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 TPH¹, 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

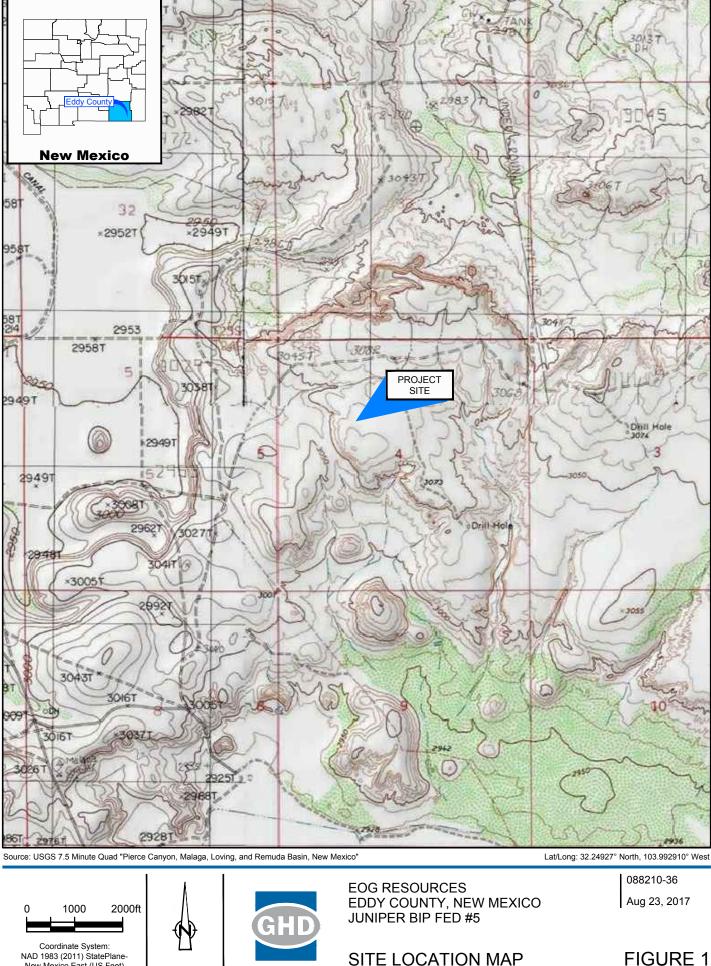
AIC Brand

Alan Brandon Senior Project Manager

BB/mc/36

Bernard Bockisch Albuquerque Operations Manager

Figures



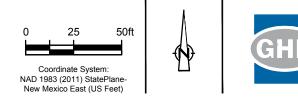
CAD File: I:\CAD\Files\08----\088210-EOG-Madera Ridge 25-1\088210-36(000)GN-DL001.dwg

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 and the second states and
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	公理 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'	and 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 th			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 C 03615 POD2	Code	POD Sub- basin CUB	County ED		Sec	Tws Rng 24S 29E		X 51	Y 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	Received	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	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	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	Received Date: 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:		Received Date: 7/13/2017 9:50:00 AM				
Analyses	Result	PQL Q	Qual U	U nits	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: NSB				
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: NSB				
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	Received	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: MBLK	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 32978	RunNo: 44502
Prep Date:	7/24/2017	Analysis Date: 7/24/2017	SeqNo: 1407130 Units: mg/Kg
Analyte		Result PQL SPK value SPK 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: 44502
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: mg/k	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: mg/ł	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: mg/k	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
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- 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: mg/k	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	5								
Sample ID	MB-32807	SampTyp	De: ME	BLK	Test	Code: El	PA Method	8015D: Gasc	line Rang	e	
Client ID:	PBS	Batch I	D: 32	807	R	unNo: 4	4257				
Prep Date:	7/14/2017	Analysis Dat	te: 7/	17/2017	S	eqNo: 1	398063	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	je Organics (GRO)	ND 1000	5.0	1000		104	54	150			
Sample ID	LCS-32807	SampTyp	De: LC	S	Test	Code: El	PA Method	8015D: Gasc	line Rang	e	
Client ID:	LCSS	Batch I	D: 32	807	R	unNo: 4	4257				
Prep Date:	7/14/2017	Analysis Dat	te: 7/	17/2017	S	eqNo: 1	398064	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	je Organics (GRO)	25	5.0	25.00	0	98.3	76.4	125			
Surr: BFB		1100		1000		112	54	150			
Sample ID	1707652-002AMS	SampTyp	be: MS	3	Test	Code: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	S-088210-36-0710	17 Batch I	D: 32	807	R	unNo: 4	4257				
Prep Date:	7/14/2017	Analysis Dat	te: 7/	17/2017	S	eqNo: 1	398070	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	je Organics (GRO)	22	4.9	24.32	0	89.4	77.8	128			
Surr: BFB		1100		972.8		118	54	150			
Sample ID	1707652-002AMS	D SampTyp	De: MS	SD	Test	Code: El	PA Method	8015D: Gasc	line Rang	e	
Client ID:	S-088210-36-0710	17 Batch I	D: 32	807	R	unNo: 4	4257				
Prep Date:	7/14/2017	Analysis Dat	te: 7/	17/2017	s	eqNo: 1	398071	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	je Organics (GRO)	22	4.8	23.88	0	91.8	77.8	128	0.863	20	
Surr: BFB		1100		955.1		116	54	150	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- 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.						08-Aug-1
Client: Project:	GHD Juniper I	BIP Federa	ıl 5								
Sample ID	MB-32807	Samp	Гуре: МЕ	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 E	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								
Foluene		ND	0.050								
Ethylbenzene		ND	0.050								
Kylenes, Total		ND	0.10								
Surr: 4-Brom	nofluorobenzene	1.4		1.000		140	66.6	132			S
Sample ID	LCS-32807	Samp	Гуре: LC	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 E	Date: 7/	17/2017	S	SeqNo: 1	398111	Units: mg/k	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			
Foluene		1.1	0.050	1.000	0	114	80	120			
Ethylbenzene		1.2	0.050	1.000	0	115	80	120			
Kylenes, Total		3.5	0.10	3.000	0	117	80	120			
Surr: 4-Brom	nofluorobenzene	1.4		1.000		137	66.6	132			S
Sample ID	1707652-001AMS	Samp1	Гуре: М\$	6	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	S-088210-36-0710	017 Batcl	h ID: 32	807	F	RunNo: 4	4257				
Prep Date:	7/14/2017	Analysis E	Date: 7/	17/2017	S	SeqNo: 1	398116	Units: mg/k	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			
Foluene		0.99	0.047	0.9355	0.01852	104	79.8	136			
Ethylbenzene		1.0	0.047	0.9355	0	107	79.4	140			
Kylenes, Total		3.1	0.094	2.806	0	109	78.5	142			
Surr: 4-Brom	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: 4	4257				
Prep Date:	7/14/2017	Analysis E	Date: 7/	17/2017	S	SeqNo: 1	398117	Units: mg/k	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.97	0.023	0.9132	0	106	80.9	132	0.331	20	
Foluene		1.0	0.046	0.9132	0.01852	108	79.8	136	1.95	20	
Ethylbenzene		1.0	0.046	0.9132	0	112	79.4	140	1.98	20	
Kylenes, Total		3.1	0.091	2.740	0	114	78.5	142	2.14	20	
Surr: 4-Brom	nofluorobenzene	1.3		0.9132		145	66.6	132	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.

QC SUMMARY REPORT

- 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
- 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 sample	es?	Yes 🗹	No 🗌	
5. Were all samples received at a temperat	ure 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 br	oken?	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 Chair		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:	nendense normalisense investigenbergense state at an an an anappartie strangengen.			
17. Additional remarks:				· · · · · · · · · · · · · · · · ·

18. Cooler Information

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

....

Clinet	hain	-of-CL	Chain-of-Custody Record	Turn-Around Time:	Time:				T	HALL		N	ENVIRONMEN	NO	Σ	Z	TAI	
Client	E	All rug	Cilem (0H) - Hurguary ve	Standard	C Rush					Z	1	SIS	2	B	ABORAT		OR	>
	4	D	•	Project Name:	ä			13		WWW	www.hallenvironmental.com	ironn	anta	moo				
Mailing	Address	6121	Mailing Address: 6 (21 Tnd): 4 Jone RANK	Junipe	L			4901 Hawkins NE -	Hawki	IN SI		andne	Albuquerque, NM 87109	MN	37109	a		
So 21	N. Alle	avera u	NM 87110	Project #:	-			Tel. 5	505-345-3975	5-397		Fax	505-345-4107	15-41	07			
Phone	1: NO	5-88		088210	210/36						Anal		Request	st				
email c	email or Fax#: Alcon	Acr.	Brandon Bghd.com	Project Manager	ager. 2 o			-				(†os	S,					0
CLAVAC Star	uwuu rackage.		Level 4 (Full Validation)	410	n Urandon	0						"*Od	ьсв					
Accreditation	itation			Sampler:	Steve Perez	2 Strep. Crez 842.				_	0.01	10 ⁵	280				0	U
C NELAP	AP	D Other		105	X Yes	O NO		_				V'EC	8/9	(V	1	_	p.	N 10
	EDD (Type)			Ter	perature: Z.							DN'I			4	R	VU	, Y)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	TM + X3T8	TM + X3T8 88108 H91	TPH (Metho	EDB (Weip	168) a'HA9 RCRA 8 Me	D, 7) anoinA	oitee9 restic	OV) 80928 0728 (VO)	19 1208	H.	142	aalddu8 riA
Than T	165	Soil	5-088210-36-071017-59-01	Yoz class-1	ナにた	-001		-				1	-	_	1		X	-
-	10HO	-	5085210-36-071017-58 02	5	-	-002		-					_	_	-		-	
	050		50-15-21020-98-012880-S			-003		-			_		-		_			******
	105		5-088210-36-071017-51-04			4001					_		-	_	_		-	
	SIII		5-284510-36-021017-59-05			000					_			_	-		_	
	1125		5-0PR210-36-071012-5P-06			-006					_		-	-	-		-	_
3	195		5088210-36-07017-5P-07			500,		-			_			_	-		-	_
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7/11/17	Time: Relin	A ANO	uished by V Redeived by: Date Time Show Corr 07/12/17 0950 submitted to Hall Environmental may be subcontracted to other accreticed is a serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	Redeijed by: SipL. C	and aboratori	Date Time 07/12/17 0950 ries. This serves as notice of this	idissod s	Ity. Any	co-qns	ntracted	data wil	be clea	riv nota	no bet	heana	livical	renort		



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 (Drder: 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				Lab Order: 170	8880
Project: Ju	uniper Fed 5					
Lab ID:	1708880-003			Collection D	ate: 8/8/2017 3:28:00 P	М
Client Sample ID:	S-088210-36-080817	-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: TOM
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: NSB
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: TOM
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: GHD Project: Juniper Fed	15			Lab Orde	er: 170888	0
Lab ID: 1708880)-005		Collection	Date: 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 Pl	
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: NSB 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: NSB
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: NSB 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: NSB 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: NSB 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 ²	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	ory, Inc.		Date Reporte	ed: 8/23/2	017
CLIENT: Project:	GHD Juniper Fed 5				Lab Order:	170888	0
Lab ID: Client Sample II	1708880-012 D: 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: MRA 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**₂
 - 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: mg/k	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: 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-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: mg/k	٨g		
			17/2017				Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual
Prep Date: 8/16/2017	Analysis D	Date: 8/	17/2017	S	SeqNo: 1	425231	-	-	RPDLimit	Qual
Prep Date: 8/16/2017 Analyte	Analysis E Result	Date: 8/ PQL	17/2017 SPK value	S SPK Ref Val	eqNo: 1 %REC	425231 LowLimit	HighLimit	-	RPDLimit	Qual
Prep Date: 8/16/2017 Analyte Benzene Toluene	Analysis D Result 0.99	Date: 8/ 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: 8/ 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
- 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 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-		U	
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 and disants on Arms and the superior and an and	ana hakatan manana dalam katan na y	
Additional remarks: <u>Cooler Information</u> Cooler No Temp ⁶	PC Condition Seal Intact S	eal No Seal Dat	e Sianed B	

ПС-UU-HUsurpus Eque as Standard Rush Intro Acteress: 6/L1 — Плани. _ Www.hallen Intro Acteress: 6/L1 — План. _ Www.hallen Intro Acteress: 6/L1 — План. _ Www.hallen Intro Acteress: 6/L1 _ Un/per Facil _ Max 2000 Albuque regulation _ Bits Actual _ Un/per Facil _ Max 2000 Albuque regulation _ Dobel _ Un/per Actual _ Max 2000 Albuque regulation _ Dobel _ Un/per Acta _ Max 2000 Albuque regulation _ Dobel _ Nontrol _ Facula on 2000 Albuque regulation _ Dobel _ Nontrol _ Facula on 2000 Albuque regulation _ Dobel _ Type and # _ Type 2000 (Type) _ Dobel _ Type _ Tipe _ Facula on 2000 (Type) _ Dobel _ Type _ Type _ Type 200 (Type) _ Dobel _ Type _ Type _ Dob 200 (Type) _ Dobel _ Type _ Dob _ Type			•			1		I		2	2	1	2	2		
Image Project Name: Project Name: </th <th>It: GHD - Albur</th> <th>overane</th> <th>C Standard</th> <th></th> <th></th> <th>Л</th> <th>ļſ</th> <th>4</th> <th></th> <th>Š</th> <th>L V</th> <th></th> <th>C</th> <th></th> <th>Ċ</th> <th>,></th>	It: GHD - Albur	overane	C Standard			Л	ļſ	4		Š	L V		C		Ċ	,>
Imp Activess: 6[2] T_Alia, S_LaJ, R_AliF UM/Iper Feck #5 4901 Hawkins NE 200 Albuquer eq. Albo quert Albo Project # 0M/Iper Feck #5 4901 Hawkins NE 200 Albuquer eq. Albo quert Albo Project # 0K8 210 / S_G 10 10 200 Albuquer eq. Albo quert Albo Project # 0K8 210 / S_G 10 10 200 Albuquer eq. Albo quert Albo Project # Project # 10 11 10 200 Albuquer eq. Albo Project # Project # 10 11 10 10 200 Albuquer eq. Albo Differ 72-cc 72-cc 10 11 10 Standard Differ 77-cc 72-cc 72-cc 10 10 Standard Differ 77-cc 72-cc 10 11 10 Standard Differ 77-cc 77-cc 10 11 10 Standard Differ 77-cc 77-cc 10 11 10 Standard Differ 17-cc 200 11 10 11 Standard Differ 17-cc 200 11 10 11 Standard Differ 17-cc 200 10 10 11)		Project Name					-	ed ww	Ienvir	nemor	tal co	2	ŝ	5	
100 Albusture gate Albuston Project #: 0.88210/36 Tel. 505-584+06.77 Tel. 505-383-387 In or Fast: 私に人下のdon 色 gate Albuson Project Maneger: 0.88210/36 Project Maneger: 0.88210/36 Cor Package: Dillor Fast: 私に人下のdon 色 gate Albuson Project Maneger: 0.88210/36 Project Maneger: Cor Package: Dillor Fast: 私にからいたい Bate Albuson Project Maneger: 2.00 Project Maneger: Cor Package: Dillor: X Free Al (Full Validation) Bate Albuson Project Maneger: Cor Package: Dillor: X Free Al (Full Validation) Bate X + MTBE + 1PH (Gas control) Project Albuson Cornalia Type Type Dillor: X + C Project Albuson FEAP On Dos: X Yes Do X Project Albuson FEAP Done Type TOS X Project Albuson FIT Matrix Sample Request ID Type TOS X Project Albuson FIT FIT Done X Matrix Sample Request ID Yes X Project Albuson FIT FIT Done Type Type Done X Project Albuson FIT FIT	ng Address: 6121	School	Juniper	ted #	0	4	H 106	awkins	NE	Albu	duerqu	NN ,et	A 871	60		
III of Faret: ALA. Standard Policit Manager: Ala. Standard	200, Albuquerq		Project #:	88210/3	6		Tel. 50	5-345	3975	Fa	Fax 505-345-4107 ysis Request	-345	4107			14
CC Package: District Plan 5 rond on the state Plan 5 rond on the state Standard Internation	I or Fax#: Ac.A.	Trandon Oghdicom	Project Mana	ger:		_	-		-		(*O		-	-		
reditation TELAP Other Sempler: <i>Starte, Ptr. True</i> Reservative Time Matrix Sample Request ID Container Preservative Time Matrix Sample Request ID Container Preservative Time Matrix Sample Request ID Type and # Type Type	iC Package: andard	Level 4 (Full Validation)		volor					(SMI		0001201000			op		
CDD (Type) Sample Request ID Container Preservative HEAL No. Time Matrix Sample Request ID Type and # Type Type BTEX + MTBEE 1 520 5x1 588210-34.0808175/Pri ² /44 Mz. TPH 801560 G41 1 528 50820-34.0808175/Pri ² /44 Mz. TPH 80156 G64 Method 56 1 528 50820-34.0808175/Pri ² /44 Mz. -0.02 K TPH 80156 G44 1 528 50820-34.0808175/Pri ² /44 Mz. -0.02 K EDB (Method 56 1 152 50820-34.0808175/Pri ² /44 Mz. -0.02 K EDB (Method 56 1 152 50820-34.0808175/Pri ² /44 -0.02 K EDB (Method 56 1 1118 50820-34.0806175/Pri ² /44 -0.02 K EDB (Method 56 1 1118 50820-34.0806175/Pri ² /44 -0.02 K EDB (Method 56 1 1122 50820-34.0806175/Pri ² /44 -0.02 K EDB (Method 57				Q	2 Z						A CHARGE AND A		(\			(N)
Time Matrix Sample Request ID Container Preservative HEAL No. Type Matrix Sample Request ID Type and # Type Matrix Matrix Matrix Matrix Ref Matrix Matrix <th< td=""><td>DD (Type)</td><td></td><td>10.000</td><td>perature: 3,</td><td>201</td><td></td><td></td><td>_</td><td></td><td></td><td></td><td>118</td><td>0</td><td>EX D</td><td>v -1</td><td>J N)</td></th<>	DD (Type)		10.000	perature: 3,	201			_				118	0	EX D	v -1	J N)
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	Time:	Wer Cerek	Received	4	1	Rema	rks:									
5	Time: Refine	Sched by:	Received by:	K	115 Ti											



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 Reported: 9/11/2017					
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: MRA 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: ml	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: mg/K	(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	^{NE} 09 Sam 07	ole Log-In Che	eck List
Client Name: GHD	Work Order Number	r: 1708H69		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 maana kata aha aha maa da araa disha kata kata kata kata kata kata kata ka	and a state of the second s			
17. Additional remarks:				i	
18. Cooler Information	ndition Seal Intact Seal No Yes	Seal Date	Signed By		na se se se

	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request		(SM (SM N / C	32 F 32 F 81 (C	141 (L.1)(L.1) (L.	HC 118 118 118 118 118 118 118 118 118 11	885 00 2 00 4 00 0 00 4 00 0 00 4 0 00 4 0 0 0 0	5 81EX + MI 81EX + MI 81EX + MI 80158 8081 Резис 8081 Резис 8081 Резис 82608 (VO 82608 (VO 82608 (VO 82508 (VO							me Remarks:	STF STF	submined to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be dearly notated on the analytical report	
Turn-Around Time:	🗹 Standard 🗆 Rush	Project Name:	duniper ted #5	Project #: 688210/36	•	Project Manager:	Alan Drandon		steve lere 2	On Ice: Yes Do	Sample Temperature: 7.4	Type and # Type 1708 H to	Hazelers. 1 ICE -001	0					Received Date Time	Eiver Date Tin	Inscred to other accredited laboratories. This serves as notice of	
Chain-of-Custody Record			Mailing Address: 6/21 Tudian School Rd NE Ste 200		Phone #: 505-884- 5672	Alan. Brandon Bghd. com	ige:	Level 4 (Full Validation)	on There is a second se		EDD (Type) Section 2	Date Time Matrix Sample Request ID	828/17/14/4 Soil 5-0000-36-002001-58-14-6-10-4						Date: Time: Relingested by: S/2017 X'45 Joven Part	Hime: Relinguished by:	It recessary, sampley submitted to Hall Environmental may be subcon	

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		CITI		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						
	12. COMMENTS OR SPECIAL INSTRUCTIONS:				13	. WASTE PH	ROFILE NO	О.
Α	and from the A form of heart the at		- Colored at	-				
1	14. IN CA NAME	SE OF EMERG	ENCY OR SPIL	L, CONTA	СТ	24-HOUR	EMERGEI	NCY NO
∛ 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
R	PRINTED/TYPED NAME		SIGNATURE	1				DATE
Т	16. TRANSPORTER (1)		17.	TDAN	SPORT	FD (7)	_	
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:			
0		iy 444-7390	EMERGENCY PH					11.47.71 - 1
R T	18. TRANSPORTER (1): Acknowledgment of		19. TRANSPOI		Acknowle	dgment of re	eceipt of m	aterial
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. DISPOSAL FACILITY'S CERTIFIC 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 15
	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 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			ND, LLC A CITY, OK 73106 • F	HONE (405) 236-4	257	DF	- 5 - 6 3 - 60 - 61				
NON	-HAZARDOUS WASTE MANIF	EST	NO	119522	1. PA	GEOF	2, TRAIL	ER NO	112				
6	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.				
Α	LINIPER SIP FED # C												
				GENCY OR SPIL	L, CO	NTACT							
Т	NAME	PHO	NE NO				24-HOUR	EMERGE	NCY NO				
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R	PRINTED/TYPED NAME			SIGNATURE					DATE				
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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. TRANSPORTER (1): 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. DISPOSAL FACILITY'S CERTIFIC 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
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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 1 1 1			
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			ND, LLC 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	
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ŀ	b.								
ŀ	c.								
	d. A Z CREW AND Z	10							
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	UNIPER BIP FED 4.5						15 010121	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: 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. TRANSPO 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
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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			ND, LLC 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.	CITY		STATE			FNRCC 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.					319			-			
	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	State of the second sec		_									
T	NAME		F EMERG	ENCY OR SPIL	L, CO	NTACT	24-HOUR	EMERGE	NCY NO.			
Т	JOE ONTIVEROS	675-	987-4048			- (1.1					
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	ll respects in proper co	ndition f	or transport	by highway acc	ording to a	pplicable			
R	PRINTED/TYPED NAME			SIGNATURE			0 - 0	-	DATE			
Т	16. TRANSPORTER (1)			17.	TI	RANSPO	ORTER (2)					
R A	NAME: SOR ENTERPRISE	LLT		NAME:					196.PM			
N S	TEXAS I.D. NO.	entero e	RUSE	TEXAS I.D. NO.					- Jacobs			
P O	IN CASE OF EMERGENCY CONTACT:	1.441-		IN CASE OF EME		Y CONTA	CT:		1.000			
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) NAME	1						
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. DISPOSAL FACILITY'S CERTIFIC 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	al	R	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			

334

COPY 4

8	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		AND, LLC	PHONE (.405) 236-4	257	Dł) (* 12.544)				
NON	-HAZARDOUS WASTE MANIF	EST NO	119521	1. PA	GEOF	2_TRAII	.er no.	DOL				
G	3. COMPANY NAME	4. ADDRESS	mgaller: Clr		5, 1	PICK-UP DATE						
G	PHONE NO.	CITY	STATE			FNRCC I.D. NC).					
E	14751090-3106	Midiand			CIIB		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				T 60								
т	14. IN CA NAME	SE OF EME. PHONE NO	RGENCY OR SPIL	.L, CO.	NIACI	24-HOUR	EMERGE	NCY NO.				
0	15.GENERATOR'S CERTIFICATION: 1 shipping name and are classified, packed, marked, and international and national government regulations, ind	l labeled, and are	in all respects in proper co	ondition f	or transport	t by highway acc	ording to a	pplicable				
R	PRINTED/TYPED NAME		SIGNATURE					DATE				
T	16. TRANSPORTER (1)	_	17.	T	RANSPO	ORTER (2)		-				
R A	NAME:		NAME:									
Ν	TEXAS I.D. NO.		TEXAS I.D. NO.					design in				
S P	IN CASE OF EMERGENCY CONTACT:	NHON RUS	IN CASE OF EMI	ERGENC	Y CONTA	CT:						
O R	EMERGENCY PHONE: 18. TRANSPORTER (1): 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. DISPOSAL FACILITY'S CERTIFIC . 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	ΤU	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:	LOCATION OF MATERIAL: 32.24898 -103.99232
NPI# 30-025-28577		
RAMOPORTER NAME & A	DDRESS:	
InR Enterprises LLC		
a222 Si Stoneo, Hobas, NN	/, 8 8240	
SCTUTICIS OF MASTE: Top-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 MNSTORTER:	(DR(1))	On behalf of EOG Resources
	DATE:	SIGNATURE OF DRIVER:
		Kener
	DATE	SIGNATURE

-2115 Пол. Пол. Стору 62**/180** стор Пол. Пол. Стора сС

	LEA LAND DIS MILE MARKER #64 US HWY						KIC	0
	1300 WEST MAIN ST		ND, LLC A CITY, OK 73106 • 1	PHONE (4	105) 236-4	4257	DF	
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	TNRCC I.D. NO		7-9.UL .
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.	- Comment	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		SE OF EMEDO	ENCY OR SPIL	LCON	ITACT			
Т	NAME	PHONE NO	JENCI UK 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. TRANSPORTER (1)		17.	TR	ANSPO	ORTER (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 EME		CONTA	CT:		
R T	EMERGENCY PHONE: (5/5) 18. TRANSPORTER (1): Acknowledgment of	1 4 4 4 7 8 13 of receipt of material	EMERGENCY PH 19. TRANSPO		2): Ackn	owledgment of r	eceipt of m	aterial
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.		DAT	E	IIT	ME 1
1	DATE LINE	alir	/			0/14/2017	I	2:
GENER	ATOR: COPIES 1 & 6		E: COPIES 2 & 3			TRANSP	ORTERS:	COPIES 4 & 5

0	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	NON-HAZARDOUS WASTE MANIFEST NO 119631 1. PAGE_OF_ 2. TRAILER NO.										
	3, COMPANY NAME	4. ADDRE	SS			5. I	PICK-UP DATE				
G	E.P.Q. Resources	5509 (Trate (199								
	PHONE NO.	CITY		STATE		ZIP 6. T	INRCC I.D. NC		0.000		
Е					8. CON	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	KOFILE N	0.		
Α	KANNER DIF RED # 5					14	100				
				ENCY OR SPIL	L, COI	NTACT	24 HOUD	EMERCE	NOVNO		
Т	NAME	PHONE	NO		24-HOUR EMERGENCY NO.						
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.	TF	RANSPO	ORTER (2)				
R A	NAME:			NAME:							
N N	TEXAS I.D. NO.			TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT: SHAR		NEW	IN CASE OF EME	RGENC	Y CONTA	CT:				
r O	EMERGENCY PHONE:		1.1.1.1.1	EMERGENCY PHONE:							
R T	18. TRANSPORTER (1): Acknowledgment of										
Е	PRINTED/TYPED NAME			PRINTED/TYPED NAME							
R S											
	SIGNATURE	DATE	- gold	SIGNATURE			<u> </u>	DATE			
		ADDRE			G II	(0.11.C	PHONE:		T 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	L, 1 1 1 V 1					
S C P I	WM-01-035 - New Mex	ico	Meni	074							
OL SI	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			· · ·		shi ta					
LY	AUTHORIZED SIGNATURE	- 11		CELL NO.		DAT	E	TI	ME		
	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		
NHD 15-633-5782	DATE:	SIGNATURE OF CONTACT:
		Steven Peren
LAME OF TRANSPORTER: (DRIVER))	On behalf of EOG Resources
	DATE:	SIGNATURE OF DRIVER:
DISPOSAL SITE: a Land LLC life Marker 34, Hwy 62/180 East Eirisbad, 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								
	LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257								
NON	-HAZARDOUS WASTE MANIFE	EST	NO	119630	1. PA	GE <u>OF</u>	2. TRAIL	ER NO.	DA
G		4. ADDR 5500	ESS Chanapa	ar. 13.		5. I	PICK-UP DATE		
G	adau ya Lukawasana	CITY	C. 6 200 (17 pr)	STATE		ZIP 6.7	INRCC I.D. NO		-
Е	(432) 086-3705	blief ar	w]	TX.		700	0		11 77774 0
	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, Non Hazardous Waste					CM		X.	
	b.								
E	c								
R	d.MT 51100 46.76	D							
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13. WASTE P	ROFILE N	0.
Α	JUNIPER BIP FED #5						100		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO.								
Т			97-4048					Linditol	
0	15. GENERATOR'S CERTIFICATION: I shipping name and are classified, packed, marked, and international and national government regulations, incl	labeled, a	and are in al	l respects in proper con	ndition fo	or transport	by highway acc	ording to a	pplicable
R	PRINTED/TYPED NAME			SIGNATURE			<i></i>		DATE
Т	16. TRANSPORTER (1)	-		17.	TI	RANSPO	DRTER (2)		
R A	NAME: SOR ENTERPRISE L	1.12		NAME:					
N S	TEXAS I.D. NO.		- 1 - 1	TEXAS I.D. NO.					
P O		liofi		IN CASE OF EME	1	Y CONTA	CT:		
R	EMERGENCY PHONE: (275) 18. TRANSPORTER (1): Acknowledgment of	receipt o		EMERGENCY PH 19. TRANSPOL		(2): Ackno	owledgment of r	eceipt of m	aterial
T E	PRINTED/TYPED NAME		×	PRINTED/TYPED	NAME			÷	i de la composición de la comp
R S	SIGNATURE	DATE	6/14/	Signature				ATE	
	SUNATOR	ADDR	_				PHONE:		-
DF	Lea Land, LLC		Mile	Marker 64, U. Ailes East of Ca				575-88	7-4048
I A S C P I O L	A C PERMIT NO. 20. COMMENTS								
S I A T	21. DISPOSAL FACILITY'S CERTIFICA facility/is authorized and permitted to receive such wa		: I Hereby c	ertify that the above d	lescribed	wastes wer	e delivered to th	is facility,	that the
LY	AUTHORIZED SIGNATURE	1/13		CELL NO.		DAT	e 9/14/2017	TH	ME 40
GENER	ATOR: COPIES 1 & 6	DISP	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			ND, LLC CITY, OK 73106 • F	PHONE (405) 23	6-4257		1	in the second	
NON	-HAZARDOUS WASTE MANIF	EST	NO	119630	L. PA	GE	OF	2. TRAIL	LER NO	tern I	
	3. COMPANY NAME	4. ADD			-		5, PICK	-UP DATE		1.1.1.1.1	
G	E.O.O. Reserved - Loss	1 serie		en Dy			921	472017		12	
	PHONE NO.	CITY		STATE		ZIP	6. TNR	CC I.D. NO),	74	
Е	(432)-686-3705	Midla	mid.	100	19	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 - Regulated, Non Prizerdous Wash				1	CN			1		
	b.						_				
Е											
E	с.										
R	d	8D									
ĸ	12. COMMENTS OR SPECIAL INSTRUCTIONS:	~					13	WASTE P	ROFILE N	О.	
Α	NHIPER DIPFED #5								14.	17	
A		SE OI		ENCY OD SDU				_	_	- <u>An</u>	
	14. IN CA NAME		ENIERG	ENCY OR SPIL	L, CO	NIAC	1	24-HOUR	EMERGE	NCY NO.	
Т	JOE OUDVEROS										
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	or transp	ort by h	ighway acc	ording to a	oplicable	
R	PRINTED/TYPED NAME			SIGNATURE DATE					DATE		
Т	16. TRANSPORTER (1)	_		17.	ТІ	RANS	PORT	'ER (2)			
R				NAME:							
A N	NAME:	tile at									
S	TEXAS I.D. NO.			TEXAS I.D. NO.							
P	IN CASE OF EMERGENCY CONTACT:			IN CASE OF EMERGENCY CONTACT:							
O R	EMERGENCY PHONE: 18. TRANSPORTER (1): Acknowledgment of			EMERGENCY PHONE: 19. TRANSPORTER (2): Acknowledgment of receipt of material							
T E											
R	PRINTED/TYPED NAME			PRINTED/TYPED NAME							
S	SIGNATURE	DATE	9/15	SIGNATURE				E	DATE		
		ADD	RESS					PHONE:			
DF	Lea Land, LLC			Marker 64, U.		·			575-88	7-4048	
ΙΑ			<u>30 N</u>	Ailes East of Ca	arlsbac	1, NN				_	
S C P I	PERMIT NO. WM-01-035 - New Mex	tico		20. COMMENTS							
0 L	21. DISPOSAL FACILITY'S CERTIFIC	ATIO	Nº I Hereby	pertify that the above of	lescribed	waster	were de	livered to the	nis facility	that the	
S I A T	facility is authorized and permitted to receive such w		N: I Hereby d		reserved	wastes	were de		no racinty,	mat the	
L Y	AUTHORIZED SIGNATURE			CELL NO.		D	ATE		TR	ME	
							9/			1.	
	ATOR: COPIES 1 & 6	DIO	DOG LL OUT	E COPIES 2 & 3	_	_	_		COMERCE A	COPIES 4 & 5	

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		MANIFEST #
SHIPPING FACILITY NAME & ADDE 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- lave Harez, Site Supervisor		
ب - د د ¹ - د	DATE:	SIGNATURE OF CONTACT:
RM. DE LAANSPORTER: (DR.V.)	i)	
Emili-Re	DATE:	SIGNATURE OF DRIVER:
2,3 ст. ПР антон ле., тке, оч, таду 52/180 с., 10. – с.с. ск. ск. ст.	DATE:	SIGNATURE:

06 - R

	TRANSPORTER'S	MANIFEST #				
SHIPPING FACILITY NAME & A EOG Resources	NDDRE SS:	LOCATION OF MATERIAL:				
Loniper BIP Fed #5 Lea County, NIM VPI# 80-006-28577		32.24898 -103. 99232				
TRANSPORTER NAME & ADDI TOR Enterprises LLC UZ22 El Storico, Hopps, NM, 8						
SCP LTACK OF WASTE:		QUANT!TY:				
lon-liezardous Contaminate	₫ < ≥i;	49,540				
C F CM CONTAINT eve Parez, Site Supervisor						
-15-€	DATE:	SIGNATURE OF CONTACT				
		Steven Aren On behalf of EOG Resources				
AM. 1911 MANSAGREER: (DR	.V)					
	DATE	SIGNATURE OF DRIVER:				
	9-14-2011	Jose Mendora				
.)	DATE	SIGNATURE:				
ne in skelon, ruly 62 /180 Tiel - Theodeleti	<u>La si</u>	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		11
E	PHONE NO. (432) #86-3705	CITY Midland	STATE	797	and the second se	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°		-	Sant			
Е	c.						1.1	
R	d.NT 54080					12 WA OTE D	DOFILEN	
A	12. COMMENTS' OR SPECIAL INSTRUCTIONS: 13. WASTE PROFILE NO. JUNIPER BIP FED # 5 14. WASTE PROFILE NO.						0.	
Т	NAME	SE OF EMERG	ENCY OR SPIL	L, CON	NTACT	24-HOUR	EMERGE	NCY NO.
0	JOE ONTWEROS 15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an	d labeled, and are in al	l respects in proper co	ndition fo	r transport	by highway acc	cording to a	pplicable
R	international and national government regulations, ir PRINTED/TYPED NAME	icitiding applicable stat	SIGNATURE					DATE
T R A N S	16.TRANSPORTER (1)NAME:SOR ENTERPRISETEXAS I.D. NO.	<u>цс</u>	17. NAME: TEXAS I.D. NO.	TF	RANSPO	DRTER (2)	7	L, 400-
P O R		1444.7330	IN CASE OF EME EMERGENCY PH 19. TRANSPO I	ONE:	21	·	1. <i>6</i> . 6	
T E R S	18. TRANSPORTER (1): Acknowledgment of PRINTED/TYPED NAME	DATE 2/14/	PRINTED/TYPEE	NAME				
D F I A	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	rico	20. COMMENTS					
S I A T	21. DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v	ATION: I Hereby c wastes.	ertify 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 DIS MILE MARKER #64 US HWY							KIC	0
LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257									
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		*		TAINERS	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.
Α	JUNIPER BIP FED #5								
	14. IN CA	SE OF I	EMERG	ENCY OR SPIL	L, CO	NTACT			
Т	NAME	PHONE					24-HOUR	EMERGE	NCY NO,
	JOE ORTHEROS		7-1018		- i	C 11		1 1.1.1.	
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled, a	nd are in al	l respects in proper co	ndition fo	or transport	t by highway acc	ording to a	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
		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. DISPOSAL FACILITY'S CERTIFIC 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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J-to_

14.10

COPYS

TRANSPORTER'S MANIFEST						
		MANIFEST #				
SHIPPING FACILITY NAME & ADD FOG Resources Juniper BIP Fed #5	RE SS:	LOCATION OF MATERIAL:				
ea County, NM 991# 30-01 5-28577		32.24898 -103.99232				
TRAMSPORTER NAME & ADDRESS SDR Enterprises LLC SZ22 S Storico, Hobps, NM, 8824						
Sof CTION OF WASTE: Yon-Hazardous Contaminated St	11	QUANTITY: 20				
CILLY CONTAINS Evel-srex, Site Supervisor 12						
15 K 82.	DATE:	SIGNATURE OF CONTACT:				
AME T. TEMNSPORTER: (DR.V.	.)	On behalf of EOG Resources				
	•					
	DATE:	SIGNATURE OF DRIVER:				
9-1	4-17	Enlickdry				

9-14-17

54 (ing. Ta) 413 (ing. Ta) .denning kenning thirty 82/180 same

DATE