METHOD 8021B: VOLATILES					Analyst: <b>NSB</b>				
Benzene	ND	0.025	mg/Kg	1 7/17/2017 10:0	09:09 PM 32807				
Toluene	ND	0.049	mg/Kg	1 7/17/2017 10:0	09:09 PM 32807				
Ethylbenzene	ND	0.049	mg/Kg	1 7/17/2017 10:0	09:09 PM 32807				
Xylenes, Total	ND	0.099	mg/Kg	1 7/17/2017 10:0	09:09 PM 32807				
Surr: 4-Bromofluorobenzene	151	66.6-132	S %Rec	1 7/17/2017 10:0	09:09 PM 32807				

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

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 20
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-10 Collection Date: 7/10/2017 12:25:00 PM . ... A. 7/12/2017 0.50.00 ANA -

Lab ID: 1707652-010	Matrix:	SOIL	Received	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result Po		Qual Units	DF	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: MRA			
Chloride	300	30	mg/Kg	20	7/25/2017 12:49:53 AN	32979			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: MAB			
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			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB			
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 PN	32807			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
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 PN	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 PN	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.

- \* Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 10 of 20 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/8/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-11 Collection Date: 7/10/2017 1:00:00 PM

Lab ID: 1707652-011	Matrix:	SOIL	Received	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL (	Qual Units	DF Date Analyzed		Batch			
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	150	30	mg/Kg	20	7/25/2017 1:02:18 AM	32979			
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	MAB			
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			
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB			
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			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
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.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 11 of 20
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 8/8/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

**Client Sample ID:** S-088210-36-071017-12 Collection Date: 7/10/2017 1:15:00 PM п

Lab ID: 1707652-012	Matrix:	SOIL	<b>Received</b>	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL Q	Qual Units	DF Date Analyzed		Batch			
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	570	30	mg/Kg	20	7/25/2017 1:14:43 AM	32979			
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	MAB			
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			
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB			
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			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
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.

- \* Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 12 of 20 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/8/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-13 Collection Date: 7/10/2017 1:20:00 PM

Lab ID: 1707652-013	Matrix:	SOIL	Receive	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL (	Qual Units	DF	DF Date Analyzed				
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	140	30	mg/Kg	20	7/25/2017 1:27:07 AM	32979			
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	MAB			
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			
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB			
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			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
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.

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 13 of 20
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

**Client Sample ID:** S-088210-36-071017-14 Collection Date: 7/10/2017 1:25:00 PM Presived Date: 7/13/2017 0.50.00 AM

Lab ID: 1707652-014	Matrix:	SOIL	Receiv	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL (	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: MRA			
Chloride	30	30	mg/Kg	20	7/25/2017 1:39:32 AM	32979			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: MAB			
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			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB			
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			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
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.

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 14 of 20 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 8/8/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT: GHD** 

**Project:** Juniper BIP Federal 5

Client Sample ID: S-088210-36-071017-15 Collection Date: 7/10/2017 1:30:00 PM . ... A ... 7/12/2017 0.50.00 AN -

Lab ID: 1707652-015	Matrix:	SOIL	Receive	Received Date: 7/13/2017 9:50:00 AM					
Analyses	Result	PQL (	Qual Units	DF	DF Date Analyzed				
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	ND	30	mg/Kg	20	7/25/2017 1:51:57 AM	32979			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: MAB			
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			
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB			
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			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
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.

Qualifiers:	
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\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 15 of 20 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1707652 08-Aug-17

Client: Project:	GHD 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 Chloride		Result PQL SPK value SPK Re ND 1.5	f Val %REC LowLimit HighLimit %RPD RPDLimit Qual
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 Re	f Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 95.0 90 110
Sample ID	MB-32978	SampType: <b>MBLK</b>	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 32978	RunNo: <b>44502</b>
Prep Date:	7/24/2017	Analysis Date: 7/24/2017	SeqNo: 1407130 Units: mg/Kg
Analyte		Result PQL SPK value SPK Re	f 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: <b>44502</b>
Prep Date:	7/24/2017	Analysis Date: 7/24/2017	SeqNo: 1407131 Units: mg/Kg
Analyte		Result PQL SPK value SPK Re	5
Chloride		14 1.5 15.00	0 90.6 90 110

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 16 of 20

Client: Project:	GHD Juniper H	3IP Federal	15									
Sample ID	LCS-32810	SampT	ype: LC	S	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	LCSS	Batch	n ID: 32	810	F	RunNo: 4	4252					
Prep Date:	7/14/2017	Analysis D	ate: 7/	17/2017	S	SeqNo: 1	397734	Units: mg/k	٨g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
-	Drganics (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	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID:	PBS	Batch	n ID: 32	810	F	RunNo: 4	4252					
Prep Date:	7/14/2017	Analysis D	ate: 7/	/17/2017	5	SeqNo: 1	397735	Units: <b>mg/k</b>	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
-	Organics (DRO)	ND	10									
-	e 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-088210-36-0710	017 Batch	n ID: 32	810	RunNo: 44252							
Prep Date:	7/14/2017	Analysis D	ate: 7/	/17/2017	S	SeqNo: 1	398877	Units: <b>mg/ł</b>	٢g			
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	1707652-001AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID:	S-088210-36-0710	017 Batch	D: 32	810	F	RunNo: 4	4338					
Prep Date:	7/14/2017	Analysis D	ate: 7/	/19/2017	S	SeqNo: 1	401046	Units: <b>mg/k</b>	٢g			
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	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID:	PBS	Batch	n ID: 32	918	F	RunNo: 4	4386					
Prep Date:	7/20/2017	Analysis D	ate: 7/	/21/2017	S	SeqNo: 1	403470	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (	Drganics (DRO)	ND	10					-				
Dieser Runge e	5 ( )											
•	e Organics (MRO)	ND	50									

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 17 of 20

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: GHD										
Project: Junip	er BIP Federal	15								
Sample ID LCS-32918	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS Batch ID: 32918			F	RunNo: 4	4386					
Prep Date: 7/20/2017	Analysis D	ate: 7/	21/2017	5	SeqNo: 1	403492	Units: <b>mg/k</b>	٢g		
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			

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 18 of 20

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1707652 08-Aug-17

Client: Project:	GHD Juniper E	BIP Federal :	5								
Sample ID	MB-32807 SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	PBS Batch ID: 32807			RunNo: <b>44257</b>							
Prep Date:	7/14/2017	Analysis Da	te: 7/	17/2017	S	eqNo: 1	398063	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 1000	5.0	1000		104	54	150			
Sample ID	e ID LCS-32807 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range										
Client ID:	LCSS Batch ID: 32807				RunNo: <b>44257</b>						
Prep Date:	7/14/2017 Analysis Date: 7/17/2017				S	eqNo: 1	398064	Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	25	5.0	25.00	0	98.3	76.4	125			
Surr: BFB		1100		1000		112	54	150			
Sample ID	D 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 Rang	ge 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:	e: 7/14/2017 Analysis Date: 7/17/2017				SeqNo: 1398071			Units: <b>mg/Kg</b>			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Casalina Dana	o Organias (CDO)	22	4.8	23.88	0	91.8	77.8	128	0.863	20	
Surr: BFB	ge Organics (GRO)	1100	4.0	23.66 955.1	0	91.6 116	54	120	0.003	20	

#### **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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Hall Er	nvironment	al Anal	ysis I	Laborat	ory, Inc.					W 0#.	08-Aug-1
Client: Project:	GHD Juniper I	3IP Federa	ıl 5								
Sample ID	MB-32807	Samp	Гуре: <b>МЕ</b>	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 32	807	F	RunNo: 4	4257				
Prep Date:	7/14/2017	Analysis [	Date: 7/	17/2017	5	SeqNo: 1	398110	Units: mg/k	٢g		
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-Bron	nofluorobenzene	1.4		1.000		140	66.6	132			S
Sample ID	LCS-32807	Samp	Гуре: <b>LC</b>	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 32	807	F	RunNo: 4	4257				
Prep Date:	7/14/2017	Analysis [	Date: 7/	17/2017	S	SeqNo: 1	398111	Units: <b>mg/k</b>	٢g		
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-Bron	nofluorobenzene	1.4		1.000		137	66.6	132			S
Sample ID	1707652-001AMS	Samp	Гуре: МS	6	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	S-088210-36-0710	017 Batc	h ID: 32	807	F	RunNo: <b>4</b>	4257				
Prep Date:	7/14/2017	Analysis [	Date: 7/	17/2017	S	SeqNo: 1	398116	Units: <b>mg/k</b>	٢g		
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-Bron	nofluorobenzene	1.3		0.9355		144	66.6	132			S
Sample ID	1707652-001AMS	D Samp	Гуре: М	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	S-088210-36-0710	017 Batc	h ID: 32	807	F	RunNo: <b>4</b>	4257				
Prep Date:	7/14/2017	Analysis [	Date: 7/	17/2017	S	SeqNo: 1	398117	Units: mg/k	٢g		
			DOI		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPR value							
		Result 0.97	0.023	0.9132	0	106	80.9	132	0.331	20	
Benzene								132 136		20 20	
Benzene Toluene		0.97	0.023	0.9132	0	106	80.9		0.331		
Analyte Benzene Toluene Ethylbenzene Xylenes, Total		0.97 1.0	0.023 0.046	0.9132 0.9132	0 0.01852	106 108	80.9 79.8	136	0.331 1.95	20	

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

**QC SUMMARY REPORT** 

- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1707652

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3975	4901 Hawkins NE querque, NM 87109	Sam	ple Log-In Check List
Client Name: GHD	Work Order Number:	1707652		RcptNo: 1
Received By: Sophia Campuzano	7/13/2017 9:50:00 AM		Sophie Conjer-	_
Completed By: Ashley Gallegos	7/13/2017 3:09:23 PM	9	A-F	
Reviewed By:	7/14/17		V	
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		
<u>Log In</u>				
4. Was an attempt made to cool the samp	es?	Yes 🗹	No 🗌	
5. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗌	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
7. Sufficient sample volume for indicated te	st(s)?	Yes 🔽	No 🗌	
8. Are samples (except VOA and ONG) pro	perly 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 b	roken?	Yes 🗀	No 🔽	# of preserved
12. Does paperwork match bottle labels?		Yes 🔽	No 🗌	bottles checked for pH: (<2 or >12 unless noted)
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain		Yes 🔽	No 🗌	Adjusted?
14. Is it clear what analyses were requested	•	Yes 🗹		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔽	No 🗌	Checked by:
<u>Special Handling (if applicable)</u>				
16. Was client notified of all discrepancies w	ith this order?	Yes	No 🗀	NA 🗹
Person Notified:	Date			·····
By Whom:	Via: [	] eMail [] Phon	e 🗌 Fax	🗌 In Person
Regarding:				
Client Instructions:	nanakana manakanan makandari di sakara ka ka ka ka ka saya da sa			ALCOME DE LANC MENTION DE LANC ANTRE AN
17. Additional remarks:				

18. Cooler Information

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

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C	hain-	of-C	ustody Record	Turn-Around	Time:				1				_						J		
Client:	211-	Allow	querque	Standard	□ Rush				_											OR	
	sing	15	Jusque	Project Name														RA	110	JR	T
Mailing	Address	6121	Indian School RolNE	Junipe	-										ment			100.2563			
				Project #:						awkir											
Hell	D. AUC	querqu	NM 87110 4-0672		210/36		-	Tel	1. 50	5-34	5-39				505- Bog	and the second	-	7			MAN:
Phone	#: 5 5	5-00	BCIE DI	Project Mana				5	6		1000	~	nary	an-same	Req	uesi		100		100033	(AR
	Package:	Tlar	. Brandon Oghd.rom		in Brando		(8021)	only)	MRG			_		SO4)	s's						
□ Star			□ Level 4 (Full Validation)	7] /0	n Mando		(80	(Gas	DRO / MRO)			(SIMS)		PO <sub>4</sub> ,	PCB'						
Accred	STILLS DELLAS			Sampler:	Steve Pere	2 String Porzahler	MB's	TPH (	DR	~	_			02,1	8082					1	
	AP.	□ Oth	er	On Ice:	X Yes	2 Steven Perez Eghales	F +	1 +	GRO /	18.1	04.1	827		03,N	-		(V	~		S.	N N
	(Type)			Sample Temperature: 2.			BE	MTBE	0	od 4	od 5	0 or	etals	SI'NG	sides	(A	OV-	5	¥	pride	Z
Date	Time	Matrix	Sample Request ID	Container Type and # Preservative Type HEAL No. 1707052				BTEX + MT	TPH 8015B	PH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	8021 BI	A	Ch	Air Ruhhles (Y or N)
76-07	7025	Soil	5-088210-36-071017-5P-01	Yoz glass-1	TIK	-001			X	-			-	ł		8	8	X		X	4
1	1040	(	5088210-36-071017-5R 02	J	1	-002			1									1		1	
	050		5-088210-36-071017-58-03			-003															
	1105		5-088210-36-071017-58-04			-00A			Π												
	1115		5-28+210-36-071017-58-05			-005			1												T
	1125		5-088210-36-071017-58-06			-006			$\top$											tt	+
2	1145		5088210-36-071017-5P-07	-		-007			$\square$												T
	1200		5-288210-36-071017-58-08			-008															
	1210		528210-36-071017-5P-09			-009															
	1225		5-088210-36-071017-SP-10			-OD															
1	1300	1	08821036-071017-58-11		× 1	-011			Π									1		V	Τ
V	1315	V	5-088210-36-0710/7-SP-12	V.		012	5		V									V		V	
Date:	Time:	Relinquis	hed by:	Receive	1-	Date Time	1000	narks				_									
711-17 Date:	1000	Relinguis	why Herry	Received by:		7/11/17 1000 Date Time		Sump	le -	10	7:	me =	= 10	:25							
2/11/17	Time: 1900	L	ht		m 07	112/17 0950															

If necessary, sampler 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.

Client:	H)-1 Address #: 59	<u>415иди</u> :: <u>Same</u> 5-884:	-as pg l.		<u>Rush</u> a: h/per BI 8210/36	l'federa 1#5		Те	1. 50	<b>A</b> awki	<b>N</b> .	<b>AL</b> /.hal IE - 075	lenvi Alb	ironn uque	<b>5 L</b> ment erqu 505-	.AI tal.co e, N -345-	BO om M 87 -410	ME R/		AL	
QA/QC Star Accred NEL	Package: ndard itation		□ Level 4 (Full Validation) er	Sampler:   Seven feret   W     On Ice:   X Yes   □ No     Sample Temperature:   2.1		+ ш	MTBE + TPH (Gas only)	B (GRO / DRO / MRO)	(Method 418.1)	tod 504.1)	PAH's (8310 or 8270 SIMS)	letals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	Pesticides / 8082 PCB's	(A)	ii-VOA)	BTEX	:de 300,0	s (Y or N)		
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + M	+	TPH 8015B	TPH (Meth	EDB (Method 504.1)	PAH's (83	RCRA 8 Metals	Anions (F,	8081 Pesti	8260B (VOA)	8270 (Semi-VOA)	8021 6		Air Bubbles (Y	
710-17	13:20 13:25 13:30		S-0887210-36-071017-5P-13 402 gluss-1 ICR -013 S-0887210-36-071017-5P-14 -014				X										8		V		
Date: 7-11-17 Date: 7/11-17	Time: 1000 Time: 1900	Relinquish	ed by: Shared by: M	Received by Received by: Received by: Siphi C	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Date Time 7/1/17 1000 Date Time 7/12/17 0950	Rer	narks	2												

If necessary, samples submitted to Hall Environmental may be subcontracted to other accrecited 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: <u>www.hallenvironmental.com</u>

August 23, 2017 Bernie Bockish GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

OrderNo.: 1708880

Dear Bernie Bockish:

RE: Juniper Fed 5

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order: 1708880

Date Reported: 8/23/2017

	GHD uniper Fed 5				Lab (	<b>Drder:</b> 1708	880	
-	*			Collection D	4	2/2017 2.20.00 D	۸.	
Lab ID:	1708880-001					8/2017 3:20:00 PN	1	
Client Sample ID:	S-088210-36-0808	17-SP-TP-9-4'		Mat	rix: SC	DIL		
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Ba	tch II
EPA METHOD 801	15M/D: DIESEL RAN	GE ORGANICS	5			An	alyst:	том
Diesel Range Orga	nics (DRO)	ND	9.3	mg/Kg	1	8/17/2017 5:29:17	PM	3340
Motor Oil Range Oi	rganics (MRO)	ND	46	mg/Kg	1	8/17/2017 5:29:17	PM	3340
Surr: DNOP		97.0	70-130	%Rec	1	8/17/2017 5:29:17	PM	3340
EPA METHOD 801	15D: GASOLINE RAN	NGE				An	alyst:	NSB
Gasoline Range Or	ganics (GRO)	ND	4.6	mg/Kg	1	8/17/2017 10:09:3	8 PM	3339
Surr: BFB		82.0	54-150	%Rec	1	8/17/2017 10:09:3	8 PM	3339
EPA METHOD 802	21B: VOLATILES					An	alyst:	NSB
Benzene		ND	0.023	mg/Kg	1	8/17/2017 10:09:3	8 PM	3339
Toluene		ND	0.046	mg/Kg	1	8/17/2017 10:09:3	8 PM	3339
Ethylbenzene		ND	0.046	mg/Kg	1	8/17/2017 10:09:3	8 PM	3339
Xylenes, Total		ND	0.093	mg/Kg	1	8/17/2017 10:09:3	8 PM	3339
Surr: 4-Bromoflu	orobenzene	114	66.6-132	%Rec	1	8/17/2017 10:09:3	8 PM	3339
Lab ID:	1708880-002			Collection Da	ate: 8/8	8/2017 3:24:00 PN	1	
Client Sample ID:	S-088210-36-0808	17-SP-TP-7-6'		Mat	rix: SC	DIL		
Analyses		Result	PQL (	Qual Units	DF	Date Analyzed	Ba	tch II
EPA METHOD 801	15M/D: DIESEL RAN	GE ORGANICS	5			An	alyst:	том
Diesel Range Orga	nics (DRO)	ND	10	mg/Kg	1	8/17/2017 5:51:55	-	3340
Motor Oil Range Oi		ND	51	mg/Kg	1	8/17/2017 5:51:55	PM	3340
Surr: DNOP		95.7	70-130	%Rec	1	8/17/2017 5:51:55	PM	3340
EPA METHOD 801	15D: GASOLINE RAN	NGE				An	alyst:	NSB
Gasoline Range Or	ganics (GRO)	ND	4.7	mg/Kg	1	8/17/2017 10:33:4	1 PM	3339
Surr: BFB		82.3	54-150	%Rec	1	8/17/2017 10:33:4	1 PM	3339
EPA METHOD 802	21B: VOLATILES					An	alyst:	NSB
Benzene		ND	0.023	mg/Kg	1	8/17/2017 10:33:4		
Toluene		ND	0.047	mg/Kg	1	8/17/2017 10:33:4	1 PM	3339
		ND	0.047	mg/Kg	1	8/17/2017 10:33:4	1 PM	3339
Ethylbenzene								
Ethylbenzene Xylenes, Total		ND	0.094	mg/Kg	1	8/17/2017 10:33:4	1 PM	3339

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

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 1 of 9
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

# Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1708880

Date Reported: 8/23/2017

	HD				<b>Lab Order:</b> 170	8880
Project: Ju	uniper Fed 5					
Lab ID:	1708880-003			<b>Collection D</b>	ate: 8/8/2017 3:28:00 P	М
Client Sample ID:	S-088210-36-080817	7-SP-TP-9-6'		Mat	trix: SOIL	
Analyses		Result	PQL Q	ual Units	DF Date Analyzed	Batch ID
EPA METHOD 801	5M/D: DIESEL RANG		5		А	nalyst: <b>TOM</b>
Diesel Range Orgar	nics (DRO)	ND	9.7	mg/Kg	1 8/17/2017 6:14:2	-
Motor Oil Range Or		ND	49	mg/Kg	1 8/17/2017 6:14:2	
Surr: DNOP		101	70-130	%Rec	1 8/17/2017 6:14:2	
EPA METHOD 801	5D: GASOLINE RANG	GE			A	nalyst: <b>NSB</b>
Gasoline Range Org	ganics (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
EPA METHOD 802	1B: VOLATILES				A	nalyst: 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-Bromofluc	probenzene	112	66.6-132	%Rec	1 8/17/2017 10:57	34 PM 33392
Lab ID:	1708880-004			Collection D	ate: 8/8/2017 3:30:00 P	М
Client Sample ID:	S-088210-36-080817	7-SP-TP-7-4'		Mat	trix: SOIL	
Analyses		Result	PQL Q	ual Units	DF Date Analyzed	Batch ID
FPA METHOD 801	5M/D: DIESEL RANG	F ORGANICS	5		Α	nalyst: <b>TOM</b>
Diesel Range Orgar		ND	9.6	mg/Kg	1 8/17/2017 6:37:2	-
Motor Oil Range Or		ND	48	mg/Kg	1 8/17/2017 6:37:2	
Surr: DNOP	g	89.3	70-130	%Rec	1 8/17/2017 6:37:2	
EPA METHOD 801	5D: GASOLINE RANG	GE			A	nalyst: NSB
Gasoline Range Org	ganics (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:	
EPA METHOD 802	1B: VOLATILES				A	nalyst: NSB
Benzene		ND	0.023	mg/Kg	1 8/17/2017 11:21:	
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-Bromofluc	probenzene	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.

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 2 of 9
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1708880

Date Reported: 8/23/2017

	-					
CLIENT:GHDProject:Juniper Fed	15			Lab Orde	er: 170888	0
Lab ID: 1708880	)-005		Collection	<b>Date:</b> 8/9/20	17 11:18:00 AM	[
Client Sample ID: S-08821	0-36-080917-SP-TP-8-6	5'	М	atrix: SOIL		
Analyses	Result		Qual Units		te Analyzed	Batch ID
EPA METHOD 8015M/D: DIE	SEL RANGE ORGANIC	35			Analı	/st: TOM
Diesel Range Organics (DRO)	94	9.2	mg/Kg	1 8/1	17/2017 6:59:36 PI	
Motor Oil Range Organics (MR	-	46	mg/Kg		17/2017 6:59:36 PI	
Surr: DNOP	94.1	70-130	%Rec		17/2017 6:59:36 PI	
EPA METHOD 8015D: GASC						/st: NSB
Gasoline Range Organics (GR		5.0	mg/Kg	1 8/1	18/2017 12:56:40 /	
Surr: BFB	79.1	54-150	%Rec		18/2017 12:56:40 A	
EPA METHOD 8021B: VOLA						/st: NSB
Benzene	ND	0.025	mg/Kg	1 8/1	18/2017 12:56:40 A	
Toluene	ND	0.020	mg/Kg		18/2017 12:56:40 /	
Ethylbenzene	ND	0.050	mg/Kg		18/2017 12:56:40 A	
Xylenes, Total	ND	0.099	mg/Kg		18/2017 12:56:40	
Surr: 4-Bromofluorobenzene	. 107	66.6-132	%Rec		18/2017 12:56:40 /	
Lab ID: 1708880	)-006		Collection	Date: 8/9/20	17 11:22:00 AM	[
Client Sample ID: S-08821	0-36-080917-SP-TP-8-8	3'	Μ	atrix: SOIL		
Analyses	Result	PQL	Qual Units	DF Da	te Analyzed	Batch ID
EPA METHOD 8015M/D: DIE	SEL RANGE ORGANIC	28			Analı	/st: TOM
Diesel Range Organics (DRO)	41	9.8	mg/Kg	1 8/1	17/2017 7:22:12 PI	
Motor Oil Range Organics (MR		49	mg/Kg		17/2017 7:22:12 PI	
Surr: DNOP	86.6	70-130	%Rec		17/2017 7:22:12 PI	
EPA METHOD 8015D: GASC						
	OLINE RANGE				Analy	/st: NSB
Gasoline Range Organics (GR		4.7	ma/Ka	1 8/1	-	/st: <b>NSB</b> M 33392
Gasoline Range Organics (GR Surr: BFB		4.7 54-150	mg/Kg %Rec		Analy 18/2017 1:20:42 Al 18/2017 1:20:42 Al	M 33392
Surr: BFB	O) ND 84.5				18/2017 1:20:42 Al 18/2017 1:20:42 Al	M 33392 M 33392
	O) ND 84.5	54-150	%Rec	1 8/1	18/2017 1:20:42 Al 18/2017 1:20:42 Al	M 33392 M 33392 /st: <b>NSB</b>
Surr: BFB EPA METHOD 8021B: VOLA	O) ND 84.5 ATILES		%Rec mg/Kg	1 8/1 1 8/1	18/2017 1:20:42 Al 18/2017 1:20:42 Al Analy	M 33392 M 33392 /st: <b>NSB</b> M 33392
Surr: BFB EPA METHOD 8021B: VOLA Benzene	O) ND 84.5 ATILES ND	54-150 0.024	%Rec mg/Kg mg/Kg	1 8/1 1 8/1 1 8/1	18/2017 1:20:42 AI 18/2017 1:20:42 AI Analy 18/2017 1:20:42 AI	M 33392 M 33392 /st: <b>NSB</b> M 33392 M 33392
Surr: BFB EPA METHOD 8021B: VOLA Benzene Toluene	O) ND 84.5 ATILES ND ND	54-150 0.024 0.047	%Rec mg/Kg	1 8/1 1 8/1 1 8/1 1 8/1	18/2017 1:20:42 AI 18/2017 1:20:42 AI Analy 18/2017 1:20:42 AI 18/2017 1:20:42 AI 18/2017 1:20:42 AI	M 33392 M 33392 /st: <b>NSB</b> M 33392 M 33392 M 33392

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

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 3 of 9
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 1708880

Hall Environ	mental Analysis	Laborato	ory, Inc.		Date Reported:	8/23/2017
	GHD uniper Fed 5				Lab Order: 17	708880
Lab ID:	1708880-007			Collection I	Date: 8/9/2017 11:36:0	0 AM
Client Sample ID:	S-088210-36-080917-	-SP-TP-10-1'		Ma	atrix: SOIL	
Analyses		Result	PQL Qua	l Units	DF Date Analyze	ed Batch ID
EPA METHOD 300	.0: ANIONS					Analyst: MRA
Chloride		39	30	mg/Kg	20 8/23/2017 2:5	1:30 AM 33500
Lab ID:	1708880-008			Collection I	Date: 8/9/2017 11:39:0	0 AM
Client Sample ID:	S-088210-36-080917-	-SP-TP-10-4'		Ma	atrix: SOIL	
Analyses		Result	PQL Qua	l Units	DF Date Analyze	ed Batch ID
EPA METHOD 300	.0: ANIONS					Analyst: MRA
Chloride		61	30	mg/Kg	20 8/23/2017 3:03	3:54 AM 33500
Lab ID:	1708880-009			Collection I	Date: 8/9/2017 11:42:0	0 AM
Client Sample ID:	S-088210-36-080917-	-SP-TP-11-1'		Ma	atrix: SOIL	
Analyses		Result	PQL Qua	l Units	DF Date Analyze	ed Batch ID
EPA METHOD 300	.0: ANIONS					Analyst: MRA
Chloride		ND	30	mg/Kg	20 8/23/2017 3:16	6:19 AM 33500
Lab ID:	1708880-010			Collection I	Date: 8/9/2017 11:45:0	0 AM
Client Sample ID:	S-088210-36-080917-	-SP-TP-11-4'		Ma	atrix: SOIL	
Analyses		Result	PQL Qua	l Units	DF Date Analyze	ed Batch ID
EPA METHOD 300	.0: ANIONS					Analyst: MRA
Chloride		140	30	mg/Kg	20 8/23/2017 3:28	3:43 AM 33500
Lab ID:	1708880-011			Collection I	Date: 8/9/2017 11:59:0	0 AM
Client Sample ID:	S-088210-36-080917-	-SP-TP-12-1'		Ma	atrix: SOIL	
Analyses		Result	PQL Qua	l Units	DF Date Analyze	ed Batch ID
EPA METHOD 300	.0: ANIONS					Analyst: MRA
Chloride		ND	30	mg/Kg	20 8/23/2017 3:4 <sup>2</sup>	1:08 AM 33500

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order: 1708880

Hall Enviro	nmental Analysi	s Laborato	Date Reported: 8/23/2017						
CLIENT: Project:	GHD Juniper Fed 5				Lab Order:	170888	0		
Lab ID: Client Sample II	1708880-012 <b>D:</b> S-088210-36-080917	7-SP-TP-12-4'			pate: 8/9/2017 12: trix: SOIL	02:00 PM			
Analyses		Result	PQL Qu		DF Date Ana	alyzed	Batch ID		
EPA METHOD 3 Chloride	00.0: ANIONS	250	31	mg/Kg	20 8/23/2017	Analy 7 3:53:33 AM	/st: <b>MRA</b> M 33500		

# Hall Environmental Analysis Laboratory Inc.

В

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

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Qualifiers:

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 5 of 9
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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: Ics 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 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Qual Chloride 14 1.5 15.00 0 93.6 90 110

#### **Qualifiers:**

**Client:** 

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 6 of 9

10

GHD

#### **Project:** Juniper Fed 5 Sample ID LCS-33403 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics LCSS Client ID: 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) 10 48 50.00 0 96.5 73.2 114 Surr: DNOP 5.000 5.0 100 70 130 Sample ID MB-33403 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 33403 Client ID: PBS 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

100

70

130

10.00

#### **Qualifiers:**

**Client:** 

Surr: DNOP

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- **D**<sub>2</sub> . . .
  - Page 7 of 9

GHD

Project: Juniper	Fed 5									
Sample ID MB-33392	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch	n ID: 33	392	F	RunNo: 4	5024				
Prep Date: 8/16/2017	Analysis D	ate: 8/	17/2017	S	SeqNo: 1	425199	Units: <b>mg/k</b>	٢g		
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 LCS-33392	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch	n ID: 33	392	F	RunNo: 4	5024				
Prep Date: 8/16/2017	Analysis D	ate: 8/	17/2017	S	SeqNo: 1	425200	Units: mg/k	٨g		
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:

**Client:** 

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

# Page 8 of 9

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **1708880** 23-Aug-17

# Client: GHD

**Project:** Juniper Fed 5

Sample ID MB-33392	SampT	Гуре: МЕ	BLK	Test	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: 33	392	R	aunNo: 4	5024				
Prep Date: 8/16/2017	Analysis D	Date: 8/	17/2017	S	SeqNo: 1	425230	Units: <b>mg/k</b>	٢g		
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	Samp	Type: LC	S	Test	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Bate	h ID: 33	202	R	unNo: 4	5024				
2000	Dato	IIID. 33	39Z		uni 10. –	JUZ4				
	Analysis E				SeqNo: 1		Units: <b>mg/k</b>	٨g		
			17/2017				Units: <b>mg/k</b> HighLimit	<b>(g</b> %RPD	RPDLimit	Qual
Prep Date: 8/16/2017	Analysis D	Date: <b>8/</b>	17/2017	S	SeqNo: 1	425231	-	-	RPDLimit	Qual
Prep Date: 8/16/2017 Analyte	Analysis E Result	Date: <b>8/</b> PQL	<b>17/2017</b> SPK value	S SPK Ref Val	SeqNo: 1 %REC	425231 LowLimit	HighLimit	-	RPDLimit	Qual
Prep Date: 8/16/2017 Analyte Benzene Toluene	Analysis D Result 0.99	Date: <b>8/</b> PQL 0.025	17/2017 SPK value 1.000	SPK Ref Val	SeqNo: 1 %REC 99.5	425231 LowLimit 80	HighLimit 120	-	RPDLimit	Qual
Prep Date: 8/16/2017 Analyte Benzene	Analysis E Result 0.99 1.0	Date: <b>8/</b> PQL 0.025 0.050	17/2017 SPK value 1.000 1.000	SPK Ref Val 0 0	SeqNo: 1 %REC 99.5 102	425231 LowLimit 80 80	HighLimit 120 120	-	RPDLimit	Qual

#### **Qualifiers:**

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: www.ha	4901 Hawkin querque, NM 8 FAX: 505-345-	s NE 7109 Sam 4107	ple Log-In Check List
Client Name: GHD	Work Order Number:	1708880		RcptNo: 1
Received By: Andy Freeman	8/12/2017 10:05:00 AN	1	andy	
Completed By: Ashley Gallegos	8/15/2017 12:08:23 PN	1	AZ	
Reviewed By:	8/16/17-		V	
Chain of Custody				
1. Custody seals intact on sample bottle	es?	Yes	- No 🗖	Not Present
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present
3. How was the sample delivered?		Courier		
<u>Log In</u>				
4. Was an attempt made to cool the same	mples?	Yes 🗹	No 🗌	
5. Were all samples received at a temp	erature of >0° C to 6.0°C	Yes 🔽	No 🗌	
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
7. Sufficient sample volume for indicated	d 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	d broken?	Yes 🗆	No 🔽	# of preserved
12. Does paperwork match bottle labels? (Note discrepancies on chain of custo		Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Cl		Yes 🗹	No 🗌	Adjusted?
14. Is it clear what analyses were request	·	Yes 🔽	No 🗆	
15. Were all holding times able to be met (If no, notify customer for authorizatio		Yes 🗹	No 🗌	Checked by:

# Special Handling (if applicable)

Person Notified:	I discrepancies with this order?	Date	No	
By Whom:	and and and the set of	Via: 🔲 eMai	Phone	Fax 🔲 In Person
Regarding:	······································			
Client Instructions		in in in 1997 with diseasts on diseas and the superior management of the	ana hakatan manana dalam katan na y	
Additional remarks: <u>Cooler Information</u> Cooler No   Temp <sup>6</sup>	PC   Condition   Seal Intact   S	eal No   Seal Dat	e   Sianed B	

Client	Chain	of-Cu	stody Record	Turn-Around						н	AL	LI		/16	20	N	ЧE	NT	AL	
Gilent.	G40-	Albuqu	rerque	Standard														TC		
		t		Project Name	»: 	_				v	ww.	halle	nviror	men	tal.c	om				
Mailing	Address	6121-	Indian School Bd NE	Juniper	Fed # 88210/3	5		49	01 Ha	awkin	s NE	- 4	lbuqu	erqu	e, N	M 87	109			
			e, N/M, 87110	Project #:	00210/2	1	1	Τe	el. 50	5-345	-397	5	Fax	505	345	-410	7			
Phone	#: 505	5-884-0	2672	0	002101>	-6						An	alysis	Req	ues	t			- 12	Print.
email	or Fax#:	Van.Br	randon @ghd.com	Project Mana	iger:		0	nly)	30)				04)							
	Package:		0	Alan Bro	andon		(8021)	TPH (Gas only)	WI/			ŝ	04,S(	PCB's						
□ Sta			Level 4 (Full Validation)				3's (i	Ő	S			SIMS)	PC-	2 P(			ide			
Accred					Steve Per		TME	Hd L		=	504.1)	8270	N.	808			Ch loride			î
		□ Othe	÷۲	On Ice:	Yes perature: 3,	□ No	+ 	+ ш	SRO	418	õ		e S	es /		OA	2	X		or
	C (Type)	-		Sample Terri	perature. 7	4-6	MTBE	MTBE	58 (	pou	pout	310	CI,I	ticid	OA)	V-im		STE.		es (
Date	Time	Matrix	Sample Request ID	Container	Preservative	HEAL No.	1 + 1	+	801	(Met	(Method :	S (8:	IS (F	Pes	5	(Se	0.0	7	A	lddu
Date	- Time	Matrix	Campie Request in	Type and #	Туре	170888D	BTEX	BTEX +	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB	PAH'S (8310	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	300.0	BUZI BAEX	æ	Air Bubbles (Y or N)
8/8/17	1520	Soil	5-088210-36-080817-5PTP-9-4	Hoz class - 1	ICE	-001		-	X	1		-		1				X		
4/1	1524	1.	5088210-36-080817-92-TP-7-6		1	-002			X									X		
	1528		5-058210-36-080817-SP-TP-9-6			-003			X									X		
V	1530		5-088210-36-080817-5P-TP-7-4			-004			X									X		
89/17	1118		5-088210-36-080917-5P-TP-8-6			-005			X		5.2							X		
	1122		S-088210-36-080917-5ATP-8-8			-006			X									X		
	1136		5-088210-36-080917-SP-TR-10-1			-007	_										X			
	1139		5088210-36-08091758-TR-10-4"			-D08											X			
	1142		5.088210-36-050917-51ATP-11-1-			-009			_								X			
	1145		5-088210-36-080917-5P-TP-11-4			DID											X			
	1159	11	5088210-36-080917-SP-TR12-1	11		-D11											X			
V	1202	IV	508821036080917.5P.TP.12.4		X	-012											X			
Date:	Time:	Relinquish	yn Peren	Received By:	L	Date Time	Rer	nark	S:											
Date:	Time: 4	Reling	ied by:	Received by:		Date Time	1													
Shalm	10m	M	M	Aler	d	8/12/17 1005														
mali 1	It recessary,	symples ub	mitted to Hall Environmental may be subco	ontracted to other a	coredited laboratorie	es. This serves as notice of this	s possi	bility.	Any su	c-contra	acted o	lata wi	be clea	rly not	ated or	n the a	nalytic	al report	t.	



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

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order: 1708H69

Hall Envir	onmental Analysis	s Laborato	ory, Inc.		Date Reporte	ed: 9/11/2	2017
CLIENT: Project:	GHD Juniper BIP Fed #5				Lab Order:	1708H	59
Lab ID: Client Sample	1708H69-001 ID: S-088210-36-082817	'-SP-TP-6-10'			ate: 8/28/2017 2:1	14:00 PM	[
Analyses		Result	PQL Qua	al Units	DF Date Ana	lyzed	Batch ID
EPA METHOD Chloride	300.0: ANIONS	250	30	mg/Kg	20 9/7/2017 7		yst: <b>MRA</b> 1 33760

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 1 of 2
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: **1708H69** *11-Sep-17* 

Page 2 of 2

Client: Project:	GHD Juniper B	BIP Fed #5									
Sample ID MB-33	3760	SampT	ype: <b>ml</b>	blk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PBS		Batch	ID: 33	760	F	RunNo: 4	5475				
Prep Date: 9/7/2	017	Analysis D	ate: 9/	7/2017	S	SeqNo: 1	442638	Units: <b>mg/K</b>	(g		
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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-397	4901 Hawkins i nuquerque, NM 871	<sup>NE</sup> 09 Sam  07	ole Log-In Che	eck List
Client Name: GHD	Work Order Number	r: <b>1708H69</b>		RcptNo: 1	
Received By: Erin Melendrez	8/31/2017 9:45:00 AM	1	ULUL A	-	
Completed By: Ashley Gallegos Reviewed By:	8/31/2017 1:17:24 PN 8/8//17	1	AJ		
Chain of Custody					
1. Custody seals intact on sample t	pottles?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?		<u>Courier</u>			
<u>Log In</u>					
4. Was an attempt made to cool th	e samples?	Yes 🔽	No 🗔	NA 🗌	
5. Were all samples received at a t	emperature of >0° C to 6.0°C	Yes 🗹	No 🗌		
6. Sample(s) in proper container(s)	?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indi	cated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and O	NG) properly preserved?	Yes 🔽	No 🗌		
9. Was preservative added to bottle	es?	Yes 🗌	No 🔽	NA 🗌	
10.VOA vials have zero headspace	?	Yes	No 🗌	No VOA Vials 🗹	
11. Were any sample containers rec	eived broken?	Yes 🗀	No 🗹	# of preserved	
12. Does paperwork match bottle lat (Note discrepancies on chain of		Yes 🗹	No 🗌	bottles checked for pH: (<2 or 3	>12 unless noted)
13. Are matrices correctly identified	on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
14. Is it clear what analyses were re-	quested?	Yes 🗹	No 🗌		
15. Were all holding times able to be (If no, notify customer for authori		Yes 🗹	No	Checked by:	
Special Handling (if applicat		Yes 🗍	No 🗆	NA 🗹	
16. Was client notified of all discrepa		⊺⊂S ∟ 		INA 💌	
Person Notified:	Date				
By Whom:	Via:	eMail P	hone 🗌 Fax	lin Person	
Regarding: Client Instructions:	anan araa kataa ahaa kata kata kata kata kata k	and a state of the second s			
17. Additional remarks:					
18. Cooler Information	ndition Seal Intact Seal No Yes	Seal Date	Signed By		na se se se

Project Name:	□ Rush				AN	AL	Y	515	S L	AB	30			10
D Juniper 1	Teu + 0		4901	Haw	kins l	NE -	Alb	uqu	erqu	e, NN	M 87	109		
- 6882id	0/36	11513	Tel.	505-3	45-3			and the second second	-	COLUMN TWO IS NOT		7		
Project Manager: Alan Brand	lon	s (8021)	(Gas only)			(SMIS)		PO4.SO4)	PCB's			0		
		+	H TPH	18.1)	04.1)	8270 5		03.NO2	s / 8082		(A)			or N)
Sample Temperate	ure: 7.4			od 4	od 5	10 or	etals	CI,NC	cides	Ŷ	-V0	an		X S
	Type HEAL No.	+	+ 0	TPH (Meth	EDB (Meth	PAH's (83	RCRA 8 M	Anions (F,(	8081 Pesti	8260B (VO	8270 (Sem	Chiler		Air Bubbles (Y or N)
Hozglas-1 IC	2000				a:e	16	2					X		
			+	-								5.  0		
				_									_	
			+										-	++
				-										
			+										+	
				_									_	
		+	+	+	-							-	+	++
Received by:	- <b>828/17 084</b> Date Time	Rem	arks:											
	Project Manager: Alan Brand Sampler: Sheve On Ice: X Y Sample Temperat Container Type and # bz class-1 IC bz class-1 IC Receiver by: Receiver by: Receiver by:	Project #: 088210/36 Project Manager: Alan Brandon Sampler: Stevie fore Z On Ice: Yes No Sample Temperature: Z. U Container Type and # Preservative Type and # Type 1708 H 109 4z glas-1 ICE -001 4z glas-1 ICE -001 No No Sample Temperature: Z. U HEAL No. 1708 H 109 4z glas-1 ICE -001 No No Starple Temperature: Z. U No Starple Temperature: Z. U Starple Te	Project Manager: Alan Brandon Sampler: Steve fere Z On Ice: X Yes No Sample Temperature: 7.4 Container Type and # Type HEAL No. 1708 H 109 HEAL NO. 1708 H 109 H 1708 H 109	Project Manager: Alan Brandon Sampler: Stevle fere Z On ice: X Yes No Sample Temperature: Z U Container Type and # Preservative HEAL No. 1708 H 109 HEAL NO. 1708 H 109 H 109	Project Manager: Alan Brandon Sampler: Stevle lere Z On loe: Yes No Sample Temperature: 7.4 Container Type and # Type 1708 H 109 1708 H 109 HEAL No. Type and # Type 1708 H 109 1708 H 109	Project Manager: Alan Brandon Sampler: Stevle fere Z On loe: X Yes No Sample Temperature: 7.4 Container Type and # Preservative Type 1708 H109 HEAL No. 1708 H109 H2 H2 H41 HEAL No. 1708 H109 H2 H3 H H2 H41 H2 H41 H	Project Manager:     Alan Brandon       Alan Brandon     (1,000)       Sampler:     Standon       Sampler:     Stave       On loe:     X Yes       On loe:     X Yes       Sample Temperature:     7.4       Container     Preservative       Type     1708 H109       HEAL No.     1100 H11       Yazelas-1     ICE       ICe     -001       Hozelas-1     ICE       ICe     -001       ICe     ICe       ICe     -001       ICe     ICe       ICe	Project Manager:     Alan Brandon       Alan Brandon     (1,000)       Sampler:     Start 2       On loe:     Yes       Sample Temperature:     7.4       Type and #     Type       1708 H109     18       Hat Han Brandon     18       Sample:     Yes       On loe:     Yes       Container     Preservative       Type and #     Type       1708 H109     HB       Hat Hall     HB       Hozglas-1     ICE       100     1000       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100       1100     1100	Project Manager:     Alan Brandon       Alan Brandon     (1,000 get)       Sampler:     Stave (212 Z)       On Ice:     Yes       Sample Temperature:     7.4       Type and #     Type       Type and #     Type       ICC     1708 H109       HEAL No.     1100 get)       Yozglas-1     ICE       ICe     -001       Yozglas-1     ICE       ICe     -001       ICe     ICE       ICE	Project Manager:     Alan Brandon     (Ilonged and all all all all all all all all all al	Project Manager:     Alan Brandon       Sampler:     Standon       Sampler:     Standon       Sample Temperature:     Z.U       Container     Preservative       Type and #     Type       1708 H109     HEAL No.       Type and #     Type       1708 H109     HEAL No.       Type and #     Type       1708 H109     HEAL No.       Type and #     Type       HEAL No.     Type       HEAL No.     HEAL No.       Type and #     Type       HEAL No.     HEAL No.       Type     HEAL No.       Type     HEAL No.       HEAL No.     HEAL No.       HEAL No.     HEAL No.       HOB H109     HEAL No.       HOB H201803     H09       HOB H201803     H000       HOB H201803     H09       HEAL No.     H09       HEAL No.     H09       H2001803     H09       H20191803     H109       H20191803     H1109       H2019191919191919191919191919191919191919	Project Manager: Alan Brandon Sampler: Steve lere Z On loe: X Yes No Sample Temperature: Z.U Container Type and # Type 1708 H 109 HEAL No. Type and # Type 1708 H 109 HEAL No. Type and # Type 1708 H 109 HEAL No. Type and # Type 1708 H 109 Dito Time Received by: Received by:	Project Manager: Alan Brandon Sampler: Stevic lere Z On loe: X Yes No Sample Temperature: 7. U Container Type and # Type HEAL No. Type and # Type HEAL No. Type and # Type HEAL No. Type and # Type TOS H109 HEAL No. Type ITOS H109 HEAL NO. HEAL NO. Type ITOS H109 HEAL NO. HEAL NO. H	Project Manager:     Alan Standon       Alan Standon     (1000)       Sampler:     Steve lere Z       On Ice:     X Yes       Sample Temperature:     7, U       HEAL No.     1708 H 109       BBB H W 100 ISIN 0280 ISIN 0000 ISIN 0280 ISIN 000000000000000000000000000000000

Appendix C Disposal Manifests

u.	LEA LAND DIS MILE MARKER #64 US HWY						KIC	0
	1300 WEST MAIN ST	LEA LA		PHONE (405)	236-4257	- A	DF	
NON	-HAZARDOUS WASTE MANIF	EST NO	119522	1. PAGE	_OF	2. TRAIL	ER NO.	()12
	3FCOMPANY NAME 2013	47ADDRESS			5. PICK	K-UP-DATE		
G				710				
	PHONE NORT-37015	CHTXII and	STATE	797B6	6, INR	CC I.D. NO.		1.00
E	7. NAME OR DESCRIPTION OF WASTE SHIPPE		· · · · · · · · · · · · · · · · · · ·	8. CONTAIN			10. UNIT	11. TEXAS
N	Non-Regulated, Non-Harandous Was	142		Nq. Ty	ype, Ql	UANTITY	Wt/Vol.	WASTE ID #
14	b.					_	_	
Е								_
	c.						E	
R	a 44440 445	54D						
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∛ T	DE ONTIVEROS	576-897-4048				21 HOUR	DMERCOL	
0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in al	l respects in proper co	ndition for trai	nsport by l	highway acco	ording to a	oplicable
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R	NAME: SOR ENTERPRISE	110	NAME:	IRAN		ER (2)		
A N	TEXAS I.D. NO.	and more	TEXAS I.D. NO.					
S P		NNON RUSK	IN CASE OF EME	RGENCY CO	NTACT:			
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E R	PRINTED/TYPED NAME	er DCV4	PRINTED/TYPED	NAME	14.1			dreat in
s	SIGNATURE LUS MEN.	DATE 9/1	2017 SIGNATURE			D.	ATE	<u></u>
		ADDRESS:				PHONE:		
DF	Lea Land, LLC		Marker 64, U. Iiles East of Ca				575-88	7-4048
I A S C	PERMIT NO.	JU IV	20. COMMENTS	11150au, 19	101			
ΡΙ	WM-01-035 - New Mex	ico						
O L S I A T	21. <b>DISPOSAL FACILITY'S CERTIFIC</b> facility is authorized and permitted to receive such v		ertify that the above d	lescribed waste	es were de	livered to the	is facility, 1	hat the
LY	AUTHORIZED SIGNATURE	Λ	CELL NO.		DATE		TIN	ME D
	ZINU ZIN	aly	/		2	1/2017		d.
GENER	ATOR: COPIES 1 & 6	DISPOSAL SITE	E: COPIES 2 & 3			TRANSPO	ORTERS: (	COPIES 4 & 5

0	LEA LAND DIS MILE MARKER #64 US HWY							KIC	0
	1300 WEST MAIN ST			<b>ND, LLC</b> A CITY, OK 73106 • F	HONE (	405) 236-4	257	DF	- 5 - 6 3 - 6 - 6
NON	-HAZARDOUS WASTE MANIF	EST	NO	119522	1. PA	GEOF	2, TRAIL	ER NO	112
	3. COMPANY NAME	4. ADD	RESS	ian Er		5.	PICK-UP DATE		and the second se
G	PHONE NO.	CITY		STATE		ZIP 6.	TNRCC I.D. NO	).	
Е			20.00						
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			8 CON No	TAINERS Type	9, TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
Ν	a.								
	b.								
E	c.								
R	d. 1/01/0 /4/	3AD							
ĸ	12. COMMENTS OR SPECIAL INSTRUCTIONS:	210					13. WASTE P	ROFILE N	O.
А	LINIPER SIP FED # C								
				<b>GENCY OR SPIL</b>	L, CO	NTACT			
Т	NAME	PHO	NE NO				24-HOUR	EMERGE	NCY NO
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled	l, and are in a	Il respects in proper co	ndition fo	or transpor	t by highway acc	ording to a	pplicable
R	PRINTED/TYPED NAME			SIGNATURE					DATE
Т	16. TRANSPORTER (1)			17.	TI	RANSPO	ORTER (2)		
R A	NAME: 30A ENVIERMISE			NAME:					
N S	TEXAS I.D. NO.			TEXAS I.D. NO.					
Р	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CONTA	CT:		
O R	EMERGENCY PHONE: 18. <b>TRANSPORTER (1):</b> Acknowledgment of	of receip	t of material	EMERGENCY PH 19. TRANSPO		(2): Ackn	owledgment of r	eceipt of m	aterial
T E	PRINTED/TYPED NAME	er g	079	PRINTED/TYPED					
R S	1 2 4 6 1	200	17 0/1	2017					
	SIGNATURE	DATE	DRESS	SIGNATURE			PHONE:	DATE	
DF	Lea Land, LLC	ADL	Mil	e Marker 64, U. Miles East of Ca		·		575-88	7-4048
I A S C P I	PERMIT NO. WM-01-035 - New Mex	ico		20, COMMENTS					
OL SI AT	21. <b>DISPOSAL FACILITY'S CERTIFIC</b> facility is authorized and permitted to receive such v		N: I Hereby	certify that the above d	lescribed	wastes we	re delivered to th	nis facility,	that the
LY	AUTHORIZED SIGNATURE			CELL NO		DAT	E	TH	ME
	ATOR: COPIES 1 & 6	DI		E: COPIES 2 & 3			TDANE	ODTEDS	COPIES 4 & 5

OOPY 5

<u>MANIFEST</u>

#

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 OUANTITY:

FACILITY CONTACT: Steve Perez, Site Supervisor GHD 575-<u>689-5782</u> CONTACT:

DATE:

SIGNATURE OF

Steven Aren

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: 1-1-17

IGNATURE:

- a								
	LEA LAND DIS MILE MARKER #64 US HWY 6						KIC	0
	1300 WEST MAIN STR	LEA LA		PHONE (4	405) 236-4	1257	DF	3
NON	-HAZARDOUS WASTE MANIFE	ST NO	119520	1. PA	GEOF	2. TRAIL	ER NO.	220
	3. COMPANY NAME	ADDRESS			5.1	PICK-UP DATE		
G	PHONE NO.	CITY	STATE		and the second se	TNRCC I.D. NO		
Е	(432) 886-3786	Midland	TK		706	L a mamin	40 10 117	
	7. NAME OR DESCRIPTION OF WASTE SHIPPED		and the second second	8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
Ν	a.							
Е	b.	2 S						
E	c.	1			- 24			4 A
R	47 43,880 40,30	Đ		1.2				
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE P	ROFILE N	O.
A							_	
Т	NAME	PHONE NO	ENCY OR SPIL	L, COI	NTACT	24-HOUR	EMERGE	NCY NO.
	JOE ONTIVEROS	575-897-4013						
0	15.GENERATOR'S CERTIFICATION: I shipping name and are classified, packed, marked, and international and national government regulations, incl	labeled, and are in al	l respects in proper co	ndition fo	or transpor	t by highway acc	ording to a	pplicable
R	PRINTED/TYPED NAME	-	SIGNATURE			4.1		DATE
Т	16. TRANSPORTER (1)		17.	TF	RANSPO	ORTER (2)		
R A	NAME:		NAME:				1	
N S	TEXAS I.D. NO.	HOM RUSH	TEXAS I.D. NO.					
P O	IN CASE OF EMERGENCY CONTACT:	441-7380	IN CASE OF EME		Y CONTA	CT:		
R T	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of		EMERGENCY PH		(2): Ackn	owledgment of r	eceipt of m	aterial
E R	PRINTED/TYPED NAME	NEL PERT	PRINTED/TYPED	NAME				
S	SIGNATURE An Domail	DATE 9/1	SIGNATURE			D	ATE	
		ADDRESS:				PHONE:		
DF	Lea Land, LLC		Marker 64, U. Ailes East of Ca		•	30,	575-88	7-4048
I A S C	PERMIT NO:		20. COMMENTS	arisbac	1, 1 <b>1 1 1</b>			
P I O L	WM-01-035 - New Mexic	co						
S I A T	21. DISPOSAL FACILITY'S CERTIFICA facility is authorized and permitted to receive such wa		ertify that the above of	lescribed	wastes we	re delivered to th	nis facility,	that the
A I L Y	AUTHORIZED SIGNATURE	2	CELL NO.	1	DAT	E	Тр	ME. 30
	JUAN - LIN	Ruly				0/1/2017		1.
GENER	ATOR: COPIES 1 & 6	DISPOSAL SITE	COPIES 2 & 3			TRANSP	ORTERS:	COPIES 4 & 5

COPY 4

	LEA LAND DIS MILE MARKER #64 US HWY							XIC	0
	1300 WEST MAIN ST			<b>ND, LLC</b> A CITY, OK 73106 • 1	PHONE (4	405) 236-4	257		3
ON	N-HAZARDOUS WASTE MANIF	FEST	NO	119520	1. PA	GEOF	2. TRAII	LER NO	120
	3. COMPANY NAME	4 ADD		ancy De		5.	PICK-UP DATE		
	PHONE NO.	CITY		STATE		ZIP 6.	INRCC I.D. NO	).	
	7. NAME OR DESCRIPTION OF WASTE SHIPPI	FD.			8. CON	TAINERS	9. TOTAL	10. UNIT	
					No.	Туре	QUANTITY	Wt/Vol.	WASTE ID
ŀ	b.								
ŀ	c.								
	d. A Z CRAN ANN Z	10							
	12. COMMENTS OR SPECIAL INSTRUCTIONS	40					13. WASTE F	PROFILE N	0.
	UNIPER BIP FED 4.5						15 0/10121	NOTIEE IN	i na fina
	14. IN CA	ASE OF	EMERG	ENCY OR SPIL	L, CO	NTACT			
	NAME	PHON			-		24-HOUR	REMERGE	NCY NO.
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	15, GENERATOR'S CERTIFICATION:	nd labeled,	, and are in al	Il respects in proper co	ndition fo	or transpor	t by highway ac	cording to a	pplicable
	15, GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, ar international and national government regulations, in	nd labeled,	, and are in al	Il respects in proper co te regulations, and are	ondition fo the same	or transpor materials	t by highway ac	cording to a	pplicable A LAND, LL
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l	15.GENERATOR'S CERTIFICATION:       shipping name and are classified, packed, marked, ar       international and national government regulations, in       PRINTED/TYPED NAME       16.     TRANSPORTER (1)       NAME:       TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:	nd labeled, ncluding a	, and are in al	Il respects in proper co te regulations, and are SIGNATURE 17, NAME:	ndition for the same	r transpor materials	t by highway acc previously appr DRTER (2)	cording to a	pplicable A LAND, LL
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	15.GENERATOR'S CERTIFICATION:       shipping name and are classified, packed, marked, ar       international and national government regulations, in       PRINTED/TYPED NAME       16.     TRANSPORTER (1)       NAME:       TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:       EMERGENCY PHONE:       18. TRANSPORTER (1): Acknowledgment       PRINTED/TYPED NAME       SIGNATURE	nd labeled, ncluding a of receipt DATE ADD	and are in al applicable stands of material RESS: Mile	Il respects in proper co te regulations, and are SIGNATURE 17, NAME: TEXAS I.D. NO. IN CASE OF EMH EMERGENCY PH 19. <b>TRANSPO</b> PRINTED/TYPEI SIGNATURE	TF ergenC IONE: NAME	Y CONTA (2): Ackn	t by highway acc previously appr DRTER (2) CT: owledgment of I PHONE:	receipt of n	applicable A LAND, LL DATE
FACLIL	15.GENERATOR'S CERTIFICATION:       shipping name and are classified, packed, marked, ar       international and national government regulations, in       PRINTED/TYPED NAME       16.     TRANSPORTER (1)       NAME:       TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:       EMERGENCY PHONE:       18. TRANSPORTER (1): Acknowledgment       PRINTED/TYPED NAME       SIGNATURE       Lea Land, LLC       PERMIT NO,       WM-01-035 - New Mez       21.DISPOSAL FACILITY'S CERTIFIC	nd labeled, ncluding a of receipt DATE ADD xico CATION	and are in al applicable sta of material RESS: Mile 30 N	Il respects in proper co te regulations, and are SIGNATURE 17, NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH 19. <b>TRANSPO</b> PRINTED/TYPEI SIGNATURE SIGNATURE Marker 64, U Ailes East of C 20, COMMENTS	TF ergenct ione: RTER ( D NAME S. Hw arlsbac	y 62/18 y 62/18	t by highway acc previously appr DRTER (2) CT: owledgment of I BO, PHONE:	receipt of n	applicable A LAND, LL DATE
4 C I L	15.GENERATOR'S CERTIFICATION:       shipping name and are classified, packed, marked, ar       international and national government regulations, in       PRINTED/TYPED NAME       16.     TRANSPORTER (1)       NAME:       TEXAS I.D. NO.       IN CASE OF EMERGENCY CONTACT:       EMERGENCY PHONE:       18. TRANSPORTER (1): Acknowledgment       PRINTED/TYPED NAME       SIGNATURE       Lea Land, LLC       PERMIT NO,       WM-01-035 - New Mex	nd labeled, ncluding a of receipt DATE ADD xico CATION	and are in al applicable sta of material RESS: Mile 30 N	Il respects in proper co te regulations, and are SIGNATURE 17, NAME: TEXAS I.D. NO. IN CASE OF EMI EMERGENCY PH 19. <b>TRANSPO</b> PRINTED/TYPEI SIGNATURE SIGNATURE Marker 64, U Ailes East of C 20, COMMENTS	TF ergenct ione: RTER ( D NAME S. Hw arlsbac	y 62/18 y 62/18	t by highway acc previously appr DRTER (2) CT: owledgment of I BO, PHONE: re delivered to t	receipt of n	applicable A LAND, LL DATE

COPY 5

#### 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

Steven Aren

On behalf of EOG

Resources NAME OF TRANSPORTER: (DRIVER)

DATE: 9/1/17

J. h. Le SIGNATURE OF DRIVER

DISPOSAL SITE: Lea Land LLC Mile Marker 64, Hwy 62/180 East Carlsbad, NM, 88220 DATE:

SIGNATURE:

#### MANIFEST

<u>#</u>

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-<u>689-5782</u> CONTACT: DATE:

SIGNATURE OF

Steven Aver

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:

9/1/17, 6:43 AM Page 1 of 2

3E	LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048											
	1300 WEST MAIN ST			<b>ND, LLC</b> A CITY, OK 73106 • 1	PHONE (	(405) 236-4	1257	DF	)			
NON	I-HAZARDOUS WASTE MANIF	EST	NO	119521	1. PA	GEOF	2. TRAIL	ER NO.	DDL			
G	3. COMPANY NAME	4. ADD		Hari Cit		5.1	PICK-UP DATE					
U	PHONE NO.						ZIP 6. TNRCC I.D. NO.					
Е	(432) 888-3705	hardi	and	1.7.		706						
	7. NAME OR DESCRIPTION OF WASTE SHIPPE		1		8, CON Nọ.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
N	a.					G199			-			
	b.			2			s T P					
E	с.							1.5				
R	d. 43,300 41,90	10										
1	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	0.			
A	limper our fed #6											
T	14.       IN CASE OF EMERGENCY OR SPILL, CONTACT         NAME       PHONE NO       24-HOUR EMERGENCY NO.											
Т	VOE ONTIVEROS 675-997-4048											
0	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, LL											
R	PRINTED/TYPED NAME			SIGNATURE	DATE							
Т	16. TRANSPORTER (1)			17. TRANSPORTER (2)								
R A	NAME: SOR ENTERPRISE	LLT		NAME:								
N S	TEXAS I.D. NO.	entero e	RUSE	TEXAS I.D. NO.								
P O	IN CASE OF EMERGENCY CONTACT:	1.441-			N CASE OF EMERGENCY CONTACT:							
R T	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	6 1		EMERGENCY PH 19. TRANSPO		(2): Ackno	owledgment of r	eceipt of m	aterial			
E R	PRINTED/TYPED NAME	-		PRINTED/TYPEI	PRINTED/TYPED NAME							
S	SIGNATURE	DATE	9.4	2017 SIGNATURE			D	ATE	-			
			RESS:				PHONE:					
DF	Lea Land, LLC	-		Marker 64, U.		-	30,	575-88	7-4048			
I A S C	PERMIT NO.		30 F	Ailes East of Carls	arisbac	1, INIVI						
ΡI	WM-01-035 - New Mex	ico										
S I A T	21. <b>DISPOSAL FACILITY'S CERTIFIC</b> facility is authorized and permitted to receive such v		N: I Hereby	certify that the above of	lescribed	wastes wer	re delivered to th	nis facility, r	that the			
LY	AUTHORIZED SIGNATURE	CELL NO.		DAT	E 9/1/2017	TI	ME 45					
GENER	ATOR: COPIES 1 & 6	DIS	POSAL SIT	E: COPIES 2 & 3			TRANSP	ORTERS	COPIES 4 & 5			

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COPY 4

8	<b>LEA LAND DISPOSAL SITE NEW MEXICO</b> 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 MANIF	EST NO	119521	1. PA	GEOF	2_TRAII	.er no.	DOL			
G	3. COMPANY NAME	4. ADDRESS	mpallers De		5, 1	PICK-UP DATE					
G	PHONE NO.	CITY	STATE		ZIP 6. TNRCC I.D. NO.						
E	14751090-3106			CI1B		LO KRUT					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
Ν	a.										
E	Ь.										
Ľ	с.				-						
R	d. 4,90 4,90	0									
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13. WASTE P	ROFILE N	O.			
A											
т	14.       IN CASE OF EMERGENCY OR SPILL, CONTACT         NAME       PHONE NO       24-HOUR EMERGENCY NO.										
0	15.GENERATOR'S CERTIFICATION: 1 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)	_	17.	TRANSPORTER (2)							
R A	NAME:		NAME:								
Ν	TEXAS I.D. NO.		TEXAS I.D. NO.								
S P	IN CASE OF EMERGENCY CONTACT:	NHON RUS	IN CASE OF EMI	IN CASE OF EMERGENCY CONTACT:							
O R	EMERGENCY PHONE: 18. <b>TRANSPORTER (1):</b> Acknowledgment o	f receipt of mater	EMERGENCY PH		(2): Ackn	owledgment of a	eceint of m	aterial			
T E	PRINTED/TYPED NAME		PRINTED/TYPEI								
R S			21 2017								
	SIGNATURE	ADDRESS:	SIGNATURE			PHONE:	DATE				
	Lea Land, LLC		file Marker 64, U	.S. Hw	y 62/18		575-88	7-4048			
D F I A		3	0 Miles East of C	arlsbad	<u>Ļ NM</u>						
S C P I O L	PERMIT NO. WM-01-035 - New Mex.	ico	20. COMMENTS								
S I A T	21. <b>DISPOSAL FACILITY'S CERTIFIC</b> . facility is authorized and permitted to receive such w		by certify that the above	described	wastes wer	re delivered to tl	nis facility,	that the			
LY	AUTHORIZED SIGNATURE	alre	CELL NO.		DAT	E 9/1/2617	TI	ME			
GENER	ATOR: COPIES 1 & 6	DISPOSAL	SITE: COPIES 2 & 3			TRANSP	ORTERS:	COPIES 4 & 5			

COPY 5

MANIFEST

<u>#</u>

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

FACILITY CONTACT: Steve Perez, Site Supervisor GHD 575-<u>689-5782</u> CONTACT:

DATE:

SIGNATURE OF

On behalf of EOG

QUANTITY:

Gleven Aren

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:

<u>MANIFEST</u>

<u>#</u>

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

575-<u>689-5782</u> Contact: DATE:

SIGNATURE OF

Steven Perer

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:

#### 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 5222 S Bronco, Hobbs, NM, 88240

**DISCRIPTION OF WASTE:** Non-Hazardous Contaminated Soil

FACILITY CONTACT: Steve Perez, Site Supervisor GHD 575-689-5782

CONTACT:

DATE:

SIGNATURE OF

QUANTITY:

Gleven Aren

On behalf of EOG

Resources NAME OF TRANSPORTER: (DRIVER)

DATE: 9-1-17 SIGNATURE OF DRIVER: Enles Rodry

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

DATE:

SIGNATURE:

MANIFEST

<u>#</u>

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

Steven Aren

On behalf of EOG

Resources NAME OF TRANSPORTER: (DRIVER)

DATE: 9.1-17

SIGNATURE OF DRIVER: k

DISPOSAL SITE: Lea Land LLC Mile Marker 64, Hwy 62/180 East Carlsbad, NM, 88220 date: 9-1-17

SIGNATURE

		MANIFEST #
SHIPPage FACILITY NAME EOG Resources Juniper BIP Fed #5 Lea County, NM	& ADDRESS:	<b>LOCATION OF MATERIAL:</b> <b>32.24898 -103.99232</b>
NPI# 30-025-28577		
RAMOPORTER NAME & A	DDRESS:	
INR Enterprises LLC		
a222 Si Stoneo, Hobas, NN	<b>/, 8</b> 8240	
SCTUTICIS OF MASTE: Don-Herardous Contamin	ated S i	QUANTITY
erve Herez, Site Supervis	or	
1.0		
115 Kurz (n. 82a)	DATE:	SIGNATURE OF CONTACT:
		Steven Acren
A.M MNSFORTER:	$(DR_{1})$	On behalf of EOG Resources
	DATE:	SIGNATURE OF DRIVER:
		Kener
	DATE	SIGNATURE

-2115 Пол. Пол. Стору 62**/180** с. П. П.П. — Полова сС

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	N-HAZARDOUS WASTE MANIF	EST NO	119631	1. PAG	GE_OF	2. TRAIL	ER NO.	m20			
	3. COMPANY NAME	4. ADDRESS			5.1	PICK-UP DATE					
G	EOG Refources	CITY	STATE		ZIP 6.7	0/16/2017 TNRCC I.D. NO.					
Е	(432) 568-3705	Midiarad	TX	297							
JL	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:		8. CONT	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
N	ation-Regulated, Non Hazardous Was	<u>S</u>		1	CM.	Quanta	V				
0	b.			1		1.					
Е	C.							-			
	ANT AGRAD IM	11-			-						
R	41,040	440				13. WASTE P	DOFILEN				
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					15. WASTEF	ROFILE N	0.			
A	14. IN CASE OF EMERGENCY OR SPILL, CONTACT										
Т	NAME	PHONE NO	JENCI OK SFIL		TACI	24-HOUR	EMERGE	NCY NO.			
	JOE ONTIVEROS	575-367-4648			_		-	1			
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in a	Ill respects in proper co	ondition fo	r transport	t by highway acc	ording to a	pplicable			
R	PRINTED/TYPED NAME		SIGNATURE					DATE			
T R	16. <b>TRANSPORTER (1)</b>		17. TRANSPORTER (2)								
Α	NAME: SOR ENTERPRISE	<u>11.0</u>	NAME:								
N S	TEXAS I.D. NO.		TEXAS I.D. NO.								
P O	IN CASE OF EMERGENCY CONTACT:		IN CASE OF EMERGENCY CONTACT:								
R T	EMERGENCY PHONE: (5/5) 18. TRANSPORTER (1): Acknowledgment of	1 4 4 4 7 8 13 of receipt of material	EMERGENCY PHONE: 19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material								
Е	PRINTED/TYPED NAME	676	PRINTED/TYPED	) NAME							
R S	SIGNATURE AL MOIDOLA	DATE 0/14	SIGNATURE			Π	ATE	8			
		ADDRESS:				PHONE:					
	Lea Land, LLC		e Marker 64, U.	S. Hwy	y 62/18	30,	575-88	7-4048			
D F I A		30 1	Miles East of Ca	arlsbad	, NM		-				
S C P I	PERMIT NO. WM-01-035 - New Mex	ico	20. COMMENTS								
OL SI	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		certify that the above d	lescribed v	wastes wei	re delivered to th	is facility,	that the			
A T L Y	AUTHORIZED SIGNATURE	٨	CELL NO. DATE TIME					ME			
1	DATE LINE	alir	/			0/14/2017	I	2:			
GENER	ATOR: COPIES 1 & 6		E: COPIES 2 & 3			TRANSP	ORTERS:	COPIES 4 & 5			

0	<b>LEA LAND DISPOSAL SITE NEW MEXICO</b> MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048											
	1300 WEST MAIN ST			<b>ND, LLC</b> CITY, OK 73106 • P	PHONE (4	405) 236-4	257		анан У 1813-1			
NON	-HAZARDOUS WASTE MANIF	EST N	NO OI	119631	1, PA	GEOF	2, TRAIL	ER NO.	APPEO.			
	3, COMPANY NAME	4. ADDRE	SS			5. I	PICK-UP DATE					
G	E.P.Q. Resources	5509 (	14960498				0/14/2017					
	PHONE NO.	CITY		STATE	ZIP 6. TNRCC I.D. NO.							
Е					_	TAINERS	9. TOTAL	10. UNIT	11. TEXAS			
	7. NAME OR DESCRIPTION OF WASTE SHIPPE				No	Туре	QUANTITY	Wt/Vol	WASTE ID #			
Ν	alton-Regulated, Non-Hazardous Vissl				1200							
	b.											
Е	C.,	-										
	d. 10 10 10	31	-									
R	41-40 11	<u>4-(11</u>	2						- The			
	12, COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	0.			
Α	LUMPER DIP.RED #5			14	100							
				ENCY OR SPIL	L, COI	NTACT	24 HOUR	EMERGE	NCV NO			
Т	NAME	PHONE	NO				24-HOUK	EMERGE.	NCT NU.			
0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled, an	d are in al	l respects in proper co	ndition fo	or transport	by highway acc	ording to a	pplicable			
R	PRINTED/TYPED NAME			SIGNATURE DATE								
Т	16. TRANSPORTER (1)			17. TRANSPORTER (2)								
R A	NAME:			NAME:								
N N	TEXAS I.D. NO.			TEXAS I.D. NO.								
S P	IN CASE OF EMERGENCY CONTACT: SHAR		NELISI	IN CASE OF EMERGENCY CONTACT:								
r O	EMERGENCY PHONE:			EMERGENCY PH								
R T	18. <b>TRANSPORTER (1):</b> Acknowledgment of			19. TRANSPOL		( <b>2):</b> Ackn	owledgment of i	eceipt of m	aterial			
Е	PRINTED/TYPED NAME			PRINTED/TYPED	NAME							
R S				PRINTED/TYPED NAME								
	SIGNATURE	DATE	- Mole	SIGNATURE			<u> </u>	DATE				
		ADDRE			G II	(0.11.C	PHONE:		<b>T</b> 40.40			
DF	Lea Land, LLC			Marker 64, U. files East of Ca			50,	5/5-88	7-4048			
I A S C	PERMIT NO.		<u> </u>	20, COMMENTS	arisbac	4, 1 N I V I						
S C P I	WM-01-035 - New Mex	ico	Meni	074								
0 L S I	21.DISPOSAL FACILITY'S CERTIFIC	ATION:	I Hereby c	ertify that the above d	lescribed	wastes we	re delivered to the	nis facility,	that the			
ΑΤ	facility is authorized and permitted to receive such w											
LY	AUTHORIZED SIGNATURE	- 11		CELL NO.		DAT	E	TIME				
	L'ITTE LITTE	a.S.F	2	/			9/14/2017		1. a			
GENER	ATOR: COPIES 1 & 6	DISPO	SAL SITE	E: COPIES 2 & 3			TRANSF	ORTERS:	COPIES 4 & 5			

COPY 5

		MANIFEST #
SHIPPING FACILITY NAME & ADDRI EOG Resources	ESS:	LOCATION OF MATERIAL:
Juniper BIP Fed-#5 Lea County, NM API# 30-015-28577		32.24898 -103.99232
TRANSPORTER NAME & ADDRESS: SDR Enterprises LLC 5222 S Bronco, Hobbs, NM, 88240		
SCREEDON OF WASTE:		QUANTITY:
Non-Hazardous Contaminated Soil		Ø 17,460
PacieTY CONTACT: Deve Parez, Site Supervisor		
し.HD 	DATE:	SIGNATURE OF CONTACT:
		Steven Peren
LAME OF TRANSPORTER: (DRIVER)	)	On behalf of EOG Resources
	DATE:	SIGNATURE OF DRIVER:
DISPOSAL SITE: a Land LLC Lile Marker 34, Hwy 62/180 East Etrisbad, NM, 88220	DATE:	SIGNATURE: Denzaby

	LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048										
	1300 WEST MAIN STR			ND, LLC CITY, OK 73106 • P	HONE (	405) 236-4	257	D	R		
NON	-HAZARDOUS WASTE MANIFE	ST	NO	119630	1. PA	GE <u>OF</u>	2. TRAIL	ER NO.	DA		
G		. ADDRE 5509	ESS Chanapa	ar. 13.			PICK-UP DATE				
G.	PHONE NO.	STATE			TNRCC I.D. NO						
Е	(432) 686-3705	haidhace	đ	TX.	201						
	7. NAME OR DESCRIPTION OF WASTE SHIPPED				8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N	aNon-Regulated, Nan Hazardous Waste				1	CM		V.			
	b.										
E	c.	-									
R	dari 51100 4878	D				18					
ĸ	12. COMMENTS OR SPECIAL INSTRUCTIONS:	0					13. WASTE P	ROFILE N	0.		
Α	JUNPER BIP FED #5						1212				
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO										
Т	NAME PHONE NO 24-HOUR EMERGENCY NO.										
0	15.GENERATOR'S CERTIFICATION: 1 shipping name and are classified, packed, marked, and international and national government regulations, incl	labeled, a	nd are in all	l respects in proper con	ndition fo	or transport	by highway acc	ording to a	pplicable		
R	PRINTED/TYPED NAME	4		SIGNATURE	DATE						
Т	16. TRANSPORTER (1)	-		17.	TI	RANSPO	DRTER (2)				
R A	NAME: SOR ENTERPRISE L			NAME:							
N S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P O	in onde of emercercor continer.	NON		IN CASE OF EME	RGENC	Y CONTA	CT:				
R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of	receipt of		EMERGENCY PH 19. TRANSPOI		(2): Ackno	owledgment of r	eceipt of m	aterial		
T E	PRINTED/TYPED NAME			PRINTED/TYPED	NAME				iour (		
R S	of Carlos &	0.4705	02343	20 <b>s</b> ignature				ATE			
	SIGNATURE	DATE ADDRI	_	SIGNATURE			PHONE:				
DF	Lea Land, LLC	ADDRI	Mile	Marker 64, U. Ailes East of Ca		•		575-88	7-4048		
I A S C P I	PERMIT NO. WM-01-035 - New Mexic	co		20. COMMENTS	19						
O L S I A T	21. <b>DISPOSAL FACILITY'S CERTIFICA</b> facility/is authorized and permitted to receive such was		I Hereby c	ertify that the above d	escribed	wastes wer	e delivered to th	is facility,	that the		
LY	AUTHORIZED SIGNATURE	012		CELL NO.		DAT	e 9/14/2017	TI	ME 40		
GENER	ATOR: COPIES 1 & 6	DISPO	OSAL SITE	E: COPIES 2 & 3			TRANSP	ORTERS:	COPIES 4 & 5		

1. 4.9											
	LEA LAND DIS MILE MARKER #64 US HWY								XIC	0	
	1300 WEST MAIN ST			<b>ND, LLC</b> A CITY, OK 73106 • F	PHONE (	405) 23	6-4257			in the second	
NON	-HAZARDOUS WASTE MANIF	EST	NO	119630	L. PA	GE	OF	2. TRAIL	LER NO	1001	
	3. COMPANY NAME	4. ADD					5, PICK	-UP DATE		1.0.000	
G	E.O.D. Resources - Loss .	1 serie		en Dy			9/1	472017		- 12	
	PHONE NO.	CITY		STATE		ZIP	6. TNR	CC I.D. NO	),	_74	
Е	(432)/686-3705	Midla	mid.	100	690	(00					
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			8 CON No	TAINE Type		. TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
Ν	al for Flegolated, Non-Prozerdous Wash			1	Ch			1			
	b.										
Е	0.										
E	c.										
	d.	20									
R		0					12	WACTE D	DOFILEN		
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13	3. WASTE PROFILE NO.				
Α	JUNNIPER DIFFED #0		_	ファイチャノフ						12.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT										
Т	NAME PHONE NO 24-HOUR EMERGENCY NO.										
To and	CE ONDVEROS 575-807-1040										
0	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						DATE	
T R	16. <b>TRANSPORTER (1)</b>			17. TRANSPORTER (2)							
A	NAME:	14.0		NAME:							
Ν	TEXAS I.D. NO.			TEXAS I.D. NO.						1000	
S P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EME	RGENC	Y CON	TACT:				
0	EMERGENCY PHONE:		73.50	EMERGENCY PH	ONE						
R T	18. <b>TRANSPORTER (1):</b> Acknowledgment of			19. TRANSPO		(2): Ad	knowle	dgment of 1	receipt of m	aterial	
E R	PRINTED/TYPED NAME			PRINTED/TYPED	NAME					1.11.11	
S	SIGNATURE	DATE	9/15	SIGNATURE				E	DATE		
		ADD	RESS:					PHONE:		- 1010	
DF	Lea Land, LLC			Marker 64, U.		·			575-88	7-4048	
ΙΑ			<u>30 N</u>	Ailes East of Ca	arisbac	1, NM					
S C P I	PERMIT NO. 20. COMM WM-01-035 - New Mexico										
OL SI AT	21. <b>DISPOSAL FACILITY'S CERTIFIC</b> facility is authorized and permitted to receive such v		N: I Hereby o		lescribed	wastes	were de	livered to th	his facility,	that the	
L Y	AUTHORIZED SIGNATURE	CELL NO.		D	ATE		TI	ME			
	Z ABLE / ABL			/			9/				
		DIO	DOG LL OLT	E COPIES 2 & 3	_	_	-			COPIES 4 & 5	

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		MANIFEST #
SHIPPING FACILITY NAME & ADD EOG Resources Hiniper BIP Fed #5	RESS:	LOCATION OF MATERIAL:
ea County, NM 21# 30-015-28577		32.24898 -103.99232
TRAMSPORTER NAME & ADDRESS SOR Enterprises LLC J222 S Storico, Hobps, NM, 8824.		
SOF PEON OF WASTE: Son-Hezardous Contaminated So		QUANTITY 20
and without Ante- ave Parez, Site Supervisor		
ب - د د <sup>1</sup> - د	DATE:	SIGNATURE OF CONTACT:
RM. DE LANSFORTER: (DR.M.	i)	
Emili-Re	DATE:	SIGNATURE OF DRIVER:
2.2 ст. ПР антон лс., тко, оч, таду 52/180 с., 10. г.с. ск. ск. ст.	DATE:	SIGNATURE:

06 - R

	TRANSPORTER'S	MANIFEST #
SHIPPING FACILITY NAME & A EOG Resources	DDRESS:	LOCATION OF MATERIAL:
Loniper BIP Fed #5 Lea County, NIM VPI# 80-006-28577		<b>32.24898 -103.</b> 99232
TRANSPORTER NAME & ADDR FOR Enterprises LNC 0222 El Storico, Hopps, NM, 84		
SCP ITICK OF MASTE:		QUANTITY:
lon-Vezerdous Contaminated	ă celt	49,540
C F CM CONTAINT ave Parez, Site Supervisor		
್ರ ಕೇರಿ - ರವಿ	DATE:	SIGNATURE OF CONTACT:
		Steven Aren On behalf of EOG Resources
AM. 1911 ANSPORTER: (DR	NE.)	
	DATE	SIGNATURE OF DRIVER:
	9-14-2011	Jose Mendora
a)	DATE	SIGNATURE:
ne in skel on, r wy 62/180 r Train a tha doniek		S. Donzaby

	LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048										
	1300 WEST MAIN ST	LEA LA		PHONE (4	405) 236-42	257	DR	1.000 			
NON	-HAZARDOUS WASTE MANIF	EST NO	119632	1. PA	GEOF_	2. TRAIL	LER NO.	Oble			
G	3. COMPANY NAME E O G Resources	4. ADDRESS 5500 Champio				VICK-UP DATE					
E	PHONE NO. (432) #86-3705	CITY Midland	STATE ZIP 6.7			NRCC I.D. NC	),	ing. L			
	7. NAME OR DESCRIPTION OF WASTE SHIPPE a. long Regulated, Non Hazardous Wast			8. CON No.	TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #			
IN	b.	5°		-	South						
Е	c.						1.1				
R	d.NT 54080					13. WASTE P	DOFILEN				
A	12. COMMENTS OR SPECIAL INSTRUCTIONS:					IS. WASTEP	KOPILE N	0.			
Т	IA.     IN CASE OF EMERGENCY OR SPILL, CONTACT       NAME     PHONE NO       24-HOUR EMERGENCY NO.										
0	15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by pro- 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, L										
R	PRINTED/TYPED NAME	and approximate and	SIGNATURE					DATE			
T R A N S	16. TRANSPORTER (1)   NAME: SOR ENTERPRISE   TEXAS I.D. NO. DESCRIPTION		17.   TRANSPORTER (2)     NAME:     TEXAS I.D. NO.								
P O R T	IN CASE OF EMERGENCY CONTACT: <u>EMERGENCY PHONE</u> : 18. <b>TRANSPORTER (1):</b> Acknowledgment of	1444.7330	IN CASE OF EME EMERGENCY PH 19. <b>TRANSPO</b> I	ONE:	21	·	receipt of m	naterial			
E R S	PRINTED/TYPED NAME	DATE 9/14/	PRINTED/TYPEC				DATE				
D F	Lea Land, LLC		Marker 64, U. Ailes East of Ca		•	0, PHONE:	575-88	7-4048			
I A S C P I O L	PERMIT NO. WM-01-035 - New Mex	tico	20. COMMENTS								
S I A T	21 <b>DISPOSAL FACILITY'S CERTIFIC</b> facility is authorized and permitted to receive such	ATION: I Hereby c wastes.	certify that the above d	lescribed	wastes wer	e delivered to t	his facility,	that the			
LY	AUTHORIZED SIGNATURE	raliz	CELL NO.		DATI	e 9/46/2017	TI	ME 10			
GENER	ATOR: COPIES 1 & 6	DISPOSAL SITE	E: COPIES 2 & 3 PY 4			TRANSI	PORTERS:	COPIES 4 & 5			

	LEA LAND DISPOSAL SITE NEW MEXICO MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048											
	1300 WEST MAIN ST			<b>ND, LLC</b> CITY, OK 73106 • F	PHONE (	405) 236-4	257	- PA				
NON	-HAZARDOUS WASTE MANIF	EST	NO	119632	1. PA	GEOF	2. TRAIL	ER NO.	Wally -			
	3. COMPANY NAME	4. ADDRE		the star by the O far		5.1	PICK-UP DATE					
G	E.O.O Revolution		CIN MARK	OTATE		710	INRCC I.D. NO		1-51-1			
	PHONE NO.	CITY		STATE		ZIP 6.	INKCC I D. NC					
Е	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D		8, CONTAINERS			9. TOTAL	10. UNIT	11. TEXAS			
N	alton-Renul sted. Flor: Hazardous Watt				No.	Туре	QUANTITY	Wt/Vol.	WASTE ID #			
IN		<u>.</u>										
Е	b.		-					_				
E	¢.											
R	d											
K	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	0.			
А												
	14. IN CA	SE OF I	EMERG	ENCY OR SPIL	L, CO	NTACT						
Т	NAME PHONE NO 24-HOUR EMERGENCY NO.											
LOB ONTIVEROS 575.087-4048 1								1 1.1.1.				
0	15. <b>GENERATOR'S CERTIFICATION:</b> I Hereby declare that the contents of this consignment are fully and accurately described above by prosphipping 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, L								oplicable			
R	PRINTED/TYPED NAME			SIGNATURE					DATE			
Т	16. TRANSPORTER (1)			17.	TI	RANSPO	ORTER (2)					
R	NAME:			NAME:								
A N	TEXAS I.D. NO.			TEXAS I.D. NO.								
S P	IN CASE OF EMERGENCY CONTACT:		ausar "	IN CASE OF EME	ERGENC	Y CONTA	CT:					
0	EMERGENCY PHONE:			EMERGENCY PH	IONE:							
R T	18. TRANSPORTER (1): Acknowledgment of	of receipt of	fmaterial	19. TRANSPO	RTER	(2): Ackn	owledgment of i	eceipt of m	aterial			
E	PRINTED/TYPED NAME		220	PRINTED/TYPEI	) NAME							
R S	SIGNATURE	DATE	14/51/	SIGNATURE			I	DATE	in the second second			
		ADDRI	ESS:				PHONE:					
DF	Lea Land, LLC			Marker 64, U		· ·	30,	575-88	7-4048			
ΙΑ	PERMIT NO.		<u>30 N</u>	Ailes East of C     20. COMMENTS	arlsbac	1, NM	_					
S C P I O L	WM-01-035 - New Mex	tico		20. COMMENTS								
S I A T	21. <b>DISPOSAL FACILITY'S CERTIFIC</b> facility is authorized and permitted to receive such v		I Hereby c	ertify that the above of	described	wastes we	re delivered to the	nis facility,	that the			
LY	AUTHORIZED SIGNATURE			CELL NO.		DAT	E	TI	ME			
		E in l	47-	1			diam'r	1				
GENER	ATOR: COPIES 1 & 6	DISPO	OSAL SITE	E: COPIES 2 & 3			TRANSI	ORTERS:	COPIES 4 & 5			

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COPYS

TRANSPORTER'S MANIFEST					
		MANIFEST #			
SHIPPENG FACILITY NAME & ADDRESS: EOG Resources Juniper BIP Fed #5		LOCATION OF MATERIAL:			
ea County, NM 9 21# 30-01 5-28577		32.24898 -103.99232			
TRANSPORTER NAME & ADDRESS SDR Enterprises LLC Sz22 S Storico, Hobps, NM, 8824					
SCE CTION OF WASTE: Con-Mazardous Contaminated Su	I.	QUANTITY:			
Eleve Herez, Site Supervisor					
· 5· &	DATE:	SIGNATURE OF CONTACT			
		Steven Acren			
AMU D. TRANSPORTER: (DR.V.		On behalf of EOG Resources			
~	DATE:	SIGNATURE OF DRIVER:			
9-1	4-17	Emli Kodry			

9-14-17

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DATE

## State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

Attached

# **Release Notification and Corrective Action**

	OPERATOR	Initial Report	Final Report
Name of Company	Contact		
EOG Resources, Inc. (Formerly Yates Petroleum Co	orporation) Zane Kurtz		
Address	Telephone No.		
5509 Champions Dr.	432-425-2023		
Facility Name	Facility Type		
Juniper BIP Federal #5	Battery		•
S-6-0	1.0	LINIAL	

Federal	Mineral Owner Federal	API No. 30-015-28557

#### LOCATION OF RELEASE

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

Latitude 32.24898 Longitude 103.99232 NAD83

#### Type of Release Volume of Release Volume Recovered Produced Water and crude oil 60 B/PW, 80 B/O 85 B/PW, 78 B/O Source of Release Date and Hour of Discovery Date and Hour of Occurrence Heater treater 1/1/2016; AM 1/1/2016; AM Was Immediate Notice Given? If YES, To Whom? Yes No Not Required 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? If YES, Volume Impacting the Watercourse. Yes No 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:

Date: 3-6-18 Phone: 432 425 2027 Attach Additional Sheets If Necessary

#### NATURE OF RELEASE