

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

October 31, 2023

NMOCD District II 506 W. Texas Artesia, NM 88210

Re: Jackson B #57

30-015-41003 L-1-17S-30E Eddy County, NM nAB1900435050

EOG Resources, Inc. is submitting the enclosed Closure Report for the above-referenced site. The Closure Report is being submitted requesting closure of Incident #nAB1900435050.

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

Respectfully,

Chase Settle

Rep Safety & Environmental Sr

EOG Resources, Inc.

Chase Settle



October 31, 2023

Jackson B #57

**Closure Report** 

L-1-17S-30E

**Eddy County, NM** 

October 31, 2023

nAB1900435050



October 31, 2023

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#### I. Location

From the intersection of US HWY 82 and Square Lake Road (CR 220), head north on Square Lake Road for 3.2 miles, the release point is the flow line sleeve under the county road.

#### II. Background

A release was discovered on December 1, 2018, from the Jackson B #57 poly flow line that runs through a sleeve under Square Lake Road (CR 220) to the gathering facility. The release consisted of 2 B/CO and 6 B/PW with 2 B/CO and 5 B/PW recovered. A contractor was obtained to excavate soils that were impacted by the release. Approximately 67 cubic yards of soil were excavated, 22 cubic yards from the excavation named #1 on the east side of Square Lake Road and 45 cubic yards from the excavation named #2 on the west side of Square Lake Road, leaving both sites excavated to approximately six (6) feet below grade surface (bgs). All excavated soil was sent to a NMOCD approved disposal facility. The affected area in #1 was approximately ten (10) feet by ten (10) feet and #2 was approximately twenty (20) feet by ten (10) feet. Initial vertical and horizontal soil sampling was conducted at the location with use of a backhoe on January 29, 2019.

Due to the presence of active flow lines, the asphalt county road, and the area consisting of sand soils, vertical delineation was unable to be accomplished through traditional mechanical methods. To fully delineate the sites, EOG Resources, Inc. installed a Geosynthetic Clay Liner (GCL) under the flow lines and road sleeve at six (6) feet bgs due to the completion of the horizontal confirmation sampling for the excavated areas. The GCL was installed to prevent any further vertical movement of contaminants including the chloride issues identified in the #2 excavation area. The two excavated areas (#1 and #2) were backfilled with caliche to grade to create a flat, stable surface with the ability to support an Air Rotary Core Rig. With the flow line positions clearly marked after excavation, EOG was able to safely complete vertical delineation of the release areas. Once the bottom of impaction was determined, slotted 3-inch PVC pipe was installed into the bore holes to serve as a gravity flow mechanism for a microbial bioremediation product, Rigby Taylor (RT) Remediact into the impacted areas to perform in situ remediation. Approximately one (1) gallon of the mixed product was used for every estimated cubic yard of impacted soil. The ratio of RT Remediact mixed with fresh water was 1 to 10.

#### II. Scope of Work Completed

The initial excavation was lined with a Geosynthetic Clay Liner and backfilled with similar type topsoil on May 17, 2019. Then a core rig was contracted to perform soil sampling activities and install treatment wells for gravitational flow injection of RT Remediact to begin bioremediation of the impacted soils. On June 25 and 26, 2019, samples were taken with treatment wells completed once sampling was concluded. There were 8 treatment wells installed at the site, 4 in each of the 2 designated release areas consisting of 3-inch slotted PVC pipe. The wells in the #1 area were set as follows: 1-1 was set to 40 feet below grade surface (bgs), 1-2 was set to 65 feet bgs, 1-3 was set to 60 feet bgs, 1-4 was set to 55 feet bgs. The wells in the #2 area were set as follows: 2-1 was set to 35 feet bgs, 2-2 was set to 35 feet bgs, 2-3 was set to 35 feet bgs, and 2-4 was set to 35 feet bgs. Figure 3, Treatment Well Map, displays all 12 of the treatment wells installed, 6 at each site.



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Treatment of the impacted soils was conducted on July 14, 2019. This consisted of mixing RT Remediact with fresh water to create the prescribed mixture ratio provided by the manufacturer at a 1:10 ratio. The total mixed volume was 1650 gallons, 150 gallons RT Remediact and 1500 gallons of fresh water. Treatments were spread over 3 days, with 550 gallons gravitationally injected on each day between all 8 treatment wells.

On October 15 and 16, 2019, confirmation sampling was conducted using the guidelines from the approved work plan. During the confirmation sampling, it was determined rather quickly that the impacted soils hadn't been fully remediated. It was also discovered that the soils at deeper depths had a distinct smell of the remediation product where the soils above did not display that distinct odor. It was determined to turn the confirmation sample bore holes into additional treatment wells, but to set them at shallower depths. In the #1 Area the 1-1C bore hole was drilled between the 1-1 and 1-3 initial sample points, and the 1-2C bore hole was drilled between the 1-2 and 1-4 initial sample points. Area #2 followed the same pattern with 2-1C being between 2-1 and 2-3, and 2-2C being between 2-2 and 2-4. 1-1C was set to 45 feet bgs, 1-2C was set to 25 feet bgs, 2-1C was set to 20 feet bgs, and 2-2C was set to 20 feet bgs. Due to the number of treatment wells in each area and the active flow lines, a request to reduce the number of confirmation borings down to one (1) was approved by NMOCD on November 6, 2019.

Further treatment occurred March 16-18, 2020, following the same methods and steps as in July 2019, with 1500 gallons of the RT Remediation mixture being applied over 3 days. This consisted of gravitational flow of the mixture down all 12 bore holes with 550 gallons used during each application. On October 26, 2020, after delay due to Covid-19 risks and restrictions, a core rig was contracted to assist with collection of confirmation samples. As displayed in the Sample Results Table below, impacts remained in the soils which extended the remedial timeline required.

In 2021, due to new internal division guidance, this project was moved under the supervision of an environmental consultant, GHD. With two (2) treatments already completed for the site in 2019 and 2020, additional treatment of the wells occurred August 23-25, 2021. The treatment was completed in the same manner as previously completed, with 1650 gallons of RT Remediact mixture applied gravitationally to the 12 treatment wells over a 3-day period. On January 6, 2022, GHD and a contracted core rig performed confirmation sampling which encountered similar results as the previously sampling events indicating that impacts remained above closure criteria. These results are included in the Sample Results Table.

In 2022, GHD suggested an alternate strategy for treating the site which correlated with other bioremediation/vent well projects which were under their supervision. This consisted of injecting the wells with RT Remediact every 2 weeks for 12 weeks, totaling six separate treatments. The site treatment began on August 22, 2022, continuing through to October 24, 2022. The evolved treatment included the injection of 440 gallons of mixed RT Remediact (40 gallons) and fresh water (400 gallons) for all 6 treatment events. On November 15, 2022, GHD performed confirmation sampling, advancing 2 borings collecting samples in 5-foot intervals, with laboratory results indicating that closure criteria were still unmet.

Under new guidance from within GHD, a plan to continue remedial injection with RT Remediact was modified to include treatment on a 3-week schedule versus the 2-week schedule previously enacted. The 3-week schedule called for the same volume, 440 gallons of the mixture (RT Remediact and fresh water), to be injected gravitationally over 18 weeks for 6 separate



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treatments. On April 19, 2023, GHD performed further confirmation sampling. With a contracted core rig, 2 borings were advanced collecting samples in 5-foot intervals with one boring completed in each area. Laboratory results indicated that the east area (Area #1) was almost at the criteria for closure with only the CB-1A 35' sample being above criteria. The west area (Area #2) still showed further impacts requiring bioremediation.

Based on the amount of time the RT Remediact had been active within the soil, it was determined to attempt using a different microbial strain in the next round of injection. The basis behind the change was that introduction of a new microbial strain from a different manufacturer may break the carbon chains that had built up a tolerance or were otherwise unaffected by RT Remediact. A readily available alternative strain, Micro-Blaze (MB), was used for injection into the treatment wells. The injection reverted to the previous method of every 2 weeks for 12 weeks. Since the manufacturer recommendation for MB is a 1:10 ratio of MB to fresh water, treatment again consisted of 440 gallons of mixed product being injected during each of the 6 separate treatment applications. Treatment activities began on June 26,2023 and were completed on September 4, 2023.

#### III. Confirmation Results

On September 27, 2023, GHD along with a contracted core rig advanced two soil borings (CB-1B & CB-2B) for the purpose of collecting confirmation soil samples within the bioremediation areas. Samples were collected in 5-foot intervals beginning at 10 feet below ground surface (bgs) at both sample locations. CB-1B was completed in the east remediation area (Area #1) and CB-2B was completed in the west remediation area (Area #2). CB-1B was advanced to a depth of 75 feet bgs and CB-2B was advanced to a depth of 50 feet bgs. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by EPA Method 8015B Modified, and chloride by EPA Method 300 by a third-party laboratory, Envirotech Inc. in Farmington, New Mexico.

All sample results returned below Table 1 Closure Criteria for a site with groundwater depth greater than 100 feet. Figure 2, Confirmation Sample Map, depicts the locations of the confirmation borings. Analytical results are provided in Table 1 with the laboratory reports included in Appendix B.

#### IV. Conclusion

Site characterization, delineation, and remediation have been completed for Incident nAB1900435050 in accordance with applicable NMOCD guidance and regulations. Based upon the supporting documentation which exhibits that soil impact concentrations are below Table 1 closure criteria, EOG respectfully requests closure of nAB1900435050.

If you have any questions or comments concerning this Closure Report, please do not hesitate to contact me at (575) 748-1471.

Chase Settle S&E Rep Sr

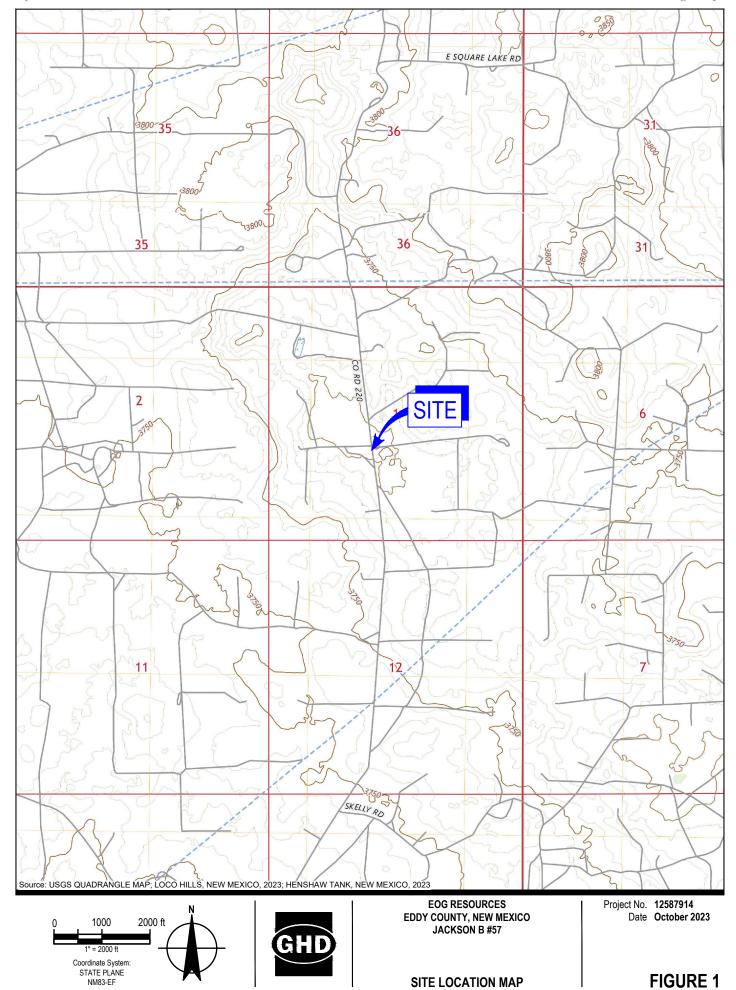
Chase Settle

Chase Settle@eogresources.com



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# Figure 1 Site Map





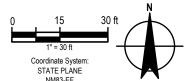
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# Figure 2 Confirmation Sample Map



**LEGEND** 

CONFIRMATION SAMPLE LOCATION





EOG RESOURCES EDDY COUNTY, NEW MEXICO JACKSON B #57



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# Figure 3 Treatment Well Map





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# **Table 1**Sample Results Table

Total Petroleum Hydrocarbons (TPH)													
	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Date	(ft bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						Table I Closu	re Criteria for	Soils >100 ft Dep	th to Groundwat	ter 19.15.29 NMA	AC .		
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
						Confirm	nation Soil Sam	ples					
CB-1B	9/27/2023	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	45.4
CB-1B	9/27/2023	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	54.5
CB-1B	9/27/2023	25	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	30	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	22.4
CB-1B	9/27/2023	35	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	40	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	45	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	50	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	55	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	60	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	65	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	70	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	75	<0.025	<0.025	<0.025	<0.025	<0.025	<20	286	286	352	638	<20
CB-2B	9/27/2023	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	197
CB-2B	9/27/2023	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	91.7
CB-2B	9/27/2023	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	43
CB-2B	9/27/2023	25	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	598
CB-2B	9/27/2023	30	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	5070
CB-2B	9/27/2023	35	<0.025	0.422	1.04	1.44	2.90	24.5	298	322.5	89.6	412	5500
CB-2B	9/27/2023	40	0.045	1.11	1.85	2.33	5.34	67.9	215	282.9	60.3	343	7300
CB-2B	9/27/2023	45	0.0765	0.0905	0.035	<0.025	0.20	<20	<25	<25	<50	<50	9260
CB-2B	9/27/2023	50	0.145	0.0995	<0.025	<0.025	0.2445	<20	<25	<25	<50	<50	1380
CB-1A	4/19/2023	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	97
CB-1A	4/19/2023	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	60.9
CB-1A	4/19/2023	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	44.2
CB-1A	4/19/2023	25	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	38.7
CB-1A	4/19/2023	30	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	23.9
CB-1A	4/19/2023	35	<0.025	0.815	2.65	3.4	6.865	114	1730	1844	<50	1844	<20
CB-1A	4/19/2023	40	<0.025	0.0895	0.286	0.376	0.7515	28.8	429	457.8	12	469.8	<20
CB-1A	4/19/2023	45	<0.025	<0.025	<0.025	<0.025	<0.025	<20	90.5	90.5	<50	90.5	<20
CB-1A	4/19/2023	50	<0.025	<0.025	<0.025	<0.025	<0.025	<20	57.7	57.7	<20	57.7	<20
CB-1A	4/19/2023	55	<0.025	<0.025	<0.025	<0.025	<0.025	<20	26.7	26.7	<50	26.7	<20
CB-1A	4/19/2023	60	<0.025	<0.025	<0.025	<0.025	<0.025	<20	35.3	35.3	<50	35.3	<20
CB-1A	4/19/2023	65	<0.025	<0.025	<0.025	<0.025	<0.025	<20	26.6	26.6	<50	26.6	<20
CB-1A	4/19/2023	70	<0.025	<0.025	<0.025	<0.025	<0.025	<20	39.2	39.2	<50	39.2	<20
CB-1A	4/19/2023	75	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-2A	4/19/2023	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	240

	by OCD. II								Total Pe	troleum Hydroc	arbons (TPH)		= 4 uge 15 0j
	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Date	(ft bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						Table I Closu	re Criteria for	Soils >100 ft Dep	th to Groundwat	er 19.15.29 NMA	/C		
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
CB-2A	4/19/2023	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	82.7
CB-2A	4/19/2023	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	137
CB-2A	4/19/2023	25	<0.025	<0.025	<0.025	<0.025	<0.025	<20	29.2	29.2	<50	29.2	79.4
CB-2A	4/19/2023	30	<0.025	0.375	0.896	1.11	2.38	43.8	949	992.8	316	1308.8	61.9
CB-2A	4/19/2023	35	0.455	8.51	13.4	15.2	37.57	370	3710	4080	1120	5200	47.2
CB-2A	4/19/2023	40	0.9	14	19.5	22.5	56.9	588	5310	5898	<50	5898	45.9
CB-2A	4/19/2023	45	0.913	10.4	11.9	13.3	36.51	381	4230	4611	<50	4611	318
CB-2A	4/19/2023	50	10.6	47.9	38.5	39.3	136.3	766	6850	7616	<50	7616	4500
CB-1	11/15/2022	10	<0.025	0.0277	<0.025	<0.025	0.0277	<20	84	84	<50	84	242
CB-1	11/15/2022	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	107	107	<50	107	123
CB-1	11/15/2022	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	70.1
CB-1	11/15/2022	25	0.254	4.32	6.52	9.24	20.33	142	1660	1802	522	2324	95.7
CB-1	11/15/2022	30	2.78	27.4	28.2	40.2	98.58	527	6370	6897	2140	9037	40.8
CB-1	11/15/2022	35	2.78	24.4	25	37.9	90.08	632	4930	5562	1680	7242	<20
CB-1	11/15/2022	40	2.53	23.7	30.6	44.6	101.43	689	5650	6339	1780	8119	<20
CB-1	11/15/2022	45	1.25	12.5	12.1	14.7	40.55	244	2320	2564	775	3339	<20
CB-1	11/15/2022	50	0.959	8.11	7.56	9.19	25.819	173	1690	1863	538	2401	<20
CB-1	11/15/2022	55	0.49	5.47	5.79	7.25	19	131	1230	1361	419	1780	<20
CB-1	11/15/2022	60	0.352	5.08	5.97	7.49	18.892	130	1020	1150	353	1503	<20
CB-1	11/15/2022	65	<0.025	0.167	0.281	0.423	0.871	<20	187	187	72.4	259.4	<20
CB-1	11/15/2022	70	<0.025	0.0414	0.138	0.189	0.3684	<20	256	256	94.6	350.6	<20
CB-1	11/15/2022	75	<0.025	0.0258	0.0932	0.147	0.266	<20	288	288	119	407	<20
CB-2	11/15/2022	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	1,890
CB-2	11/15/2022	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	1,230
CB-2	11/15/2022	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	3,740
CB-2	11/15/2022	25	16	79.3	63.8	74.5	233.6	1200	8700	9900	2840	12740	739
CB-2	11/15/2022	30	2.65	26	31.9	42.3	102.85	710	5450	6160	1780	7940	1,120
CB-2	11/15/2022	35	5.21	37.1	36.9	47.1	126.31	801	5800	6601	1900	8501	1,520
CB-2	11/15/2022	40	4.12	24.8	19.7	24.2	72.82	423	3060	3483	1410	4893	6,280
CB-2	11/15/2022	45	15.9	61.3	52.9	63.1	193.2	1040	11300	12340	5050	17390	525
CB-2	11/15/2022	50	7.24	34.1	27.4	31.4	100.14	524	5280	5804	2790	8594	188
A1	1/6/2022	10	3.3	64	59	68	194.3	1200	3800	5000	1200	6200	86
A1	1/6/2022	15	5.2	68	56	61	190.2	1100	3700	4800	1100	5900	73
A1	1/6/2022	20	6.1	96	89	97	288.1	1800	6600	8400	2200	10600	79
A1	1/6/2022	25	14	99	68	67	248	1400	4500	5900	1600	7500	2000
A1	1/6/2022	30	2.9	68	61	64	195.9	1100	3900	5000	1400	6400	2000
A1	1/6/2022	35	5.5	82	66	70	223.5	1300	4800	6100	1700	7800	840
A1	1/6/2022	40	3.1	61	52	52	168.1	950	3200	4150	1200	5350	1100
A1	1/6/2022	45	52	170	95	93	410	2500	4300	6800	1400	8200	<60

			.54.07 1 1/1						Total Pe	troleum Hydroc	arbons (TPH)		uge 10 0
	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Date	(ft bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						Table I Closu	re Criteria for		oth to Groundwat				
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
A1	1/6/2022	75	0.22	4.1	8.3	11	23.62	200	1700	1900	620	2520	210
A2	1/6/2022	10	<0.12	<0.24	<0.24	<0.48	<0.48	<24	13	13	<43	13	18000
A2	1/6/2022	15	0.22	1.1	1.2	15	17.52	290	1900	2190	670	2860	4500
A2	1/6/2022	20	0.12	0.53	0.24	1.7	2.59	54	1300	1354	640	1994	8500
A2	1/6/2022	25	2.0	70	55	65	192	1200	3000	4200	980	5180	8900
A2	1/6/2022	30	2.2	71	62	74	209.2	1200	4100	5300	1400	6700	8500
A2	1/6/2022	35	2.4	39	40	43	124.4	940	3400	4340	1200	5540	9500
A2	1/6/2022	40	51	190	110	110	461	2600	8600	11200	3100	14300	12000
A2	1/6/2022	45	220	590	270	290	1370	6700	18000	24700	7300	32000	9600
A2	1/6/2022	50	1.0	20	21	25	67	540	1100	1640	600	2240	74
							Sample Result						
							tion Sample Re	esults					
1C2-10'	10/26/2020	10	20	110	74	72	276	1800	3800	5600	1800	7400	2800
1C2-15'	10/26/2020	15	30	210	150	140	530	2800	7000	9800	3300	13100	2300
1C2-20'	10/26/2020	20	9	89	63	100	261	2200	6500	8700	5900	14600	840
1C2-25'	10/26/2020	25	4.4	45	39	55	143.4	1100	8100	9200	4300	13500	3200
1C2-30'	10/26/2020	30	95	310	160	160	725	3900	7600	11500	3500	15000	2300
1C2-35'	10/26/2020	35	130	450	230	210	1020	5100	11000	16100	8000	24100	3100
1C2-40'	10/26/2020	40	64	260	160	160	644	3800	8000	11800	4700	16500	1500
1C2-45'	10/26/2020	45	8	48	36	36	128	790	1300	2090	650	2740	ND
1C2-50'	10/26/2020	50	7.8	52	33	40	132.8	1100	1600	2700	680	3380	ND
1C2-55'	10/26/2020	55	16	80	54	58	208	1800	3000	4800	1400	6200	ND
1C2-60'	10/26/2020	60	13	79	56	59	207	2100	2600	4700	1300	6000	61
1C2-65'	10/26/2020	65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1C2-70'	10/26/2020	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1C2-75'	10/26/2020	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2C2-10'	10/26/2020	10	1.1	15	8.2	23	47.3	600	5200	5800	2300	8100	350
2C2-15'	10/26/2020	15	0.99	22	14	27	63.99	650	4900	5550	2300	7850	110
2C2-20'	10/26/2020	20	0.62	12	7.4	24	44.02	700	5100	5800	2700	8500	1500
2C2-25'	10/26/2020	25	0.53	7.7	8.8	13	30.03	350	2600	2950	1600	4550	4400
2C2-30'	10/26/2020	30	18	140	92	94	344	2300	5500	7800	2700	10500	6400
2C2-35'	10/26/2020	35	0.74	13	13	14	40.74	310	960	1270	720	1990	13000
2C2-40'	10/26/2020	40	7.8	47 ND	35 ND	35 ND	124.8	820	2100	2920	1100	4020	15000
2C2-50'	10/26/2020	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-1C-10'	10/19/2019	10	32.5	165	101	108	406.5	1630	2610	4240	344	4584	224
1-1C-15'	10/19/2019	15	103	345	183	180	811	3320	5100	8420	657	9077	1540
1-1C-20'	10/19/2019	20	49.4	164	95.1	97.3	405.8	3060	5580	8640	887	9527	96
1-1C-25'	10/19/2019	25	55.7	159	88.8	91	394.5	1850	3330	5180	491	5671	12800
1-1C-30'	10/19/2019	30	90.1	258	141	143	632.1	1160	1270	2430	191	2621	704
1-1C-35'	10/19/2019	35	8.57	41.1	37.4	43.7	130.77	322	942	1264	106	1370	608
1-1C-40'	10/19/2019	40	32.6	142	86.5	105	366.1	3050	7340	10390	1140	11530	1440

	by OCD. 1								Total Pe	troleum Hydroc	arbons (TPH)		1 of age 17 o
	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Date	(ft bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
		, ,							oth to Groundwat				
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
1-1C-45'	10/19/2019	45	16.9	81.9	58	63.8	220.6	1480	3000	4480	355	4835	736
1-1C-50'	10/19/2019	50	38.5	131	81	83.5	334	2130	3810	5940	575	6515	5040
1-1C-55'	10/19/2019	55	3.77	16.6	13.4	14.7	48.47	146	743	889	107	996	416
1-1C-60'	10/19/2019	60	58.8	202	121	125	506.8	6260	11000	17260	1760	19020	32
1-1C-75'	10/19/2019	75	0.558	0.914	0.591	0.779	2.842	20.9	250	270.9	45	315.9	160
1-2C-10'	10/19/2019	10	114	327	168	159	768	6690	10100	16790	1610	18400	1780
1-2C-15'	10/19/2019	15	117	337	182	174	810	5080	8280	13360	1330	14690	1650
1-2C-20'	10/19/2019	20	33.1	150	98.5	103	384.6	2850	5510	8360	847	9207	208
1-2C-25'	10/19/2019	25	42.8	125	68.9	68.6	305.3	1160	1730	2890	213	3103	2800
1-2C-30'	10/19/2019	30	97.8	304	168	171	740.8	5710	8870	14580	1410	15990	624
1-2C-35'	10/19/2019	35	136	399	212	205	952	7910	11900	19810	1950	21760	224
1-2C-40'	10/19/2019	40	93.5	264	165	176	698.5	4350	7000	11350	1030	12380	256
1-2C-45'	10/19/2019	45	15.2	43.8	30.1	33.1	122.2	287	716	1003	107	1110	208
1-2C-50'	10/19/2019	50	112	307	188	197	804	5040	7980	13020	1220	14240	32
1-2C-55'	10/19/2019	55	66.4	203	132	150	551.4	2790	4870	7660	739	8399	32
1-2C-60'	10/19/2019	60	0.633	0.633	0.17	0.181	1.617	ND	ND	ND	ND	ND	16
1-2C-65'	10/19/2019	65	0.48	0.668	0.193	ND	1.47	ND	ND	ND	ND	ND	32
1-2C-70'	10/19/2019	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
1-2C-75'	10/19/2019	75	0.108	0.265	0.175	0.197	0.745	ND	ND	ND	ND	ND	32
2-1C-10'	10/19/2019	10	9.83	78.5	74.8	102	265.13	2350	5780	8130	834	8964	11600
2-1C-15'	10/19/2019	15	16.9	75.8	56.3	65.5	214.5	1790	3460	5250	511	5761	2280
2-1C-20'	10/19/2019	20	4.31	19	17	20.1	60.41	402	1720	2122	233	2355	10000
2-1C-25'	10/19/2019	25	10.1	44.7	36.1	41.2	132.1	546	1680	2226	201	2427	13200
2-1C-30'	10/19/2019	30	0.091	0.156	0.09	ND	0.337	ND	ND	ND	ND	ND	4880
2-1C-35'	10/19/2019	35	0.183	0.372	0.136	ND	0.793	ND	ND	ND	ND	ND	14600
2-1C-40'	10/19/2019	40	0.816	2.85	2.67	3.18	9.516	57.7	281	338.7	30.4	369.1	16400
2-1C-45'	10/19/2019	45	0.054	ND 0.000	ND	ND	0.054	ND	ND	ND	ND	ND	9760
2-1C-50'	10/19/2019	50	0.087	0.092	ND	ND 25.4	0.179	ND 690	ND 2070	ND 0700	ND	ND	64 45600
2-2C-10'	10/19/2019	10	1.16	15.4	20	25.1	61.66	_	2070	2760	222	2982	15600
2-2C-15'	10/19/2019	15	4.78	34.4	29.9	34.7	103.78	1090	4110	5200	603	5803	8560
2-2C-20'	10/19/2019	20	2.14	18.8	19.3	23.9	64.14	835	4000	4835	594	5429	9060
#1 Sidewalls	1/29/2019	0-6'	0.126	0.243	0.154	0.179	0.701	<10.0	20.1	20.1	<10.0	20.1	48
#2 Sidewalls	1/29/2019	0-6'	<0.050	0.085	0.073	<0.150	<0.300	<10.0	17.4	17.4	<10.0	17.4	176
					1		Sample Resul		1				
#1-1-20	6/25/2019	20	98.5	312	181	181	772.5	3630	8640	12270	1400	13670	9060
#1-1-25	6/25/2019	25	38.1	131	83.1	89.8	342	1690	6570	8260	1180	9440	6930
#1-1-35	6/25/2019	35	28.3	113	79	87.8	308.1	1780	6490	8270	1120	9390	6660
#1-1-40	6/25/2019	40	11.1	54.4	50.3	62.2	178	1320	7190	8510	1160	9670	2480
#1-2-55	6/25/2019	55	8.88	46.7	36.3	32.1	123.98	867	2130	2997	250	3247	16
#1-2-60	6/25/2019	60	87.8	348	267	226	928.8	5880	12000	17880	2100	19980	64
#1-2-65	6/25/2019	65	0.354	0.61	0.128	ND	1.092	ND	78.4	78.4	43.8	122.2	48

Commis ID	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Date	(ft bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						Table I Closu	re Criteria for	Soils >100 ft Dep	th to Groundwat	er 19.15.29 NMA	(C		
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
#1-3-40	6/25/2019	40	26.4	113	90.1	74.9	304.4	2140	5050	7190	757	7947	352
#1-3-50	6/25/2019	50	54.2	194	146	128	522.2	3290	6470	9760	1100	10860	48
#1-3-60	6/25/2019	60	0.109	0.129	ND	ND	0.238	10.8	19.1	29.9	24.5	54.4	16
#1-4-55	6/25/2019	55	0.313	0.51	0.182	0.167	1.172	ND	19.5	19.5	ND	19.5	32
#2-1-20	6/25/2019	20	4.93	22	16.1	18.1	61.13	419	1290	1709	218	1927	20000
#2-1-25	6/25/2019	25	46.8	220	145	158	569.8	4920	8860	13780	1390	15170	10600
#2-1-30	6/25/2019	30	ND	0.066	0.07	ND	0.136	ND	11.2	11.2	ND	11.2	24000
#2-1-35	6/25/2019	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13400
#2-2-30	6/26/2019	30	20.1	98.9	69.4	74.9	263.3	1920	4470	6390	683	7073	17400
#2-2-35	6/26/2019	35	ND	0.635	1.95	2.87	5.455	94.8	568	662.8	82.5	745.3	14400
#2-2-40	6/26/2019	40	0.268	1.47	2.44	3.23	7.408	46.6	310	356.6	54.3	410.9	18400
#2-3-30	6/26/2019	30	0.106	0.939	1.31	1.72	4.075	48.7	1060	1108.7	234	1342.7	7600
#2-3-35	6/26/2019	35	0.269	1.97	1.8	2.19	6.229	39.7	205	244.7	40.5	285.2	14800
#2-4-30	6/26/2019	30	1.33	12.2	13.4	17.1	44.03	397	2850	3247	469	3716	21600
#2-4-35	6/26/2019	35	ND	0.715	1.42	1.98	4.115	38.7	284	322.7	42	364.7	20600
#2-4-40	6/26/2019	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20000
#1-7'	1/29/2019	7'	92.7	440	277	293	1100	9720	15600	25320	2230	27550	160
	1/29/2019	9'	159	516	292	301	1270	7250	11900	19150	1790	20940	3280
-	1/29/2019	11'	154	424	226	229	1030	5310	8520	13830	1310	15140	8260
	1/29/2019	13'	94.4	347	210	216	867	4700	8200	12900	1200	14100	4720
	1/29/2019	15'	183	491	265	264	1200	6990	10900	17890	1660	19550	8000
l	1/29/2019	7'	53.9	228	139	146	567	4460	7860	12320	1170	13490	25600
l	1/29/2019	9'	44.1	185	119	125	473	3730	7300	11030	894	11924	24000
#2-11'	1/29/2019	11'	21.7	109	78	83.9	292	1810	3970	5780	554	6334	26400
#2-13'	1/29/2019	13'	21.8	101	72.1	77.6	273	1810	4300	6110	526	6636	26800
#2-15'	1/29/2019	15'	150	439	243	256	1090	8570	13000	21570	1930	23500	8800

- Values reported in mg/kg
   < = Value Less than Reporting Limit (RL)
- 3. Bold Indicates Analyte Detected
- 4. BTEX analyses by EPA Method SW 8021B. B-BH-2 Sample Point Excavated
- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
- 8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).
- 9. J the target analytes was positively identified below the quantitation limit and above the detection limit.



October 31, 2023

# Appendix A C-141 Forms

Responsible Party

Contact Name

Chase Settle

EOG Y Resources, Inc.

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

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

Incident ID	NAB1900435050
District RP	2RP-5149
Facility ID	
Application ID	pAB1900432112

#### **Release Notification**

#### **Responsible Party**

OGRID

Contact Telephone

575-748-4171

25575

Contact emai				Incident # (assigned by OCD)				
chase_settle(		ces.com						
Contact mail	ing address							
104 S. 4 <sup>th</sup>			-					
			Location	of Release S	Ouroa			
			Location	of Kelease S	ounce			
atitude 32.8	623428	450400000000000000000000000000000000000		Longitude	-103.9330673			
			(NAD 83 in dec	cimal degrees to 5 dec	imal places)			
Site Name Jac	ckson B #57		· · · · · · · · · · · · · · · · · · ·	Site Type	Facility			
Date Release	Discovered	12/1/18		API# 30-0.	15-41003	,		
Unit Letter	Section	Township	Range	Cou	nty			
L	1	17S	30E	Ede	dy			
☑ Crude Oil	Materia	l(s) Released (Select all Volume Released		calculations or specific	c justification for the volumes provided Volume Recovered (bbls) 2			
Produced	Water	Volume Released	l (bbls) 6		Volume Recovered (bbls) 5	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
			on of dissolved cl	ploride in the	☐ Yes ☐ No	, , , , , , , , , , , , , , , , , , , ,		
		produced water >		morrae in the	\[ \times \tag{\tag{1.62}} \tag{1.40}			
Condensa	te	Volume Released	l (bbls)		Volume Recovered (bbls)			
Natural G	as	Volume Released	l (Mcf)		Volume Recovered (Mcf)			
Other (des	scribe)	Volume/Weight 1	Released (provide	units)	Volume/Weight Recovered	(provide units)		
Cause of Rele								
					found it was coming from un	derground, most likely		
cased crossing	g. Shut off a	ll wells utilizing cr	ossing and isolate	ed flowlines.				



Incident ID	NAB1900435050	
District RP	2RP-5149	
Facility ID		
Application ID	pAB1900432112	

Was this a major	If YES, for what reason(s) do	es the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
,		
_		
If YES, was immediate no	otice given to the OCD? By wh	nom? To whom? When and by what means (phone, email, etc)?
	1	Initial Response
The responsible p	party must undertake the following acti	ions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.	
The impacted area has	s been secured to protect human	n health and the environment.
Released materials ha	ve been contained via the use c	of berms or dikes, absorbent pads, or other containment devices.
		removed and managed appropriately.
	l above have <u>not</u> been undertak	
ar an the actions accorded	t doo'te have <u>not</u> been undertak	on, explain why.
Per 10 15 20 8 R (4) NIM	AC the responsible party may (	commence remediation immediately after discovery of a release. If remediation
		If remedial efforts have been successfully completed or if the release occurred
		) NMAC), please attach all information needed for closure evaluation.
		mplete to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are r	equired to report and/or file certain tent. The acceptance of a C-141 re	n release notifications and perform corrective actions for releases which may endanger eport by the OCD does not relieve the operator of liability should their operations have
failed to adequately investiga	ate and remediate contamination th	at pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	a C-141 report does not relieve the	e operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Chase Settle		Safety & Environmental II
Signature:	14 le fon C	Date: <u>12/13/2018</u>
email: chase settle@eogre	esources.com	Telephone: <u>575-748-4171</u>
OCD Only		
Received by:	not remente	Date: 01/04/2019
Titologica by.	MANIAN CONTRACTOR	

Incident ID		
District RP	2RP-5149	
Facility ID		
Application ID		

Released to Imaging: 3/22/2024 8:59:38 AM

#### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	361 (ft bgs)						
Did this release impact groundwater or surface water?	☐ Yes ☑ No						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No						
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No						
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No						
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No						
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No						
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No						
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No						
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No						
Did the release impact areas not on an exploration, development, production, or storage site?	☑ Yes ☐ No						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.							
Characterization Report Checklist: Each of the following items must be included in the report.							
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data							

l		
		Data table of soil contaminant concentration data
		Depth to water determination
l		Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
l		
l		Photographs including date and GIS information
l	Ø	Topographic/Aerial maps
l	$\square$	Laboratory data including chain of custody

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

Incident ID	
District RP	2RP-5149
Facility ID	
Application ID	

Released to Imaging: 3/22/2024 8:59:38 AM

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

Printed Name: Chase Settle

Title: Rep Safety and Environmental II

Date: 02/27/2019

email: Chase\_Settle@eogresources.com

Telephone: 575-748-1471

OCD Only

Received by: Robert Hamlet

Date: 3/1/2019

Incident ID	
District RP	2RP-5149
Facility ID	
Application ID	

Released to Imaging: 3/22/2024 8:59:38 AM

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.
Detailed description of proposed remediation technique  Scaled sitemap with GPS coordinates showing delineation points  Estimated volume of material to be remediated  Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC  Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Deferred Paguasts Only: Each of the following items would be a fine for the following items where the fine for the following items would be a fine for the following items where the fine for the following items where the fine for the following items were a fine for the following items where the fine for the following items where the fine for the following items where the following items were the fine for the following items where the fine for the following items where the fine for the following items where the fine for the fine for the following items where the fine for the following items where the fine for the fine fo
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  Printed Name: Chase Settle  Title: Rep Safety and Environmental II  Signature: Date: 02/27/2019  Email: Chase_Settle@eogresources.com  Telephone: 575-748-1471
OCD Only
Received by: Robert Hamlet Date: 3/1/2019
Approved
Signature: Date: 3/1/2019

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Incident ID	NAB1900435050
District RP	
Facility ID	
Application ID	

#### Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC					
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office				
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)				
Description of remediation activities					
Therefore a different description in the second description in the sec	to to the heat of mention and an in the last of mention and an inches				
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in				
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr				
Signature: Chase Settle					
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471				
OCD Only					
Received by:	Date:				
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.				
Closure Approved by:	Date:				
Printed Name:	Title:				



October 31, 2023

# **Appendix B**Analytical Reports

Report to:

Moshghan Mansoori







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





# envirotech

Practical Solutions for a Better Tomorrow

### **Analytical Report**

**GHD** 

Project Name: 12566090/ Jackson B #57

Work Order: E309215

Job Number: 19034-0001

Received: 9/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/29/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/29/23

Moshghan Mansoori 6121 Indian School Rd. NE #200 Albuquerque, NM 87110

Project Name: 12566090/ Jackson B #57

Date Received: 9/28/2023 8:15:00AM

Moshghan Mansoori,

Workorder: E309215

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/28/2023 8:15:00AM, under the Project Name: 12566090/ Jackson B #57.

The analytical test results summarized in this report with the Project Name: 12566090/ Jackson B #57 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

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labadmin@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

GHD	Project Name:	Project Name: 12566090/ Jackson B #57		
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	09/29/23 15:51	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CB-1B (10ft)	E309215-01A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (15ft)	E309215-02A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (20ft)	E309215-03A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (25ft)	E309215-04A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (30ft)	E309215-05A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (35ft)	E309215-06A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (40ft)	E309215-07A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (45ft)	E309215-08A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (50ft)	E309215-09A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (55ft)	E309215-10A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (60ft)	E309215-11A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (65ft)	E309215-12A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (70ft)	E309215-13A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (75ft)	E309215-14A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (10ft)	E309215-15A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (15ft)	E309215-16A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (20ft)	E309215-17A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (25ft)	E309215-18A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (30ft)	E309215-19A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (35ft)	E309215-20A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (40ft)	E309215-21A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (45ft)	E309215-22A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (50ft)	E309215-23A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (10ft) E309215-01

1507210 VI						
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
mg/kg	mg/kg	Analy	yst: IY		Batch: 2339052	
ND	0.0250	1	09/28/23	09/29/23		
ND	0.0250	1	09/28/23	09/29/23		
ND	0.0250	1	09/28/23	09/29/23		
ND	0.0250	1	09/28/23	09/29/23		
ND	0.0500	1	09/28/23	09/29/23		
ND	0.0250	1	09/28/23	09/29/23		
	97.0 %	70-130	09/28/23	09/29/23		
mg/kg	mg/kg	Analy	yst: IY		Batch: 2339052	
ND	20.0	1	09/28/23	09/29/23		
	87.3 %	70-130	09/28/23	09/29/23		
mg/kg	mg/kg	Analy	yst: KM		Batch: 2339061	
ND	25.0	1	09/28/23	09/28/23		
ND	50.0	1	09/28/23	09/28/23		
	86.9 %	50-200	09/28/23	09/28/23		
mg/kg	mg/kg	Analy	yst: RAS		Batch: 2339081	
ND	20.0	1	09/28/23	09/28/23		
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           MD         20.0           87.3 %         mg/kg           MD         25.0           ND         50.0           86.9 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           97.0 %         70-130           mg/kg         mg/kg         Analy           ND         20.0         1           87.3 %         70-130         1           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           86.9 %         50-200           mg/kg         mg/kg         Analy	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         09/28/23           ND         0.0250         1         09/28/23           ND         0.0250         1         09/28/23           ND         0.0500         1         09/28/23           ND         0.0250         1         09/28/23           ND         0.0250         1         09/28/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         09/28/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         09/28/23           ND         25.0         1         09/28/23           ND         50.0         1         09/28/23           ND         50.0         1         09/28/23           Mg/kg         Mg/kg         Analyst: RAS	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         09/28/23         09/29/23           ND         0.0250         1         09/28/23         09/29/23           ND         0.0250         1         09/28/23         09/29/23           ND         0.0500         1         09/28/23         09/29/23           ND         0.0250         1         09/28/23         09/29/23           ND         0.0250         1         09/28/23         09/29/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         09/28/23         09/29/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         09/28/23         09/28/23           ND         25.0         1         09/28/23         09/28/23           ND         50.0         1         09/28/23         09/28/23           ND         50.0         1         09/28/23         09/28/23           ND         50.0         1         09/28/23         09/28/23           8	



Chloride

### **Sample Data**

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### **CB-1B** (15ft)

	D				
	Reporting				
Result	Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	A	nalyst: IY		Batch: 2339052
ND	0.0250	1	09/28/23	09/29/23	
ND	0.0250	1	09/28/23	09/29/23	
ND	0.0250	1	09/28/23	09/29/23	
ND	0.0250	1	09/28/23	09/29/23	
ND	0.0500	1	09/28/23	09/29/23	
ND	0.0250	1	09/28/23	09/29/23	
	95.8 %	70-130	09/28/23	09/29/23	
mg/kg	mg/kg		Analyst: IY		Batch: 2339052
ND	20.0	1	09/28/23	09/29/23	
	86.7 %	70-130	09/28/23	09/29/23	
mg/kg	mg/kg	A	Analyst: KM		Batch: 2339061
ND	25.0	1	09/28/23	09/28/23	
ND	50.0	1	09/28/23	09/28/23	
	86.7 %	50-200	09/28/23	09/28/23	
mg/kg	mg/kg	A	nalyst: RAS		Batch: 2339081
	ND Mg/kg ND	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           95.8 %         mg/kg           MB/kg         mg/kg           ND         20.0           86.7 %         mg/kg           ND         25.0           ND         50.0           86.7 %	mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           mg/kg         mg/kg         A           ND         20.0         1           86.7 %         70-130         A           mg/kg         mg/kg         A           ND         25.0         1           ND         50.0         1           86.7 %         50-200	mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         09/28/23           ND         0.0250         1         09/28/23           ND         0.0250         1         09/28/23           ND         0.0250         1         09/28/23           ND         0.0500         1         09/28/23           ND         0.0250         1         09/28/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         09/28/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         09/28/23           ND         50.0         1         09/28/23           86.7 %         50-200         09/28/23	mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         09/28/23         09/29/23           ND         0.0500         1         09/28/23         09/29/23           ND         0.0250         1         09/28/23         09/29/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         09/28/23         09/29/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         09/28/23         09/28/23           ND         50.0         1         09/28/23         09/28/23           ND         50.0         1         09/28/23         09/28/23

20.0

45.4

09/28/23

1

09/28/23



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (20ft)

		E309215-03				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	nalyst: IY		Batch: 2339052
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	nalyst: IY		Batch: 2339052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2339061
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane		85.9 %	50-200	09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	nalyst: RAS		Batch: 2339081
Chloride	54.5	20.0	1	09/28/23	09/29/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (25ft)

		E309215-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
o,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2339052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2339061
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane		82.9 %	50-200	09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2339081
Chloride	ND	20.0	1	09/28/23	09/29/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (30ft)

		E309215-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2339052
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2339052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.5 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2339061
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane		87.8 %	50-200	09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2339081
Chloride	22.4	20.0	1	09/28/23	09/29/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (35ft)

E309215-06							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/28/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/28/23		
Toluene	ND	0.0250	1	09/28/23	09/28/23		
o-Xylene	ND	0.0250	1	09/28/23	09/28/23		
o,m-Xylene	ND	0.0500	1	09/28/23	09/28/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/28/23		
Surrogate: 4-Bromochlorobenzene-PID		94.7 %	70-130	09/28/23	09/28/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/28/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.6 %	70-130	09/28/23	09/28/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23		
Surrogate: n-Nonane		88.4 %	50-200	09/28/23	09/28/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23		



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (40ft)

		E309215-07					
Reporting							
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23		
Toluene	ND	0.0250	1	09/28/23	09/29/23		
o-Xylene	ND	0.0250	1	09/28/23	09/29/23		
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23		
Surrogate: 4-Bromochlorobenzene-PID		95.7 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23		
Surrogate: n-Nonane		93.2 %	50-200	09/28/23	09/28/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23		



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (45ft)

		E309215-08					
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23		
Toluene	ND	0.0250	1	09/28/23	09/29/23		
o-Xylene	ND	0.0250	1	09/28/23	09/29/23		
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23		
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23		
Surrogate: n-Nonane		92.2 %	50-200	09/28/23	09/28/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23		



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

### CB-1B (50ft)

		E309215-09					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23		
Toluene	ND	0.0250	1	09/28/23	09/29/23		
o-Xylene	ND	0.0250	1	09/28/23	09/29/23		
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23		
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23		
Surrogate: n-Nonane		89.8 %	50-200	09/28/23	09/28/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23		



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

### CB-1B (55ft)

		E309215-10					
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23		
Toluene	ND	0.0250	1	09/28/23	09/29/23		
o-Xylene	ND	0.0250	1	09/28/23	09/29/23		
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23		
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23		
Surrogate: n-Nonane		88.3 %	50-200	09/28/23	09/29/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23		



Nonhalogenated Organics by EPA 8015D - DRO/ORO

Diesel Range Organics (C10-C28)

Oil Range Organics (C28-C36)

Anions by EPA 300.0/9056A

Surrogate: n-Nonane

Chloride

Batch: 2339061

Batch: 2339081

#### Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (60ft) E309215-11

#### Reporting Analyte Limit Dilution Analyzed Notes Result Prepared Analyst: IY Batch: 2339052 mg/kg mg/kg Volatile Organics by EPA 8021B 09/28/23 09/29/23 ND 0.0250 Benzene 1 09/28/23 09/29/23 Ethylbenzene ND 0.0250ND 0.025009/28/23 09/29/23 Toluene 1 09/28/23 09/29/23 o-Xylene ND 0.02501 09/28/23 09/29/23 ND 0.0500 p,m-Xylene 09/28/23 09/29/23 1 Total Xylenes ND 0.025009/28/23 09/29/23 96.3 % 70-130 Surrogate: 4-Bromochlorobenzene-PID mg/kg Analyst: IY Batch: 2339052 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 09/29/23 ND 20.0 1 09/28/23 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 86.8 % 09/28/23 09/29/23 70-130

mg/kg

25.0

50.0

mg/kg

20.0

88.6 %

Analyst: KM

Analyst: RAS

1

1

50-200

09/28/23

09/28/23

09/28/23

09/28/23

09/29/23

09/29/23

09/29/23

09/29/23

mg/kg

ND

ND

mg/kg

ND



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (65ft)

		E309215-12						
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2339052		
Benzene	ND	0.0250	1	09/28/23	09/29/23			
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23			
Toluene	ND	0.0250	1	09/28/23	09/29/23			
o-Xylene	ND	0.0250	1	09/28/23	09/29/23			
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23			
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23			
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	09/28/23	09/29/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2339052		
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.2 %	70-130	09/28/23	09/29/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2339061		
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23			
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23			
Surrogate: n-Nonane		86.0 %	50-200	09/28/23	09/29/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2339081		
Chloride	ND	20.0	1	09/28/23	09/29/23			



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (70ft)

		E309215-13					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23		
Toluene	ND	0.0250	1	09/28/23	09/29/23		
o-Xylene	ND	0.0250	1	09/28/23	09/29/23		
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23		
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23		
Surrogate: n-Nonane		87.5 %	50-200	09/28/23	09/29/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23		



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-1B (75ft)

E309215-14							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23		
Toluene	ND	0.0250	1	09/28/23	09/29/23		
o-Xylene	ND	0.0250	1	09/28/23	09/29/23		
o,m-Xylene	ND	0.0500	1	09/28/23	09/29/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23		
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	286	25.0	1	09/28/23	09/29/23		
Oil Range Organics (C28-C36)	352	50.0	1	09/28/23	09/29/23		
Surrogate: n-Nonane		87.7 %	50-200	09/28/23	09/29/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23		



Chloride

## **Sample Data**

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### **CB-2B** (10ft)

E309215-15							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23		
Toluene	ND	0.0250	1	09/28/23	09/29/23		
o-Xylene	ND	0.0250	1	09/28/23	09/29/23		
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23		
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23		
Surrogate: n-Nonane		90.0 %	50-200	09/28/23	09/29/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2339081	

20.0

197

09/28/23

09/29/23



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-2B (15ft)

E309215-16							
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23		
Toluene	ND	0.0250	1	09/28/23	09/29/23		
p-Xylene	ND	0.0250	1	09/28/23	09/29/23		
o,m-Xylene	ND	0.0500	1	09/28/23	09/29/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23		
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23		
Surrogate: n-Nonane		90.1 %	50-200	09/28/23	09/29/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: RAS		Batch: 2339081	
Chloride	91.7	20.0	1	09/28/23	09/29/23		



Chloride

### **Sample Data**

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### **CB-2B (20ft)**

E309215-17							
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23		
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23		
Toluene	ND	0.0250	1	09/28/23	09/29/23		
o-Xylene	ND	0.0250	1	09/28/23	09/29/23		
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23		
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23		
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.8 %	70-130	09/28/23	09/29/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23		
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23		
Surrogate: n-Nonane		89.5 %	50-200	09/28/23	09/29/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2339081	

20.0

43.0

09/28/23

09/29/23



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-2B (25ft)

		E309215-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID		96.6 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.1 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2339061
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
Surrogate: n-Nonane		91.6%	50-200	09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2339081
Chloride	598	20.0	1	09/28/23	09/29/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

### CB-2B (30ft)

		E309215-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2339052
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2339061
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
Surrogate: n-Nonane		85.5 %	50-200	09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2339081
Chloride	5070	40.0	2	09/28/23	09/29/23	



### **Sample Data**

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-2B (35ft)

		E309215-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: IY		Batch: 2339052
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	1.04	0.0250	1	09/28/23	09/29/23	
Toluene	0.422	0.0250	1	09/28/23	09/29/23	
o-Xylene	0.475	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	0.962	0.0500	1	09/28/23	09/29/23	
Total Xylenes	1.44	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2339052
Gasoline Range Organics (C6-C10)	24.5	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2339061
Diesel Range Organics (C10-C28)	298	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	89.6	50.0	1	09/28/23	09/29/23	
Surrogate: n-Nonane		89.8 %	50-200	09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: RAS		Batch: 2339081
Chloride	5500	40.0	2	09/28/23	09/29/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### **CB-2B (40ft)**

		E309215-21					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Kesuit	Lillit			•	Allalyzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: Rl	KS		Batch: 2339055
Benzene	0.0450	0.0250		1	09/28/23	09/29/23	
Ethylbenzene	1.85	0.0250		1	09/28/23	09/29/23	
Toluene	1.11	0.0250		1	09/28/23	09/29/23	
o-Xylene	0.771	0.0250		1	09/28/23	09/29/23	
p,m-Xylene	1.56	0.0500		1	09/28/23	09/29/23	
Total Xylenes	2.33	0.0250		1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		107 %	70-130		09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		09/28/23	09/29/23	
Surrogate: Toluene-d8		102 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2339055
Gasoline Range Organics (C6-C10)	67.9	20.0		1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		107 %	70-130		09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		09/28/23	09/29/23	
Surrogate: Toluene-d8		102 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	М		Batch: 2339060
Diesel Range Organics (C10-C28)	215	25.0		1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	60.3	50.0		1	09/28/23	09/28/23	
Surrogate: n-Nonane		86.3 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: R	AS		Batch: 2339068
				_			

100

7300

09/28/23

09/29/23



Chloride

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

#### CB-2B (45ft)

		E309215-22				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2339055
Benzene	0.0765	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	0.0350	0.0250	1	09/28/23	09/29/23	
Toluene	0.0905	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	09/28/23	09/29/23	
Surrogate: Toluene-d8		100 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2339055
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	09/28/23	09/29/23	
Surrogate: Toluene-d8		100 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2339060
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane	·	89.9 %	50-200	09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2339068
Chloride	9260	400	20	09/28/23	09/29/23	



 GHD
 Project Name:
 12566090/ Jackson B #57

 6121 Indian School Rd. NE #200
 Project Number:
 19034-0001
 Reported:

 Albuquerque NM, 87110
 Project Manager:
 Moshghan Mansoori
 9/29/2023
 3:51:35PM

#### CB-2B (50ft)

		E309215-23					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg mg/kg Analyst: RKS			Batch: 2339055		
Benzene	0.145	0.0250	1	I	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	l	09/28/23	09/29/23	
Toluene	0.0995	0.0250	1	l	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	l	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	l	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	l	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		109 %	70-130		09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		09/28/23	09/29/23	
Surrogate: Toluene-d8		101 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: R	KS		Batch: 2339055
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		109 %	70-130		09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130		09/28/23	09/29/23	
Surrogate: Toluene-d8		101 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	M		Batch: 2339060
Diesel Range Organics (C10-C28)	ND	25.0	1		09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	[	09/28/23	09/28/23	
Surrogate: n-Nonane		90.7 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: R	AS		Batch: 2339068

20.0

1

09/28/23

09/29/23

1380



Chloride

GHD Project Name: 12566090/ Jackson B #57 Reported:
6121 Indian School Rd. NE #200 Project Number: 19034-0001
Albuquerque NM, 87110 Project Manager: Moshghan Mansoori 9/29/2023 3:51:35PM

Albuquerque NM, 87110		Project Manage	r: M	oshghan Man	soori			9/29	9/2023 3:51:35PN
	V	olatile Organ	ic Compo	unds by EI	PA 8260I	3		Α	nalyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2339055-BLK1)							Prepared: 09	9/28/23 Analy	vzed: 09/28/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			
LCS (2339055-BS1)							Prepared: 09	9/28/23 Analy	zed: 09/28/23
Benzene	2.27	0.0250	2.50		90.7	70-130			
Ethylbenzene	2.35	0.0250	2.50		93.8	70-130			
Toluene	2.24	0.0250	2.50		89.6	70-130			
o-Xylene	2.26	0.0250	2.50		90.4	70-130			
p,m-Xylene	4.49	0.0500	5.00		89.8	70-130			
Total Xylenes	6.75	0.0250	7.50		90.0	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Matrix Spike (2339055-MS1)				Source:	E309212-0	02	Prepared: 09	9/28/23 Analy	zed: 09/28/23
Benzene	2.33	0.0250	2.50	ND	93.4	48-131			
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135			
Toluene	2.29	0.0250	2.50	ND	91.6	48-130			
o-Xylene	2.41	0.0250	2.50	ND	96.5	43-135			
p,m-Xylene	4.73	0.0500	5.00	ND	94.7	43-135			
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135			
Surrogate: Bromofluorobenzene	0.526		0.500	·	105	70-130			·
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			
Matrix Spike Dup (2339055-MSD1)				Source:	E309212-0	02	Prepared: 09	9/28/23 Analy	zed: 09/29/23
Benzene	2.34	0.0250	2.50	ND	93.4	48-131	0.0856	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	5.36	27	
Toluene	2.42	0.0250	2.50	ND	97.0	48-130	5.64	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	8.76	27	
p,m-Xylene	5.21	0.0500	5.00	ND	104	43-135	9.56	27	
Total Xylenes	7.84	0.0250	7.50	ND	105	43-135	9.29	27	
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
			0.500		102	<b>50 130</b>			



0.500

102

70-130

0.509

Surrogate: Toluene-d8

12566090/ Jackson B #57 **GHD** Project Name: Reported: 6121 Indian School Rd. NE #200 Project Number: 19034-0001 Albuquerque NM, 87110 Project Manager: Moshghan Mansoori 9/29/2023 3:51:35PM **Volatile Organics by EPA 8021B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2339052-BLK1) Prepared: 09/28/23 Analyzed: 09/28/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.68 8.00 96.0 70-130 LCS (2339052-BS1) Prepared: 09/28/23 Analyzed: 09/28/23 4.03 80.5 70-130 5.00 Benzene 0.0250 Ethylbenzene 3.98 0.0250 5.00 79.6 70-130 4.11 0.0250 5.00 82.2 70-130 Toluene 82.9 o-Xylene 4.15 0.0250 5.00 70-130 8.27 10.0 82.7 70-130 0.0500 p.m-Xvlene 82.7 12.4 15.0 70-130 Total Xylenes 0.0250 8.00 96.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.71 Matrix Spike (2339052-MS1) Source: E309215-06 Prepared: 09/28/23 Analyzed: 09/28/23 4.34 0.0250 5.00 ND 54-133 Benzene ND 85.8 61-133 Ethylbenzene 4.29 0.0250 5.00 Toluene 4.43 0.0250 5.00 ND 88.5 61-130 4.45 ND 63-131 5.00 89.0 0.0250 o-Xylene p,m-Xylene 8.90 0.0500 10.0 ND 89.0 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.65 8.00

Source: E309215-06

89.4

88.6

91.1

91.7

91.7

91.7

95.3

54-133

61-133

61-130

63-131

63-131

63-131

70-130

2.88

3.16

2.87

2.96

3.09

3.04

ND

ND

ND

ND

ND

ND



Prepared: 09/28/23 Analyzed: 09/29/23

20

20

20

20

20

20

Matrix Spike Dup (2339052-MSD1)

Surrogate: 4-Bromochlorobenzene-PID

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

4.47

4.43

4 56

4.59

9.17

13.8

7.63

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

5.00

10.0

15.0

8.00

Surrogate: 1-Chloro-4-fluorobenzene-FID

#### **QC Summary Data**

 GHD
 Project Name:
 12566090/ Jackson B #57
 Reported:

 6121 Indian School Rd. NE #200
 Project Number:
 19034-0001

 Albuquerque NM, 87110
 Project Manager:
 Moshghan Mansoori
 9/29/2023 3:51:35PM

Albuquerque NM, 87110		Project Manage	r: M	oshghan Man	isoori			9/2	9/2023 3:51:35PM		
	Non	halogenated	Organics	by EPA 80	15D - G	RO		Analyst: IY			
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes		
Blank (2339052-BLK1)							Prepared: 0	9/28/23 Anal	yzed: 09/28/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.95		8.00		86.9	70-130					
LCS (2339052-BS2)							Prepared: 0	9/28/23 Anal	yzed: 09/28/23		
Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.5	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130					
Matrix Spike (2339052-MS2)				Source:	E309215-	06	Prepared: 0	9/28/23 Anal	yzed: 09/29/23		
Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.3	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.3	70-130					
Matrix Spike Dup (2339052-MSD2)				Source:	E309215-	06	Prepared: 0	9/28/23 Anal	yzed: 09/29/23		
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.3	70-130	2.35	20			

8.00

6.93

86.6

70-130

 GHD
 Project Name:
 12566090/ Jackson B #57
 Reported:

 6121 Indian School Rd. NE #200
 Project Number:
 19034-0001

 Albuquerque NM, 87110
 Project Manager:
 Moshghan Mansoori
 9/29/2023
 3:51:35PM

Albuquerque NM, 87110		Project Manager	. 171	oshghan Mans	50011			<i>3,2,</i>	9/2023 3:51:351
	Non	halogenated (		A	nalyst: RKS				
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2339055-BLK1)							Prepared: 0	9/28/23 Analy	zed: 09/28/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Gurrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			
LCS (2339055-BS2)							Prepared: 0	9/28/23 Analy	zed: 09/28/23
Gasoline Range Organics (C6-C10)	53.1	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
Matrix Spike (2339055-MS2)				Source:	E309212-0	02	Prepared: 0	9/28/23 Analy	zed: 09/29/23
Gasoline Range Organics (C6-C10)	55.4	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.537		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

			Source:	E309212-	02	Prepared: 09/28/23 Analyzed: 09/29					
52.3	20.0	50.0	ND	105	70-130	5.69	20				
0.523		0.500		105	70-130						
0.473		0.500		94.5	70-130						
0.507		0.500		101	70-130						
	0.523 0.473	0.523 0.473	0.523     0.500       0.473     0.500	52.3         20.0         50.0         ND           0.523         0.500           0.473         0.500	52.3         20.0         50.0         ND         105           0.523         0.500         105           0.473         0.500         94.5	0.523     0.500     105     70-130       0.473     0.500     94.5     70-130	52.3         20.0         50.0         ND         105         70-130         5.69           0.523         0.500         105         70-130           0.473         0.500         94.5         70-130				



 GHD
 Project Name:
 12566090/ Jackson B #57
 Reported:

 6121 Indian School Rd. NE #200
 Project Number:
 19034-0001

 Albuquerque NM, 87110
 Project Manager:
 Moshghan Mansoori
 9/29/2023
 3:51:35PM

Albuquerque NM, 8/110		Project Manager	r: M	osngnan Man	soori				9/29/2023 3:31:33PN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	ORO/			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2339060-BLK1)							Prepared: 0	9/28/23	Analyzed: 09/28/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.6	50-200			
LCS (2339060-BS1)							Prepared: 0	9/28/23	Analyzed: 09/28/23
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
urrogate: n-Nonane	49.4		50.0		98.9	50-200			
Matrix Spike (2339060-MS1)				Source:	E309204-0	02	Prepared: 0	9/28/23	Analyzed: 09/28/23
Diesel Range Organics (C10-C28)	302	25.0	250	ND	121	38-132			
Surrogate: n-Nonane	45.4		50.0		90.7	50-200			
Matrix Spike Dup (2339060-MSD1)				Source:	E309204-0	02	Prepared: 0	9/28/23	Analyzed: 09/28/23
Diesel Range Organics (C10-C28)	299	25.0	250	ND	120	38-132	0.921	20	
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			



 GHD
 Project Name:
 12566090/ Jackson B #57
 Reported:

 6121 Indian School Rd. NE #200
 Project Number:
 19034-0001

 Albuquerque NM, 87110
 Project Manager:
 Moshghan Mansoori
 9/29/2023
 3:51:35PM

Albuquerque NM, 8/110		Project Manager	r: Mo	oshghan Man	soori				9/29/2023 3:51:35PN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2339061-BLK1)							Prepared: 0	9/28/23	Analyzed: 09/28/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.0	50-200			
LCS (2339061-BS1)							Prepared: 0	9/28/23	Analyzed: 09/28/23
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
urrogate: n-Nonane	51.2		50.0		102	50-200			
Matrix Spike (2339061-MS1)				Source:	E309215-0	06	Prepared: 0	9/28/23	Analyzed: 09/28/23
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	51.8		50.0		104	50-200			
Matrix Spike Dup (2339061-MSD1)				Source:	E309215-0	06	Prepared: 0	9/28/23	Analyzed: 09/28/23
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	9.57	20	
Gurrogate: n-Nonane	49.1		50.0		98.1	50-200			

GHD 6121 Indian School Rd. NE #200	Project Name: Project Number:	12566090/ Jackson B #57 19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

Albuquerque NM, 87110	Project Manager: Moshghan Mansoori								/29/2023 3:51:35PM
		Anions		Analyst: RAS					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	N.
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2339068-BLK1)							Prepared: 0	9/28/23 An	alyzed: 09/28/23
Chloride	ND	20.0							
LCS (2339068-BS1)							Prepared: 0	9/28/23 An	alyzed: 09/28/23
Chloride	244	20.0	250		97.6	90-110			
Matrix Spike (2339068-MS1)				Source:	E309205-	01	Prepared: 0	9/28/23 An	alyzed: 09/28/23
Chloride	25600	400	250	22600	NR	80-120			M5
Matrix Spike Dup (2339068-MSD1)				Source:	E309205-	01	Prepared: 0	9/28/23 An	alyzed: 09/28/23
Chloride	28000	400	250	22600	NR	80-120	9.05	20	M5



Matrix Spike Dup (2339081-MSD1)

Chloride

#### **QC Summary Data**

GHD 6121 Indian School Rd. NE #200 Albuquerque NM, 87110		Project Name: Project Number: Project Manager	1	2566090/ Jack 9034-0001 Ioshghan Man				9	<b>Reported:</b> 9/29/2023 3:51:35PM
		Anions	by EPA	300.0/9056	1				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2339081-BLK1)							Prepared: 0	9/28/23 An	nalyzed: 09/28/23
Chloride	ND	20.0							
LCS (2339081-BS1)							Prepared: 0	9/28/23 An	nalyzed: 09/28/23
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2339081-MS1)				Source:	E309215-	01	Prepared: 0	9/28/23 An	nalyzed: 09/28/23
Chloride	264	20.0	250	ND	106	80-120			

250

20.0

Source: E309215-01

108

80-120

1.84

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 09/28/23 Analyzed: 09/28/23

20

#### **Definitions and Notes**

ſ	GHD	Project Name:	12566090/ Jackson B #57	
l	6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
l	Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	09/29/23 15:51

M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The

accociated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



nt: GHD Bill To		A TOTAL OF		Lah	Use O	nly		-		т	TAT		EPA P	rogran
ect: 12566090/Jackson B #57 Attention: EOG Amber Griffin		Lab	WO#		Job	Num	ber		1D 2			ndard	CWA	SDV
ect Manager: Moshgahan Mansoori/JT Murrey  Address: 1045 4th st,		E.3	3092	215		034			2	C		X		W
ress: 6121 Indian School Rd, NE, st.200 City, State, Zip:Artesia, NM 88210 State, Zip: Albuquerque, NM, 87110 Phone:		$\vdash$			Ana	lysis a	nd Me	thod						RCI
ne: (425)-563-6516	s.com	5	S										State	
il: Moshghan.Mansoori@ghd.com	777	y 801	y 801	되 .		0.0	_	_			N	IM CO	UT AZ	TX
ort due by:		RO b	RO b	y 802	6010	le 300	NN-0	705- T		ŀ				
pled Date Sampled Matrix No. of Containers Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260 Metals 6010	Chloride 300.0	BGDOC.	TCEQ 1005- TX					Remarks	É
2 4/27/23 5 1 5-125 87914-270923-5K-TB-1BC1099	1	χ	太	)	(	×								
13 9/27/23 9 ( 5-125 87914-270923-52-(B-1B(154+)	2	×	×	X	٠	χ								
14 1/27/20 5 1 5-1258791X-270923-516-CB1B(204+)	3	x	×	1	X	X								
05 9/27/20 5 , 5-12587417-271929-5K-CD-18C254	4	×	X	X		X								
06 9/27/27 5 1 5-12587917-270923-52CB-1B(80ft)	5	X	*	y	6	K								
77 9/27/27 9 ( S-1258791X-270923-5K-CB-1BC75A	16	x	y	)	C.	×						HICON.		
08 9/27/27 } 1 5-1284791x-270923-5K-CB-10 (4014	,7	k	×	×		K								
09 7/27/23 8 1 5-12587917-270928-516-60-113(454	8	X	X	7	×	Å								
10 9/27/20 5 ( 5-12587919-270923-5K-(B-2B(50P4)	1	k	X	Y	ie l	X								
11 9/27/27 \$ 1 St12587012-270973-51c-(B-18(55A)	10	X	×	×		x								
itional Instructions: please email results to: amber_griffin@eogresources.com, chase_set	tle@eogre	esourc	:es.con	n; jt.r	nurre	/@gh	d.con	า						H
d sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the prime of collection is considered fraud and may be grounds for legal action.  Sampled by:	he sample loc	ation,			19 100							ice the day th	ney are sample	ed or re
quished by: (Signature)  Date  1/27/17  Time 1500  Received by: (Signature)  Willle Complex	Date G27	27	Time 6	15	Re	ceived	d on ic	e:	Lab	Use Or	nly			
quished by: (Signature)  Date  G-27-23   Time   Received by: (Signature)   Time   Received by: (Signature)	Date 912712	3	Time 17:0	50	T1			(	T2		T	3		
puished by: (Signature)  Date  127123  Date  128:US  Received by: (Signature)  128:US  Received by: (Signature)	9.18.	23	Time 8:15	5	AV	G Ten	np °C	4						



Client:		GHD				Bill To			(C. 1884)	La	b Us	e Onl	٧				TAT		EPA Pr	ogram
- Transfer 17-	12566090/Ja	ckson B#	<del>1</del> 57		Atter	ntion: EOG Amber Griffin		Lab	WO#			loh N	lumbe	er	, 1D	2D	3D :	Standard	CWA	SDWA
	Manager: M				Addr	ess: 1045 4th st,		E 2	W0#	121	5	190	34.	000	1	×		7		
	6121 Indi				MANAGE TO THE REAL PROPERTY.	State, Zip:Artesia, NM 88210						Analys	is and	l Metl	nod					RCRA
	e, Zip: Albuq			.0	Phon	***************************************							- 1							
<u>Phone:</u> Email:	(425)- Moshghan.	563-6516	TATALON BALLONS		Emai	il: amber griffin@eogresource	s.com	015	8015									NIMAL CO	State UT AZ	TVI
Report d		IVIATISOOI	iwgiiu.cc	)III				DRO/ORO by 8015	by 8	021	760	10	300.0	-	4			INIVI CO	UT AZ	1^
Time	To be well	7577 01	No. of	25 12 12 12 12 12 12 12 12 12 12 12 12 12			Lab	/ORC	GRO/DRO by	by 8	VOC by 8260	Metals 6010	ride	- 50	ICEQ 1005-					
Sampled	Date Sampled	Matrix	Containers	Sample ID			Number	DRO,	GRO,	втех	VOC	Meta	Chloride	BGDOC-	Z CEQ				Remarks	
1112	9/27/23	5	1	5-129879	14-27	0923-516-(18-11)(6047)	11	X	20		×		k							
1113	9/27/27	5	1	5-125870	114-27	0923-516-18-18165	12	×	×		×		X.							
1114	9/27/23	5		5-12587	114-27	0923 -SK-(B-1BCM	913	×	×		X		×							
uis	4/27/27	5	1			0923-5K-CB-18(75et		x	7		×		>							
1128	9/27/27	5				70923-5K-CD-2BCWA)	0.000	×	×		×		X,							20
1129	9/27/23	5	1	2-128879	14-27	70923-316-CD-2B E1SA	16	x	×		X		k							
1170	4/27/27	7	1	5-125879	18-27	0923-Sk-CD-28 (20A)	17	X	x		X		ý							
1131	9/27/23	5	1	lar and to-		23-56-(8-28(2584)	18	X	×		x		×							
432	9/27/27	5	1	5-1258791	4-270	927-5x-CA-20(30A+)	19	x	¥		4		X							
1177	9/27/27	5	t	5-125879	14-270	923-510-00-20 (354)	20	Y	¥		K		X							
		s: plea:	se email r	esults to: ambe	er_griffin(	@eogresources.com, chase_se	ttle@eogr	esour	ces.co	om; j	t.mu	rrey@	ghd.	com						
15.11												C		- 11	-1		. be seen by	ed on ice the day	at	1
				of this sample. I am a be grounds for legal a		mpering with or intentionally mislabelling  Sampled by:	the sample loc	ation,						Part of the second				on subsequent d		d or received
Contract Contract	ed by: (Signature	and modern sparranting	Date	Time	ction.	Received by: (Signature)	Date		Time							lab Us	e Only			E
a	in bish	•	91	27127 150	0	Cauchille Clark	9-27	23	16	15		Rece	ived o	on ice		D/ N	c ciny			
	ed by: (Signature		Date	Time	16	Received by: (Signature)	Date		Time											
	ulle len		9-	41.71	15	yes	9/27/	23		:01		<u>T1</u>			_ <u>T2</u>	1181		<u>T3</u>		
Relinguish	ed by: (Signature	P	Date	27(23 Z3	:45	Received by (Signature)	9.28	72	Time	:15		1116	_	0.0	4					
			1711	-11/.7 /.5	U D	101 VIA 11 (1/100	10 /18	W	0.	· 4 U		AVG	Temp	C	1					

envirotech

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Client:		GHD				Bill To					La	b Us	e On	ılv					TAT		EPA P	rogra
	12566090/Ja			ori/JT Murrey	Section 1999	ention: EOG Amber Griffin			Lab	WO#			Job	Numb	er	2	1D 2		D S	standard	CWA	SD\
Address:	the second to the second					dress: 1045 4th st, y, State, Zip:Artesia, NM 88	8210		E	50	14	<u>.</u>	Analy	/34 /sis an	d Me	thod		X		*		RC
No. of the last of the	e, Zip: Albuq				1800000	one:		1						J.S. G.I.			Т			- 44		110
Phone:		563-6516			Em	ail: amber griffin@eogre	sources.	com	15	15											State	
Email:	Moshghan.	Mansooi	i@ghd.co	om					)y 80	y 80	21	0	0	0.0	5	×				NM CO	UT AZ	TX
Report du	ue by:			T -					)RO	)RO	y 80	y 826	601	de 30	C- N	D05- T						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005- TX					Remarks	
1184	9/29/27	7	1	5-1258	7914-	270927-5K-CB-2B	(40pt)	21	×	×		×		×			- 3					
0135	9/27/27	5	l			70923-5K-CB-2B(			K	x		×		×								
lith	1/27/27	5	1	5-1258	7914-	270927-5x-CB-2	B(50,1)	23	大	X		X		>								
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Addition	al Instruction	s: plea	se email i	results to: amb	er_griffi	n@eogresources.com, cha	se_settle	e@eogre	sour	ces.c	om; j	t.mu	irrey	@ghd	.com	1						
				of this sample. I am be grounds for legal		tampering with or intentionally misl Sampled by:	abelling the	sample loca	ition,				4		-500	107				d on ice the day t on subsequent da	100	ed or re
Relinquishe	ed by: (Signature	·)	Date	127/27 Time	00	Received by: (Signature)	of .	9-27:2	23	Time 14	15		Rece	eived	on ic	e:		b Use / N	Only	0.30		
Relinquishe	ed by: (Signature	emple	Date	17-23 Time	115	Received by (Signature)		Date 912112		Time	1:0		T1				T2			T3		
Relinquishe	ed by: Signature	e) /	Date	ITIME 23	3:45	Received by: (Signature)		9.28.		Time	15		AVG	Tem	p °C	4	,			lings:		
100000	ed by: (Signature	1	Date	Time		Received by: (Signature)		Date		Time					2000 PM							



Printed: 9/28/2023 2:04:58PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	GHD	Date Received:	09/28/23 08:	15		Work Order ID:	E309215
Phone:	(505) 884-0672	Date Logged In:	09/27/23 17:	15		Logged In By:	Caitlin Mars
Email:	moshghan.mansoori@ghd.com	Due Date:	09/29/23 17:	:00 (1 day TAT)		,	
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			Comment	s/Resolution
Sample T	urn Around Time (TAT)			Γ			
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				x and remove VOC
Sample C	<u>Cooler</u>				by 8260. C	Corrected sam	ple names on COC.
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C.  Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes <u>C</u>				
Sample C	Container_						
14. Are a	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers		Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lat							
	field sample labels filled out with the minimum info ample ID?	ormation:	Yes				
	ate/Time Collected?		Yes	L			
	ollectors name?		Yes				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA S	ubcontract Lab	o: na		
Client In	<u>istruction</u>						

Signature of client authorizing changes to the COC or sample disposition.

Project	Information
Troject	ormacioi

Chain of Custody

of 3

Received by OCD: 11/1/2023 4:54:09 PM

Client: GHD Bill To									Lab Use Only TAT								Ţ	EPA Program			
Project: 12566090/Jackson B #57  Project Manager: Moshgahan Mansoori/JT Murrey Address: 1045 4th st,									WO#	20			Numl			1D	2D	3D	Standard	CWA	SDWA
Address: 6121 Indian School Rd, NE, st.200 City, State, Zip:Artesia, NM 88210									507	121				000			X		7		DCD.
City, State, Zip: Albuquerque, NM, 87110 Phone:												Anaiy	sis ar	d Met	nod						RCRA
Phone: (425)-563-6516 Email: amber griffin@eogresources.com								2	8	Pa.										State	
Email: Moshghan.Mansoori@ghd.com									8015				0						NMIC	O UT AZ	TX
Report due by:									O by	8021	8260	6010	300	NN	5- TX					0 1 1 1	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by	втех by	VOC by	Metals 6	Chloride 300.0	BGDOC - NM	TCEQ 1005-					Remarks	
1102	4/27/23	5	1	5-125 8	7914	-270923-SK- CB-1 BC1091	1	λ	太	X	X		X						Clie	nt ask	ied to
	9/27/23	9	(	5-125 87	2914-270	123-52-(B-1B(154)	2	×	×	X	X		χ						add	Ble	1
1104	1/27/20	5	1	5-125	8791X-Z	170923-5K-CD-17 (20+4)	3	x	×	X	X		X						ren	nove 1	10C's.
1105	9/27/20	5	1	5-125	87917	2719295 CB-10C25 H	4	×	x	X	X		Ø						Con	rected	Sampl
1106	1/27/27	5	1	5-125	7912	270727-576-CB-1B(304+)	5	x	×	X	×		K							nes.	
1107	9/27/27	9	(	5-125.	8791X-2	170923 SK-CB-1BL75A	16	x	y	X	X		×						9	28/23	CM
1108	9/27/27	9	1	5 (25	4791X	270127-5K-(A-1B (40'H	7	x	×	X	X		K,								
1109	7/27/23	5	1	5-(25)	7917-2	70428 - Sie - CO - 113 (45 A	8	X	X	X	×		¥								
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					orted unless	other arrangements are made. Hazardous	samples will	be re	turne	d to cl	ient o	r disp	osed c	f at the	clie	nt exn	ense	. The	report for the	analysis of th	e above



envirotech 9368

Project Information	Chain of Custody
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roject Information Chain of Custody																				Page 2	2 of 3	
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I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.  Sampled by:										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.												
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envirotech 9368

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Received by OCD: 11/1/2023 4:54:09 PM

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

envirotech

Report to:

Moshghan Mansoori







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

### **Analytical Report**

**GHD** 

Project Name: 12566090/ Jackson B #57

Work Order: E304101

Job Number: 19034-0001

Received: 4/20/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 4/26/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/26/23

Moshghan Mansoori 6121 Indian School Rd. NE #200 Albuquerque, NM 87110

Project Name: 12566090/ Jackson B #57

Workorder: E304101

Date Received: 4/20/2023 8:15:00AM

Moshghan Mansoori,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/20/2023 8:15:00AM, under the Project Name: 12566090/ Jackson B #57.

The analytical test results summarized in this report with the Project Name: 12566090/ Jackson B #57 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

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Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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### **Sample Summary**

GHD	Project Name:	12566090/ Jackson B #57	Donoutoda
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	04/26/23 13:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CB-1A (10 ft)	E304101-01A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (15 ft)	E304101-02A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (20 ft)	E304101-03A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (25 ft)	E304101-04A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (30 ft)	E304101-05A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (35 ft)	E304101-06A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (40 ft)	E304101-07A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (45 ft)	E304101-08A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (50 ft)	E304101-09A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (55 ft)	E304101-10A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (65 ft)	E304101-11A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (70 ft)	E304101-12A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (75 ft)	E304101-13A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (60 ft)	E304101-14A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (10 ft)	E304101-15A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (15 ft)	E304101-16A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (20 ft)	E304101-17A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (25 ft)	E304101-18A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (30 ft)	E304101-19A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (35 ft)	E304101-20A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (40 ft)	E304101-21A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (45 ft)	E304101-22A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (50 ft)	E304101-23A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.

 GHD
 Project Name:
 12566090/ Jackson B #57

 6121 Indian School Rd. NE #200
 Project Number:
 19034-0001
 Reported:

 Albuquerque NM, 87110
 Project Manager:
 Moshghan Mansoori
 4/26/2023
 1:54:26PM

#### CB-1A (10 ft) E304101-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	ΙΥ		Batch: 2316037
Benzene	ND	0.0250	1	1	04/20/23	04/20/23	
Ethylbenzene	ND	0.0250	1	1	04/20/23	04/20/23	
Toluene	ND	0.0250	1	1	04/20/23	04/20/23	
o-Xylene	ND	0.0250	1	1	04/20/23	04/20/23	
p,m-Xylene	ND	0.0500	1	1	04/20/23	04/20/23	
Total Xylenes	ND	0.0250	1	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		99.9 %	70-130		04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		04/20/23	04/20/23	
Surrogate: Toluene-d8		101 %	70-130		04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	ΙΥ		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		99.9 %	70-130		04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		04/20/23	04/20/23	
Surrogate: Toluene-d8		101 %	70-130		04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	ΙL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/20/23	04/21/23	
Surrogate: n-Nonane		117 %	50-200		04/20/23	04/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	RAS		Batch: 2316049
Chloride	97.0	20.0	1	1	04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-1A (15 ft)

E304101-02							
		Reporting					
Analyte	Result	Limit	Dilut	tion Pr	epared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2316037
Benzene	ND	0.0250	1	04	/20/23	04/20/23	
Ethylbenzene	ND	0.0250	1	04	/20/23	04/20/23	
Toluene	ND	0.0250	1	04	/20/23	04/20/23	
o-Xylene	ND	0.0250	1	04	/20/23	04/20/23	
p,m-Xylene	ND	0.0500	1	04	/20/23	04/20/23	
Total Xylenes	ND	0.0250	1	04	/20/23	04/20/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04	1/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	04	1/20/23	04/20/23	
Surrogate: Toluene-d8		102 %	70-130	04	1/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04	/20/23	04/20/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04	1/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	04	1/20/23	04/20/23	
Surrogate: Toluene-d8		102 %	70-130	04	1/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04	1/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04	1/20/23	04/21/23	
Surrogate: n-Nonane		114 %	50-200	04	1/20/23	04/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS			Batch: 2316049

20.0

1

04/20/23

04/21/23

60.9



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### **CB-1A (20 ft)**

#### E304101-03 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: IY Batch: 2316037 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 04/20/23 04/20/23 ND 0.0250 Benzene 1 04/20/23 04/20/23 Ethylbenzene ND 0.0250ND 0.0250 04/20/23 04/20/23 Toluene 1 04/20/23 04/20/23 o-Xylene ND 0.025004/20/23 04/20/23 ND 0.0500 p,m-Xylene 04/20/23 04/20/23 1 Total Xylenes ND 0.0250 04/20/23 04/20/23 Surrogate: Bromofluorobenzene 101 % 70-130 04/20/23 Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 04/20/23 Surrogate: Toluene-d8 105 % 70-130 04/20/2304/20/23 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2316037 ND 1 04/20/23 04/20/23 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 101 % 04/20/23 04/20/23 70-130 109 % 04/20/23 04/20/23 Surrogate: 1,2-Dichloroethane-d4 70-130 Surrogate: Toluene-d8 04/20/23 04/20/23 105 % 70-130 mg/kg Analyst: JL Batch: 2316043 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 04/21/23 ND 25.0 1 04/20/23 Diesel Range Organics (C10-C28) ND 50.0 1 04/20/23 04/21/23 Oil Range Organics (C28-C36) 112 % 50-200 04/20/2304/21/23Surrogate: n-Nonane Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: RAS Batch: 2316049

20.0

44.2

1

04/20/23

04/21/23



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-1A (25 ft)

#### E304101-04

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/20/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/20/23	
Toluene	ND	0.0250	1	04/20/23	04/20/23	
o-Xylene	ND	0.0250	1	04/20/23	04/20/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/20/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		103 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	P	Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		103 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		116 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2316049
		·		·	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-1A (30 ft) E304101-05

Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2316037	
Benzene	ND	0.0250	1	04/20/23	04/20/23		
Ethylbenzene	ND	0.0250	1	04/20/23	04/20/23		
Toluene	ND	0.0250	1	04/20/23	04/20/23		
o-Xylene	ND	0.0250	1	04/20/23	04/20/23		
p,m-Xylene	ND	0.0500	1	04/20/23	04/20/23		
Total Xylenes	ND	0.0250	1	04/20/23	04/20/23		
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/20/23		
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130	04/20/23	04/20/23		
Surrogate: Toluene-d8		99.6 %	70-130	04/20/23	04/20/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		nalyst: IY	Batch: 2316037		
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/20/23		
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/20/23		
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130	04/20/23	04/20/23		
Surrogate: Toluene-d8		99.6 %	70-130	04/20/23	04/20/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg mg/kg	g mg/kg	A	Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/21/23	_	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23		
Surrogate: n-Nonane		112 %	50-200	04/20/23	04/21/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2316049	
Chloride	23.9	20.0	1	04/20/23	04/21/23		



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

### **CB-1A (35 ft)**

		E304101-06					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2316037
Benzene	ND	0.0250	1		04/20/23	04/20/23	
Ethylbenzene	2.65	0.0250	1		04/20/23	04/20/23	
Toluene	0.815	0.0250	1		04/20/23	04/20/23	
o-Xylene	1.26	0.0250	1		04/20/23	04/20/23	
p,m-Xylene	2.14	0.0500	1		04/20/23	04/20/23	
Total Xylenes	3.40	0.0250	1		04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		109 %	70-130		04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		04/20/23	04/20/23	
Surrogate: Toluene-d8		108 %	70-130		04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2316037
Gasoline Range Organics (C6-C10)	114	20.0	1		04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		109 %	70-130		04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		04/20/23	04/20/23	
Surrogate: Toluene-d8		108 %	70-130		04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: J	L		Batch: 2316043
Diesel Range Organics (C10-C28)	1730	250	10	)	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	500	10	)	04/20/23	04/22/23	
Surrogate: n-Nonane		115 %	50-200		04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: F	RAS		Batch: 2316049
Chloride	ND	20.0	1		04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-1A (40 ft)

		E304101-07					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2316037
Benzene	ND	0.0250	1	1	04/20/23	04/20/23	
Ethylbenzene	0.286	0.0250	1	1	04/20/23	04/20/23	
Toluene	0.0895	0.0250	1	1	04/20/23	04/20/23	
o-Xylene	0.153	0.0250	1	1	04/20/23	04/20/23	
p,m-Xylene	0.223	0.0500	1	1	04/20/23	04/20/23	
Total Xylenes	0.376	0.0250	1	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		107 %	70-130		04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		04/20/23	04/20/23	
Surrogate: Toluene-d8		98.4 %	70-130		04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	28.8	20.0	1	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		107 %	70-130		04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		04/20/23	04/20/23	
Surrogate: Toluene-d8		98.4 %	70-130		04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2316043
Diesel Range Organics (C10-C28)	429	50.0		2	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	112	100	2	2	04/20/23	04/22/23	
Surrogate: n-Nonane		111 %	50-200		04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2316049
Chloride	ND	20.0		1	04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### **CB-1A (45 ft)**

		E304101-08					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2316037
Benzene	ND	0.0250		1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250		1	04/20/23	04/21/23	
Toluene	ND	0.0250		1	04/20/23	04/21/23	
o-Xylene	ND	0.0250		1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500		1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250		1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		105 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		97.3 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		105 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		97.3 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2316043
Diesel Range Organics (C10-C28)	90.5	25.0		1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0		1	04/20/23	04/21/23	
Surrogate: n-Nonane		113 %	50-200		04/20/23	04/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2316049
		•					•

20.0

04/20/23

04/21/23

ND



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-1A (50 ft) E304101-09

		E304101-07					
Analyte	Result	Reporting Limit	Dilut	tion	Prepared	Analyzed	Notes
Anaryti	Result		Dilui	tion	Trepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY			Batch: 2316037
Benzene	ND	0.0250	1		04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1		04/20/23	04/21/23	
Toluene	ND	0.0250	1		04/20/23	04/21/23	
o-Xylene	ND	0.0250	1		04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1		04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1		04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		98.4 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1		04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		98.4 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: JL			Batch: 2316043
Diesel Range Organics (C10-C28)	57.7	25.0	1		04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1		04/20/23	04/21/23	
Surrogate: n-Nonane		112 %	50-200		04/20/23	04/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: RA	AS		Batch: 2316049
Chloride	ND	20.0	1		04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

### CB-1A (55 ft)

		E304101-10					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2316037
Benzene	ND	0.0250		1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250		1	04/20/23	04/21/23	
Toluene	ND	0.0250		1	04/20/23	04/21/23	
o-Xylene	ND	0.0250		1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500		1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250		1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		102 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		102 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		102 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		102 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: Љ		Batch: 2316043
Diesel Range Organics (C10-C28)	26.7	25.0		1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0		1	04/20/23	04/21/23	
Surrogate: n-Nonane		115 %	50-200		04/20/23	04/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: RAS		Batch: 2316049
Chloride	ND	20.0		1	04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-1A (65 ft)

E304101-11
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		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2316037
Benzene	ND	0.0250		1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250		1	04/20/23	04/21/23	
Toluene	ND	0.0250		1	04/20/23	04/21/23	
o-Xylene	ND	0.0250		1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500		1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250		1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		99.9 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		99.9 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2316043
Diesel Range Organics (C10-C28)	26.6	25.0		1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0		1	04/20/23	04/21/23	
Surrogate: n-Nonane		116 %	50-200		04/20/23	04/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2316049
Chloride	ND	20.0		1	04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-1A (70 ft)

		E304101-12							
Reporting									
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY	7		Batch: 2316037		
Benzene	ND	0.0250	1	1	04/20/23	04/21/23			
Ethylbenzene	ND	0.0250	1	1	04/20/23	04/21/23			
Toluene	ND	0.0250	1	1	04/20/23	04/21/23			
o-Xylene	ND	0.0250	1	1	04/20/23	04/21/23			
p,m-Xylene	ND	0.0500	1	1	04/20/23	04/21/23			
Total Xylenes	ND	0.0250	1	1	04/20/23	04/21/23			
Surrogate: Bromofluorobenzene		104 %	70-130		04/20/23	04/21/23			
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		04/20/23	04/21/23			
Surrogate: Toluene-d8		99.7 %	70-130		04/20/23	04/21/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2316037			
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/20/23	04/21/23			
Surrogate: Bromofluorobenzene		104 %	70-130		04/20/23	04/21/23			
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		04/20/23	04/21/23			
Surrogate: Toluene-d8		99.7 %	70-130		04/20/23	04/21/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2316043		
Diesel Range Organics (C10-C28)	39.2	25.0	1	1	04/20/23	04/21/23			
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/20/23	04/21/23			
Surrogate: n-Nonane		115 %	50-200		04/20/23	04/21/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: R	AS		Batch: 2316049		
		•							

20.0

04/20/23

04/21/23

ND



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-1A (75 ft)

		E304101-13					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2316037
Benzene	ND	0.0250	1	l	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	l	04/20/23	04/21/23	
Toluene	ND	0.0250	1	l	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	[	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	l	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	l	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		103 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		101 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		103 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		101 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	l	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	[	04/20/23	04/22/23	
Surrogate: n-Nonane		117 %	50-200		04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: R	AS		Batch: 2316049
Chloride	ND	20.0	1		04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-1A (60 ft)

		E304101-14					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2316037
Benzene	ND	0.0250	1	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		102 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		102 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2316043
Diesel Range Organics (C10-C28)	35.3	25.0	1	1	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/20/23	04/22/23	
Surrogate: n-Nonane		114 %	50-200		04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	RAS		Batch: 2316049
Chloride	ND	20.0	1	1	04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-2A (10 ft)

#### E304101-15 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: IY Batch: 2316037 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 04/21/23 ND 0.0250 04/20/23 Benzene 1 04/20/23 04/21/23 Ethylbenzene ND 0.0250ND 0.0250 04/20/23 04/21/23 Toluene 1 04/20/23 04/21/23 o-Xylene ND 0.025004/20/23 04/21/23 ND 0.0500 1 p,m-Xylene 04/20/23 04/21/23 1 Total Xylenes ND 0.0250 04/20/23 04/21/23 Surrogate: Bromofluorobenzene 101 % 70-130 04/21/23 Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 04/20/23 Surrogate: Toluene-d8 103 % 70-130 04/20/2304/21/23 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2316037 ND 1 04/20/23 04/21/23 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 101 % 04/20/23 04/21/23 70-130 108 % 04/20/23 04/21/23 Surrogate: 1,2-Dichloroethane-d4 70-130 Surrogate: Toluene-d8 04/20/23 04/21/23 103 % 70-130 mg/kg Analyst: JL Batch: 2316043 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 04/22/23 ND 25.0 1 04/20/23 Diesel Range Organics (C10-C28) ND 50.0 1 04/20/23 04/22/23 Oil Range Organics (C28-C36) 108 % 50-200 04/20/2304/22/23Surrogate: n-Nonane Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: RAS Batch: 2316049

20.0

240

1

04/20/23

04/21/23



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-2A (15 ft)

#### E304101-16

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2316037
Benzene	ND	0.0250	1		04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1		04/20/23	04/21/23	
Toluene	ND	0.0250	1		04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	Į.	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1		04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1		04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: IY		IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1		04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1		04/20/23	04/22/23	
Surrogate: n-Nonane		113 %	50-200		04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	RAS		Batch: 2316049
-	82.7	20.0	1		04/20/23	04/21/23	<u> </u>



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-2A (20 ft)

		E304101-17							
Reporting									
Analyte	Result	Limit	Dilu	tion Prepared	Analyzed	Notes			
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY		Batch: 2316037			
Benzene	ND	0.0250	1	04/20/23	04/21/23				
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23				
Toluene	ND	0.0250	1	04/20/23	04/21/23				
o-Xylene	ND	0.0250	1	04/20/23	04/21/23				
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23				
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23				
Surrogate: Bromofluorobenzene		98.2 %	70-130	04/20/23	04/21/23				
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/20/23	04/21/23				
Surrogate: Toluene-d8		100 %	70-130	04/20/23	04/21/23				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY		Batch: 2316037			
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23				
Surrogate: Bromofluorobenzene		98.2 %	70-130	04/20/23	04/21/23				
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/20/23	04/21/23				
Surrogate: Toluene-d8		100 %	70-130	04/20/23	04/21/23				
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2316043			
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/22/23				
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/22/23				
Surrogate: n-Nonane		114 %	50-200	04/20/23	04/22/23				
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049			

20.0

04/20/23

04/21/23

137



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-2A (25 ft)

#### E304101-18 Reporting Analyte Limit Dilution Analyzed Result Prepared Notes Analyst: IY Batch: 2316037 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 04/21/23 ND 0.0250 04/20/23 Benzene 1 04/20/23 04/21/23 Ethylbenzene ND 0.0250ND 0.0250 04/20/23 04/21/23 Toluene 1 04/20/23 04/21/23 o-Xylene ND 0.025004/20/23 04/21/23 ND 0.0500 1 p,m-Xylene 04/20/23 04/21/23 1 Total Xylenes ND 0.0250 04/20/23 04/21/23 Surrogate: Bromofluorobenzene 100 % 70-130 04/21/23 Surrogate: 1,2-Dichloroethane-d4 107 % 70-130 04/20/23 Surrogate: Toluene-d8 104 % 70-130 04/20/2304/21/23 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2316037 ND 1 04/20/23 04/21/23 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 100 % 04/20/23 04/21/23 70-130 107 % 04/20/23 04/21/23 Surrogate: 1,2-Dichloroethane-d4 70-130 Surrogate: Toluene-d8 04/20/23 04/21/23 104 % 70-130 mg/kg Analyst: JL Batch: 2316043 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 04/22/23 29.2 25.0 1 04/20/23 Diesel Range Organics (C10-C28) ND 50.0 1 04/20/23 04/22/23 Oil Range Organics (C28-C36) 112 % 50-200 04/20/2304/22/23Surrogate: n-Nonane Anions by EPA 300.0/9056A mg/kg mg/kg Analyst: RAS Batch: 2316049

20.0

79.4

1

04/20/23

04/21/23



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-2A (30 ft) E304101-19

		E304101-13					
	D 1	Reporting	D.:		D 1		N.
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY	?		Batch: 2316037
Benzene	ND	0.0250	1		04/20/23	04/21/23	
Ethylbenzene	0.896	0.0250	1		04/20/23	04/21/23	
Toluene	0.375	0.0250	1		04/20/23	04/21/23	
o-Xylene	0.408	0.0250	1		04/20/23	04/21/23	
p,m-Xylene	0.703	0.0500	1		04/20/23	04/21/23	
Total Xylenes	1.11	0.0250	1		04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		102 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: IY		7		Batch: 2316037
Gasoline Range Organics (C6-C10)	43.8	20.0	1		04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		102 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL			Batch: 2316043
Diesel Range Organics (C10-C28)	949	50.0	2	!	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	316	100	2	!	04/20/23	04/22/23	
Surrogate: n-Nonane		119 %	50-200		04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: R.	AS		Batch: 2316049
Chloride	61.9	20.0	1		04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-2A (35 ft) E304101-20

		E304101-20				
	D 1	Reporting		D. I		N.
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analy	yst: IY		Batch: 2316037
Benzene	0.455	0.250	10	04/20/23	04/22/23	
Ethylbenzene	13.4	0.250	10	04/20/23	04/22/23	
Toluene	8.51	0.250	10	04/20/23	04/22/23	
o-Xylene	5.11	0.250	10	04/20/23	04/22/23	
p,m-Xylene	10.1	0.500	10	04/20/23	04/22/23	
Total Xylenes	15.2	0.250	10	04/20/23	04/22/23	
Surrogate: Bromofluorobenzene		106 %	70-130	04/20/23	04/22/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/22/23	
Surrogate: Toluene-d8		108 %	70-130	04/20/23	04/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2316037
Gasoline Range Organics (C6-C10)	370	200	10	04/20/23	04/22/23	
Surrogate: Bromofluorobenzene		106 %	70-130	04/20/23	04/22/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/22/23	
Surrogate: Toluene-d8		108 %	70-130	04/20/23	04/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	3710	250	10	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	1120	500	10	04/20/23	04/22/23	
Surrogate: n-Nonane		145 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2316049
Chloride	47.2	20.0	1	04/20/23	04/21/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### **CB-2A (40 ft)**

		E304101-21				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analys	:: IY		Batch: 2316038
Benzene	0.900	0.125	5	04/20/23	04/21/23	
Ethylbenzene	19.5	0.125	5	04/20/23	04/21/23	
Toluene	14.0	0.125	5	04/20/23	04/21/23	
o-Xylene	7.43	0.125	5	04/20/23	04/21/23	
p,m-Xylene	15.0	0.250	5	04/20/23	04/21/23	
Total Xylenes	22.5	0.125	5	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		108 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		108 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2316038
Gasoline Range Organics (C6-C10)	588	100	5	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		108 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		108 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2316045
Diesel Range Organics (C10-C28)	5310	2500	100	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	5000	100	04/20/23	04/22/23	
Surrogate: n-Nonane		160 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2316055
Chloride	45.9	20.0	1	04/20/23	04/20/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### **CB-2A (45 ft)**

		E304101-22				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analys	t: IY		Batch: 2316038
Benzene	0.913	0.125	5	04/20/23	04/21/23	
Ethylbenzene	11.9	0.125	5	04/20/23	04/21/23	
Toluene	10.4	0.125	5	04/20/23	04/21/23	
o-Xylene	4.34	0.125	5	04/20/23	04/21/23	
p,m-Xylene	8.97	0.250	5	04/20/23	04/21/23	
Total Xylenes	13.3	0.125	5	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		106 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2316038
Gasoline Range Organics (C6-C10)	381	100	5	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		106 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2316045
Diesel Range Organics (C10-C28)	4230	2500	100	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	5000	100	04/20/23	04/22/23	
Surrogate: n-Nonane		149 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2316055
Chloride	318	20.0	1	04/20/23	04/20/23	



GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

#### CB-2A (50 ft)

#### E304101-23 Reporting Analyte Limit Dilution Result Prepared Analyzed Notes Analyst: IY Batch: 2316038 mg/kg mg/kg Volatile Organic Compounds by EPA 8260B 10.6 04/24/23 0.250 10 04/20/23 Benzene 10 04/20/23 04/24/23 Ethylbenzene 38.5 0.25047.9 0.250 10 04/20/23 04/24/23 Toluene 10 04/20/23 04/24/23 o-Xylene 12.5 0.250 10 04/20/23 04/24/23 26.8 0.500 p,m-Xylene 04/20/23 04/24/23 10 Total Xylenes 39.3 0.250 04/20/23 04/24/23 Surrogate: Bromofluorobenzene 106 % 70-130 Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 04/20/23 04/24/23 Surrogate: Toluene-d8 102 % 70-130 04/20/23 04/24/23 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2316038 10 04/20/23 04/24/23 766 200 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 106 % 04/20/23 04/24/23 70-130 110 % 04/20/23 04/24/23 Surrogate: 1,2-Dichloroethane-d4 70-130 Surrogate: Toluene-d8 04/20/23 04/24/23 102 % 70-130 mg/kg Analyst: KM Batch: 2316045 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 2500 04/22/23 100 04/20/23 6850 Diesel Range Organics (C10-C28) ND 5000 100 04/20/23 04/22/23 Oil Range Organics (C28-C36) 214% 04/20/2304/22/23S5Surrogate: n-Nonane 50-200

mg/kg

40.0

Analyst: RAS

04/20/23

04/20/23

2

mg/kg

4500

Batch: 2316055

Anions by EPA 300.0/9056A

GHD Project Name: 12566090/ Jackson B #57 Reported:
6121 Indian School Rd. NE #200 Project Number: 19034-0001
Albuquerque NM, 87110 Project Manager: Moshghan Mansoori 4/26/2023 1:54:26PM

Albuquerque NM, 87110		Project Manager	r: M	oshghan Man	soori			4/2	6/2023 1:54:26PN
	Vo	olatile Organi	ic Compo	unds by El	PA 8260I	3			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2316037-BLK1)							Prepared: 0	4/20/23 Anal	yzed: 04/20/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.530		0.500		106	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			
LCS (2316037-BS1)							Prepared: 0	4/20/23 Anal	yzed: 04/20/23
Benzene	2.27	0.0250	2.50		90.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.0	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.25	0.0250	2.50		90.0	70-130			
p,m-Xylene	4.45	0.0500	5.00		89.0	70-130			
Total Xylenes	6.70	0.0250	7.50		89.4	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.541		0.500		108	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
Matrix Spike (2316037-MS1)				Source:	E304101-0	05	Prepared: 0	4/20/23 Anal	yzed: 04/20/23
Benzene	2.55	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.49	0.0250	2.50	ND	99.5	45-135			
Toluene	2.48	0.0250	2.50	ND	99.3	48-130			
o-Xylene	2.48	0.0250	2.50	ND	99.2	43-135			
p,m-Xylene	4.89	0.0500	5.00	ND	97.9	43-135			
Total Xylenes	7.37	0.0250	7.50	ND	98.3	43-135			
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.552		0.500		110	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Matrix Spike Dup (2316037-MSD1)				Source:	E304101-0	05	Prepared: 0	4/20/23 Anal	yzed: 04/20/23
Benzene	2.44	0.0250	2.50	ND	97.4	48-131	4.77	23	
Ethylbenzene	2.37	0.0250	2.50	ND	94.7	45-135	4.95	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	4.78	24	
o-Xylene	2.34	0.0250	2.50	ND	93.8	43-135	5.64	27	
p,m-Xylene	4.69	0.0500	5.00	ND	93.8	43-135	4.25	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.8	43-135	4.71	27	
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.569		0.500		114	70-130			
			0.500		00.6	50 120			



0.500

99.6

70-130

0.498

Surrogate: Toluene-d8

GHD Project Name: 12566090/ Jackson B #57 Reported:
6121 Indian School Rd. NE #200 Project Number: 19034-0001
Albuquerque NM, 87110 Project Manager: Moshghan Mansoori 4/26/2023 1:54:26PM

Albuquerque NM, 87110		Project Manager	:: M	oshghan Man	isoori			4/2	26/2023 1:54:26PM
	Vo	olatile Organi	ic Compo	unds by El	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2316038-BLK1)							Prepared: 04	4/20/23 Anal	yzed: 04/21/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.578		0.500		116	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			
LCS (2316038-BS1)							Prepared: 04	4/20/23 Anal	yzed: 04/21/23
Benzene	2.41	0.0250	2.50		96.3	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.2	70-130			
Toluene	2.47	0.0250	2.50		98.7	70-130			
o-Xylene	2.39	0.0250	2.50		95.6	70-130			
p,m-Xylene	4.82	0.0500	5.00		96.4	70-130			
Total Xylenes	7.21	0.0250	7.50		96.2	70-130			
Surrogate: Bromofluorobenzene	0.550		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.578		0.500		116	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			
Matrix Spike (2316038-MS1)				Source:	E304099-	21	Prepared: 04	4/20/23 Anal	yzed: 04/21/23
Benzene	2.47	0.0250	2.50	ND	98.7	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.53	0.0250	2.50	ND	101	48-130			
o-Xylene	2.46	0.0250	2.50	ND	98.5	43-135			
p,m-Xylene	4.91	0.0500	5.00	ND	98.1	43-135			
Total Xylenes	7.37	0.0250	7.50	ND	98.2	43-135			
Surrogate: Bromofluorobenzene	0.543		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Matrix Spike Dup (2316038-MSD1)				Source:	E304099-	21	Prepared: 04	4/20/23 Anal	yzed: 04/21/23
Benzene	2.51	0.0250	2.50	ND	100	48-131	1.73	23	
Ethylbenzene	2.48	0.0250	2.50	ND	99.1	45-135	0.851	27	
Toluene	2.55	0.0250	2.50	ND	102	48-130	0.688	24	
o-Xylene	2.47	0.0250	2.50	ND	98.9	43-135	0.365	27	
p,m-Xylene	4.90	0.0500	5.00	ND	98.1	43-135	0.0408	27	
Total Xylenes	7.38	0.0250	7.50	ND	98.3	43-135	0.0950	27	
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.547		0.500		109	70-130			



0.500

103

70-130

0.516

Surrogate: Toluene-d8

 GHD
 Project Name:
 12566090/ Jackson B #57
 Reported:

 6121 Indian School Rd. NE #200
 Project Number:
 19034-0001

 Albuquerque NM, 87110
 Project Manager:
 Moshghan Mansoori
 4/26/2023
 1:54:26PM

Nonhalogenated	<b>Organics</b>	by EPA	8015D - 0	GRO
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Ana	

A	Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	LIIIII	Level	Result	Rec	Limits	KrD	LIIIII	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2316037-BLK1)							Prepared: 04	4/20/23 A	nalyzed: 04/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.530		0.500		106	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			
LCS (2316037-BS2)							Prepared: 04	4/20/23 A	nalyzed: 04/20/23
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.535		0.500		107	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			
Matrix Spike (2316037-MS2)				Source:	E304101-0	05	Prepared: 04	4/20/23 A	nalyzed: 04/20/23
Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.552		0.500		110	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			
Matrix Spike Dup (2316037-MSD2)				Source:	E304101-0	05	Prepared: 04	4/20/23 A	nalyzed: 04/20/23
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	2.66	20	
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
	0.524		0.500		100				
Surrogate: 1,2-Dichloroethane-d4	0.524 0.514		0.500		103	70-130			



 GHD
 Project Name:
 12566090/ Jackson B #57
 Reported:

 6121 Indian School Rd. NE #200
 Project Number:
 19034-0001

 Albuquerque NM, 87110
 Project Manager:
 Moshghan Mansoori
 4/26/2023
 1:54:26PM

	-
Analyst:	-11

Analyte Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

mg/kg % % % % %  Prepared: 04/20/23	Notes Analyzed: 04/21/23
	Analyzed: 04/21/23
20.120	
00.4 70.130	
99.4 70-130	
116 70-130	
104 70-130	
Prepared: 04/20/23	Analyzed: 04/21/23
104 70-130	
104 70-130	
110 70-130	
107 70-130	
<b>Source: E304099-21</b> Prepared: 04/20/23	Analyzed: 04/21/23
ND 110 70-130	
101 70-130	
105 70-130	
107 70-130	
<b>Source: E304099-21</b> Prepared: 04/20/23	Analyzed: 04/21/23
ND 103 70-130 6.38 20	
100 70-130	
107 70-130	
107 70-130	
	116   70-130



GHD Project Name: 12566090/ Jackson B #57 Reported:
6121 Indian School Rd. NE #200 Project Number: 19034-0001
Albuquerque NM, 87110 Project Manager: Moshghan Mansoori 4/26/2023 1:54:26PM

Albuquerque NM, 8/110		Project Manage	r: IVI	osngnan Man	soori				4/20/2023 1:34:20PF		
	Nonhalogenated Organics by EPA 8015D - DRO/ORO								Analyst: JL		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2316043-BLK1)							Prepared: 0	4/20/23 A	nalyzed: 04/21/23		
Diesel Range Organics (C10-C28)	ND	25.0									
Dil Range Organics (C28-C36)	ND	50.0									
urrogate: n-Nonane	57.8		50.0		116	50-200					
LCS (2316043-BS1)							Prepared: 0	4/20/23 A	nalyzed: 04/21/23		
Diesel Range Organics (C10-C28)	277	25.0	250		111	38-132					
urrogate: n-Nonane	53.7		50.0		107	50-200					
Matrix Spike (2316043-MS1)				Source:	E304101-	12	Prepared: 0	4/20/23 A	nalyzed: 04/21/23		
Diesel Range Organics (C10-C28)	322	25.0	250	39.2	113	38-132					
urrogate: n-Nonane	55.5		50.0		111	50-200					
Matrix Spike Dup (2316043-MSD1)				Source:	E304101-	12	Prepared: 0	4/20/23 A	nalyzed: 04/21/23		
Diesel Range Organics (C10-C28)	326	25.0	250	39.2	115	38-132	1.18	20			
Gurrogate: n-Nonane	54.7		50.0		109	50-200					



 GHD
 Project Name:
 12566090/ Jackson B #57
 Reported:

 6121 Indian School Rd. NE #200
 Project Number:
 19034-0001

 Albuquerque NM, 87110
 Project Manager:
 Moshghan Mansoori
 4/26/2023
 1:54:26PM

Albuquerque NM, 87110		Project Manage	r: M	oshghan Man	soori			4/2	26/2023 1:54:26PN
	Nonhal	Nonhalogenated Organics by EPA 8015D - DRO/ORO							Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2316045-BLK1)							Prepared: 0-	4/20/23 Ana	yzed: 04/21/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.8		50.0		102	50-200			
LCS (2316045-BS1)							Prepared: 0-	4/20/23 Ana	yzed: 04/21/23
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Gurrogate: n-Nonane	50.2		50.0		100	50-200			
Matrix Spike (2316045-MS1)				Source:	E304093-	09	Prepared: 0-	4/20/23 Ana	yzed: 04/24/23
Diesel Range Organics (C10-C28)	1010	250	250	788	89.1	38-132			
urrogate: n-Nonane	47.3		50.0		94.5	50-200			
Matrix Spike Dup (2316045-MSD1)				Source:	E304093-	09	Prepared: 0	4/20/23 Ana	yzed: 04/24/23
Diesel Range Organics (C10-C28)	1250	250	250	788	187	38-132	21.5	20	M5, R2
Gurrogate: n-Nonane	51.0		50.0		102	50-200			



GHD 6121 Indian School Rd. NE #200	Project Name: Project Number:	12566090/ Jackson B #57 19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

11104444444 11111, 07110		Troject Manage		oongnan man	.50011				
		Anions	Analyst: RAS						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	N.
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2316049-BLK1)							Prepared: 0	04/20/23 An	nalyzed: 04/21/23
Chloride	ND	20.0							
LCS (2316049-BS1)							Prepared: 0	04/20/23 An	nalyzed: 04/21/23
Chloride	270	20.0	250		108	90-110			
Matrix Spike (2316049-MS1)				Source:	E304101-	01	Prepared: 0	04/20/23 An	nalyzed: 04/21/23
Chloride	365	20.0	250	97.0	107	80-120			
Matrix Spike Dup (2316049-MSD1)				Source:	E304101-	01	Prepared: 0	04/20/23 An	nalyzed: 04/21/23
Chloride	366	20.0	250	97.0	107	80-120	0.107	20	



GHD 6121 Indian School Rd. NE #200		Project Name: Project Number:		2566090/ Jacks 9034-0001	son B #57				Repoi	Reported:				
Albuquerque NM, 87110 Project Manager: Moshghan Mansoori									4/26/2023 1:54:26PM					
	Analyst: RAS													
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limi	t	otes				
Blank (2316055-BLK1)	ND	20.0					Prepared: 04	4/20/23	Analyzed: 04	/20/23				
Chloride LCS (2316055-BS1)		20.0					Prepared: 04	4/20/23	Analyzed: 04	/20/23				
Chloride  Matrix Spike (2316055-MS1)	265	20.0	250	Source:	106 <b>E304095-0</b>	90-110 <b>1</b>	Prepared: 04	4/20/23	Analyzed: 04	/20/23				
Chloride	272	20.0	250	ND	109	80-120								
Matrix Spike Dup (2316055-MSD1)	272	20.0	250		E304095-0				Analyzed: 04	/20/23				
Chloride	272	20.0	250	ND	109	80-120	0.154	20						

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



### **Definitions and Notes**

	GHD	Project Name:	12566090/ Jackson B #57	
ı	6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
ı	Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	04/26/23 13:54

M5	The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
R2	The RPD exceeded the acceptance limit.
S5	Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information						Chain of Custody												Pa	ge _	_						
Client: GHD						Bill To					Lab Use Only									TA	т		EPA Program			_
					5%	Attention:	EOG Amber Griffin			74 3844079	VO#	ist si	V:X	Job Number				1D 2D		3D	Standard		1	CWA	SDW	ΪA
Project Manager: Moshghan Mansoori/ JT Murrey						Address: 1045 4th St.				E 304161			19034-001			N	$\neg$			x	x					
Address:61	21 Indian S	chool Rd. N	NE St. 200			City, State, Zip: Artesia, NM 88210 Phone:									Analysis and Method				•		<u> </u>	X 5 3 5	13.3		RCR/	<u></u>
City, State,	Zip: Albuq	<u>terque, NN</u>	187110															$\top$		F-	$\square$		. [			_
Phone:+1 (4	125) 563-69	516			1942	Email: ambo	urces.com			o l	.						1 1			Ιľ			State			
Email: Mos	nghan.man	soorl@ghd	l.com								0/0	١.		ı î				5			[	NM C	0 l	UT AZ	: TX	
Report due					1945						ğ	1208	8260	2010	8		- 1	ž	i	ř	1 [			$\Box \Box$		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID					Lab Number		ТРН GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC		CDOC				Remarks		
									4.62.21 3.62.21																	
,	4/19/2023	. SO	1			CB-1A	10 ft)		1		Х	Х			Χ̈́											
	4/19/2023	50	1			CB-1A	·		2		Х	X			X											
	4/19/2023	so	1			CB-1A	20 ft)		3		X	X			Х											
	4/19/2023	so	1			CB-1A (25 ft) CB-1A (30 ft)			4		X	X			Х											
	4/19/2023	so	1						5		Х	X			X						Ш					
	4/19/2023	so	1	_ CE			35 ft)		CO		Х	X			X.											
	4/19/2023	so	1			CB-1A			7		Х	X			X											
	4/19/2023	so	1			CB-1A			8		Х	X			X						Ŀ					
	4/19/2023	so	1	<u></u>		CB-1A			9		Х				X									-		
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				his sample. I am a rounds for legal a		npering with or in	tentionally mislabelling the Sampled by: Daniel						_			thermal po but less th					ie the day	they are :	ampled	or received p	packed in ice a	t an
Relinquished by: (Signature)  District			Time 4:30				Date 4-19-23			30		Received on ice:			Ø	3	Use	Only								
Relinquished by (Signature)  Oate  1-19-23			Time 4:30	7 11 11 11 11 1		nt	Date / 20/	23	8:15			т1,				12	1 12/19			ъ √	<b>V</b> .	<u>\$2.</u>				
Relinquished by: (Signature) Date Tim			Time	Received by: (Signature)			Date		Time			AVG	Temp	°c <u>4</u>							がある。					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other									Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
							nade. Hazardous samp ty of the laboratory is li						client	expen	se. Th	e report	for th	e anal	ysis of	the abo	ive					
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# envirotech

Page 109 of 368

Client: GHD	2				3 7 7 7	Bill To		an gra	\$4. U	نا نو	ab U	se On	V		<u>.</u>		T/	AT	EPA Pr	ogram
Project: 125	66090 / Ja	ckson 8 #5	7		Att	tention: EOG Amber Griffin		Lab W				Job 1				D 2D	3D	Standard	CWA	SDWA
Project Mar	nager: Mos	hghan Mar	soori/JT l	Murrey	Ad Ad	dress: 1045 4th St.		E 3	٥Щ	10		191	34	000)		1	1	x	-	
Address:61	21 Indian S	ichool Rd. f	VE St. 200		Cit	y, State, Zip: Artesia, NM 88210		[.1 mm/s x.	ini jin . Serne	·*********	(Acceptance			and Meth			-	- ASSESS		RCRA
City, State,	Zip: Albuqı	uerque. NA	<u> 187110</u>		Ph.	one:					Т	1	1		$T^{T}$	T				
Phone:+1 (4	125) 563-69	516			(35) (36)	nail: amber_griffin@eogresources.com	<u>m</u>						1						State	
Email: Mosl	nghan.man	soori@ghd	.com		7				3/08			l			=			NM CO	UT AZ	тх
Report due									)QK	8021	92	lg	98		ž		¥			
Time Sampled	Sampled	Matrix	No. of Containers	Sample (D			Lab Number		ТРН GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		Верос		GDOC		Remarks	
	4/19/2023	SO	1			CB-1A (55 ft)	lo		X				X							
	4/19/2023	SO	1			CB-1A (65 ft)	Ш		X	Х			X							
	4/19/2023	SO	1			CB-1A (70 ft)	112		X	X		_	х							
	4/19/2023	SO	1			CB-1A (75 ft)	13		Х	Х			х							
	4/19/2023	SO	1			CB-1A (60 ft)	14		х	X			X						_	
	4/19/2023	so	1		•	CB-2A (10 ft)	ıs		х	X			X							
	4/19/2023	SO	1			CB-2A (15 ft)	Ice		х	X			х							
	4/19/2023	SO	1			CB-2A (20 ft)	17		х	Х			х							
	4/19/2023	so	1			CB-2A (25 ft)	18		х	Х			х							
	4/19/2023	śo	1			CB-2A (30 ft)	19		х	X			х			Ì				
Additional	Instruction	s: Please	email res	ults to: amb	er_griffin@eog	resources.com; chase_settle@eogre	esources.com;	t.murr	ey@g	hd.co	m; d	aniel.	sparks	@ghd.co	m·			<del>1</del>		
				his sample. I am rounds for legal a	•	ng with or intentionally mislabelling the sample loc Sampled by: Daniel Sparks	tation,				_			thermal prese but less than (				ce the day they are sample	d or received pa	cked in Ice at an
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Sample Matrix:	S - Soil, Sd - So	olid, Sg - Sludge,	, A - Aqueous,	O - Other	<u> </u>	<u>_L</u>	Container	Type: (	g - glass,	<b>p</b> - pc	oly/pl	astic, a	g - ami	ber glass.	v - VC	Α	1934Z		5. (3 <b>5</b> )		U 6/3	<u> </u>	30 30	
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#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

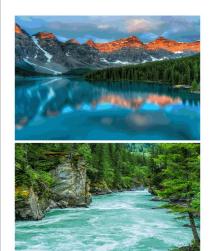
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Time sampled not provided on COC per client.
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act Lab: NA

Signature of client authorizing changes to the COC or sample disposition.

Report to:

Moshghan Mansoori







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

### **Analytical Report**

**EOG Resources** 

Project Name: Jackson B#57

Work Order: E211120

Job Number: 19034-0001

Received: 11/18/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/21/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 11/21/22

Moshghan Mansoori 104 South 4th Street Artesia, NM 88210

Project Name: Jackson B#57

Workorder: E211120

Date Received: 11/18/2022 10:00:00AM

Moshghan Mansoori,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/18/2022 10:00:00AM, under the Project Name: Jackson B#57.

The analytical test results summarized in this report with the Project Name: Jackson B#57 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

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Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

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labadmin@envirotech-inc.com

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Lynn Jarbuc

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West Texas Midland/Odessa Area Rayny Hagan

Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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### Sample Summary

EOG Resources	Project Name:	Jackson B#57	Donoutodi
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/22 14:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CB-1-10'	E211120-01A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-15'	E211120-02A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-20'	E211120-03A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-25'	E211120-04A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-30'	E211120-05A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-35'	E211120-06A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-40'	E211120-07A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-45'	E211120-08A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-50'	E211120-09A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-55'	E211120-10A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-60'	E211120-11A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-65'	E211120-12A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-70'	E211120-13A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-75'	E211120-14A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-10'	E211120-15A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-15'	E211120-16A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-20'	E211120-17A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-25'	E211120-18A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-30'	E211120-19A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-35'	E211120-20A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-40'	E211120-21A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-45'	E211120-22A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-50'	E211120-23A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-10' E211120-01

		E211120-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	0.0277	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		77.4 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	84.0	25.0	1	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/19/22	
Surrogate: n-Nonane		115 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: KL		Batch: 2247114
Chloride	242	20.0	1	11/18/22	11/19/22	



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-15'

E211120-02						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	ND	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.1 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	107	25.0	1	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/19/22	
Surrogate: n-Nonane		106 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2247114
Chloride	123	20.0	1	11/18/22	11/19/22	



Chloride

### Sample Data

EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-20'

#### E211120-03 Reporting Analyte Result Limit Dilution Prepared Analyzed Notes Analyst: RKS Batch: 2247109 mg/kg mg/kg Volatile Organics by EPA 8021B 11/18/22 11/20/22 ND 0.0250 Benzene 1 11/18/22 11/20/22 Ethylbenzene ND 0.0250ND 0.02501 11/18/22 11/20/22 Toluene 1 11/18/22 11/20/22 ND o-Xylene 0.02501 11/18/22 11/20/22 ND 0.0500 p,m-Xylene 11/20/22 11/18/22 0.0250 1 Total Xylenes ND 11/18/22 11/20/22 103 % 70-130 Surrogate: 4-Bromochlorobenzene-PID Analyst: RKS mg/kg Batch: 2247109 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 11/18/22 11/20/22 ND 20.0 1 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 80.1 % 11/18/22 11/20/22 70-130 mg/kg mg/kg Analyst: RAS Batch: 2247112 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 11/18/22 11/19/22 Diesel Range Organics (C10-C28) 11/19/22 ND 11/18/22 Oil Range Organics (C28-C36) 50.0 1 11/18/22 11/19/22 Surrogate: n-Nonane 104 % 50-200 Analyst: KL Batch: 2247114 Anions by EPA 300.0/9056A mg/kg mg/kg

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EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-25'

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Result	Limit	Dilution	n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2247109
0.254	0.0250	1	11/18/22	11/20/22	
6.52	0.0250	1	11/18/22	11/20/22	
4.32	0.0250	1	11/18/22	11/20/22	
2.70	0.0250	1	11/18/22	11/20/22	
6.54	0.0500	1	11/18/22	11/20/22	
9.24	0.0250	1	11/18/22	11/20/22	
	107 %	70-130	11/18/22	11/20/22	
mg/kg	mg/kg	Analyst: RKS		Batch: 2247109	
142	20.0	1	11/18/22	11/20/22	
	101 %	70-130	11/18/22	11/20/22	
mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2247112
1660	125	5	11/18/22	11/19/22	
522	250	5	11/18/22	11/19/22	
	124 %	50-200	11/18/22	11/19/22	
mg/kg	mg/kg	Ana	alyst: KL		Batch: 2247114
	mg/kg  0.254 6.52 4.32 2.70 6.54 9.24  mg/kg  142	mg/kg         mg/kg           0.254         0.0250           6.52         0.0250           4.32         0.0250           2.70         0.0250           6.54         0.0500           9.24         0.0250           I07 %         mg/kg           mg/kg         mg/kg           101 %         mg/kg           1660         125           522         250	Result         Limit         Dilution           mg/kg         mg/kg         Am           0.254         0.0250         1           6.52         0.0250         1           4.32         0.0250         1           2.70         0.0250         1           6.54         0.0500         1           9.24         0.0250         1           107%         70-130           mg/kg         mg/kg         Am           142         20.0         1           101%         70-130         mg/kg           mg/kg         mg/kg         Am           1660         125         5           522         250         5	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           0.254         0.0250         1         11/18/22           6.52         0.0250         1         11/18/22           4.32         0.0250         1         11/18/22           2.70         0.0250         1         11/18/22           6.54         0.0500         1         11/18/22           9.24         0.0250         1         11/18/22           mg/kg         mg/kg         Analyst: RKS           142         20.0         1         11/18/22           mg/kg         mg/kg         Analyst: RAS           mg/kg         mg/kg         Analyst: RAS           1660         125         5         11/18/22           522         250         5         11/18/22	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           0.254         0.0250         1         11/18/22         11/20/22           6.52         0.0250         1         11/18/22         11/20/22           4.32         0.0250         1         11/18/22         11/20/22           2.70         0.0250         1         11/18/22         11/20/22           6.54         0.0500         1         11/18/22         11/20/22           9.24         0.0250         1         11/18/22         11/20/22           mg/kg         mg/kg         Analyst: RKS           142         20.0         1         11/18/22         11/20/22           mg/kg         mg/kg         Analyst: RKS           142         20.0         1         11/18/22         11/20/22           mg/kg         mg/kg         Analyst: RAS           1660         125         5         11/18/22         11/19/22           522         250         5         11/18/22         11/19/22



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-30'

		E211120-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109
Benzene	2.78	0.250	10	11/18/22	11/20/22	
Ethylbenzene	28.2	0.250	10	11/18/22	11/20/22	
Toluene	27.4	0.250	10	11/18/22	11/20/22	
o-Xylene	12.4	0.250	10	11/18/22	11/20/22	
p,m-Xylene	27.8	0.500	10	11/18/22	11/20/22	
Total Xylenes	40.2	0.250	10	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		111 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	527	200	10	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.1 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	6370	500	20	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	2140	1000	20	11/18/22	11/19/22	
Surrogate: n-Nonane		182 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: KL		Batch: 2247114
Chloride	40.8	20.0	1	11/18/22	11/19/22	



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

### CB-1-35'

		E211120-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109
Benzene	2.78	0.250	10	11/18/22	11/20/22	
Ethylbenzene	25.0	0.250	10	11/18/22	11/20/22	
Toluene	24.4	0.250	10	11/18/22	11/20/22	
o-Xylene	11.4	0.250	10	11/18/22	11/20/22	
p,m-Xylene	26.6	0.500	10	11/18/22	11/20/22	
Total Xylenes	37.9	0.250	10	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		111 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	632	200	10	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	4930	500	20	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	1680	1000	20	11/18/22	11/19/22	
Surrogate: n-Nonane		154 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-40'

E211120-07						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109
Benzene	2.53	0.250	10	11/18/22	11/21/22	
Ethylbenzene	30.6	0.250	10	11/18/22	11/21/22	
Toluene	23.7	0.250	10	11/18/22	11/21/22	
o-Xylene	13.4	0.250	10	11/18/22	11/21/22	
p,m-Xylene	31.1	0.500	10	11/18/22	11/21/22	
Total Xylenes	44.6	0.250	10	11/18/22	11/21/22	
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	11/18/22	11/21/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	689	200	10	11/18/22	11/21/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	11/18/22	11/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	5650	500	20	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	1780	1000	20	11/18/22	11/19/22	
Surrogate: n-Nonane		160 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-45'

#### E211120-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2247109
Benzene	1.25	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	12.1	0.0250	1	11/18/22	11/20/22	
Toluene	12.5	0.0250	1	11/18/22	11/20/22	
o-Xylene	4.33	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	10.4	0.0500	1	11/18/22	11/20/22	
Total Xylenes	14.7	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		107 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2247109
Gasoline Range Organics (C6-C10)	244	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2247112
Diesel Range Organics (C10-C28)	2320	250	10	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	775	500	10	11/18/22	11/19/22	
Surrogate: n-Nonane		139 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	_



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-50'

		E211120-09				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2247109
Benzene	0.959	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	7.56	0.0250	1	11/18/22	11/20/22	
Toluene	8.11	0.0250	1	11/18/22	11/20/22	
o-Xylene	2.63	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	6.55	0.0500	1	11/18/22	11/20/22	
Total Xylenes	9.19	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	173	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	1690	125	5	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	538	250	5	11/18/22	11/20/22	
Surrogate: n-Nonane		114 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-55'

E21			

	Reporting				
Result	Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2247109
0.490	0.0250	1	11/18/22	11/20/22	
5.79	0.0250	1	11/18/22	11/20/22	
5.47	0.0250	1	11/18/22	11/20/22	
2.06	0.0250	1	11/18/22	11/20/22	
5.19	0.0500	1	11/18/22	11/20/22	
7.25	0.0250	1	11/18/22	11/20/22	
	101 %	70-130	11/18/22	11/20/22	
mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2247109
131	20.0	1	11/18/22	11/20/22	
	99.3 %	70-130	11/18/22	11/20/22	
mg/kg	mg/kg	Ar	Analyst: RAS		Batch: 2247112
1230	125	5	11/18/22	11/20/22	
419	250	5	11/18/22	11/20/22	
	101 %	50-200	11/18/22	11/20/22	
mg/kg	101 % mg/kg		11/18/22 nalyst: KL	11/20/22	Batch: 2247114
	mg/kg 0.490 5.79 5.47 2.06 5.19 7.25  mg/kg 131	Result         Limit           mg/kg         mg/kg           0.490         0.0250           5.79         0.0250           5.47         0.0250           2.06         0.0250           5.19         0.0500           7.25         0.0250           101 %           mg/kg         mg/kg           131         20.0           99.3 %         mg/kg           mg/kg         mg/kg           1230         125	Result         Limit         Dilution           mg/kg         mg/kg         Ar           0.490         0.0250         1           5.79         0.0250         1           5.47         0.0250         1           2.06         0.0250         1           5.19         0.0500         1           7.25         0.0250         1           101 %         70-130           mg/kg         mg/kg         Ar           131         20.0         1           99.3 %         70-130           mg/kg         mg/kg         Ar           1230         125         5	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           0.490         0.0250         1         11/18/22           5.79         0.0250         1         11/18/22           5.47         0.0250         1         11/18/22           2.06         0.0250         1         11/18/22           5.19         0.0500         1         11/18/22           7.25         0.0250         1         11/18/22           mg/kg         70-130         11/18/22           mg/kg         mg/kg         Analyst: RKS           131         20.0         1         11/18/22           mg/kg         mg/kg         Analyst: RAS           1230         125         5         11/18/22	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           0.490         0.0250         1         11/18/22         11/20/22           5.79         0.0250         1         11/18/22         11/20/22           5.47         0.0250         1         11/18/22         11/20/22           2.06         0.0250         1         11/18/22         11/20/22           5.19         0.0500         1         11/18/22         11/20/22           7.25         0.0250         1         11/18/22         11/20/22           mg/kg         mg/kg         Analyst: RKS           131         20.0         1         11/18/22         11/20/22           mg/kg         mg/kg         Analyst: RKS         11/18/22         11/20/22           mg/kg         mg/kg         Analyst: RKS         11/20/22



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-60'

		E211120-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2247109
Benzene	0.352	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	5.97	0.0250	1	11/18/22	11/20/22	
Toluene	5.08	0.0250	1	11/18/22	11/20/22	
o-Xylene	2.14	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	5.35	0.0500	1	11/18/22	11/20/22	
Total Xylenes	7.49	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	130	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.3 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	1020	125	5	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	353	250	5	11/18/22	11/20/22	
Surrogate: n-Nonane		107 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



Analyte

Benzene

Toluene

o-Xylene

Chloride

### **Sample Data**

EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-65' E211120-12

#### Reporting Result Limit Dilution Prepared Analyzed Notes mg/kg mg/kg Analyst: RKS Batch: 2247109 Volatile Organics by EPA 8021B 11/18/22 11/20/22 ND 0.025011/20/22 1 11/18/22 Ethylbenzene 0.281 0.025011/18/22 11/20/22 0.167 0.0250 1 1 11/18/22 11/20/22 0.124 0.0250 0.298 0.0500 1 11/18/22 11/20/22 p,m-Xylene 11/18/22 11/20/22 1 0.4230.0250Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID		107 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0		1 11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.0 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	187	25.0		1 11/18/22	11/20/22	
Oil Range Organics (C28-C36)	72.4	50.0		1 11/18/22	11/20/22	
Surrogate: n-Nonane		102 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: KL		Batch: 2247114

20.0

11/18/22

11/19/22

ND



### Sample Data

EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-70'

		E211120-13				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	0.138	0.0250	1	11/18/22	11/20/22	
Toluene	0.0414	0.0250	1	11/18/22	11/20/22	
o-Xylene	0.0643	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	0.125	0.0500	1	11/18/22	11/20/22	
Total Xylenes	0.189	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.0 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	256	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	94.6	50.0	1	11/18/22	11/20/22	
Surrogate: n-Nonane		102 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-1-75'

#### E211120-14

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	0.0932	0.0250	1	11/18/22	11/20/22	
Toluene	0.0258	0.0250	1	11/18/22	11/20/22	
o-Xylene	0.0474	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	0.0999	0.0500	1	11/18/22	11/20/22	
Total Xylenes	0.147	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.1 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	288	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	119	50.0	1	11/18/22	11/20/22	
Surrogate: n-Nonane		102 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: KL		Batch: 2247114
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EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-2-10'

E21	-1	4	2	n.	4	_

		D '				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Limit	Dilution	гтератей	Ananyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	ND	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.8 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/20/22	
Surrogate: n-Nonane		104 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: KL		Batch: 2247114
· · · · · · · · · · · · · · · · · · ·	1890	20.0		11/18/22	11/19/22	



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-2-15'

		E211120-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	ND	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.1 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/20/22	
Surrogate: n-Nonane		109 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: KL		Batch: 2247114
Chloride	1230	20.0	1	11/18/22	11/19/22	



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-2-20'

		E211120-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	ND	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.7 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/20/22	
Surrogate: n-Nonane		101 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: KL		Batch: 2247114
Chloride	3740	40.0	2	11/18/22	11/19/22	



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-2-25'

#### E211120-18

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109
Benzene	16.0	0.250	10	11/18/22	11/20/22	
Ethylbenzene	63.8	0.250	10	11/18/22	11/20/22	
Toluene	79.3	0.250	10	11/18/22	11/20/22	
o-Xylene	21.7	0.250	10	11/18/22	11/20/22	
p,m-Xylene	52.8	0.500	10	11/18/22	11/20/22	
Total Xylenes	74.5	0.250	10	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	1200	200	10	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	8700	500	20	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	2840	1000	20	11/18/22	11/20/22	
Surrogate: n-Nonane		240 %	50-200	11/18/22	11/20/22	S4
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: KL		Batch: 2247114
Chloride	739	20.0	1	11/18/22	11/19/22	



### Sample Data

EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-2-30'

		E211120-19							
Reporting									
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes			
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2247109			
Benzene	2.65	0.250	10	11/18/22	11/20/22				
Ethylbenzene	31.9	0.250	10	11/18/22	11/20/22				
Toluene	26.0	0.250	10	11/18/22	11/20/22				
o-Xylene	12.3	0.250	10	11/18/22	11/20/22				
p,m-Xylene	30.0	0.500	10	11/18/22	11/20/22				
Total Xylenes	42.3	0.250	10	11/18/22	11/20/22				
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/18/22	11/20/22				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: RKS		Batch: 2247109			
Gasoline Range Organics (C6-C10)	710	200	10	11/18/22	11/20/22				
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130	11/18/22	11/20/22				
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: RAS		Batch: 2247112			
Diesel Range Organics (C10-C28)	5450	500	20	11/18/22	11/20/22				
Oil Range Organics (C28-C36)	1780	1000	20	11/18/22	11/20/22				
Surrogate: n-Nonane		162 %	50-200	11/18/22	11/20/22				
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: KL		Batch: 2247114			
Chloride	1120	20.0	1	11/18/22	11/19/22				



Anions by EPA 300.0/9056A

Chloride

### **Sample Data**

EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-2-35'

		E211120-20							
Reporting									
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes			
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109			
Benzene	5.21	0.250	10	11/18/22	11/20/22				
Ethylbenzene	36.9	0.250	10	11/18/22	11/20/22				
Toluene	37.1	0.250	10	11/18/22	11/20/22				
o-Xylene	13.7	0.250	10	11/18/22	11/20/22				
p,m-Xylene	33.4	0.500	10	11/18/22	11/20/22				
Total Xylenes	47.1	0.250	10	11/18/22	11/20/22				
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/18/22	11/20/22				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: RKS		Batch: 2247109			
Gasoline Range Organics (C6-C10)	801	200	10	11/18/22	11/20/22				
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	11/18/22	11/20/22				
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: RAS		Batch: 2247112			
Diesel Range Organics (C10-C28)	5800	500	20	11/18/22	11/20/22				
Oil Range Organics (C28-C36)	1900	1000	20	11/18/22	11/20/22				
Surrogate: n-Nonane		167 %	50-200	11/18/22	11/20/22				

mg/kg

20.0

mg/kg

1520

Analyst: KL

1

11/18/22

11/19/22



Batch: 2247114

EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-2-40'

<b>E2</b>		

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: IY		Batch: 2247076
Benzene	4.12	0.250	10	11/18/22	11/20/22	
Ethylbenzene	19.7	0.250	10	11/18/22	11/20/22	
Toluene	24.8	0.250	10	11/18/22	11/20/22	
o-Xylene	6.91	0.250	10	11/18/22	11/20/22	
p,m-Xylene	17.3	0.500	10	11/18/22	11/20/22	
Total Xylenes	24.2	0.250	10	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: IY		Batch: 2247076
Gasoline Range Organics (C6-C10)	423	200	10	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.2 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: RAS		Batch: 2247111
Diesel Range Organics (C10-C28)	3060	250	10	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	1410	500	10	11/18/22	11/19/22	
Surrogate: n-Nonane		132 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A	056A mg/kg mg/kg Analyst: KL			Batch: 2247115		
Chloride	6280	100	5	11/18/22	11/19/22	_



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-2-45'

#### E211120-22

	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analyst	: IY		Batch: 2247076
15.9	0.250	10	11/18/22	11/20/22	
52.9	0.250	10	11/18/22	11/20/22	
61.3	0.250	10	11/18/22	11/20/22	
18.7	0.250	10	11/18/22	11/20/22	
44.4	0.500	10	11/18/22	11/20/22	
63.1	0.250	10	11/18/22	11/20/22	
	104 %	70-130	11/18/22	11/20/22	
mg/kg	mg/kg	Analyst	: IY		Batch: 2247076
1040	200	10	11/18/22	11/20/22	
	93.3 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO mg/kg		g Analyst: RAS			Batch: 2247111
11300	1250	50	11/18/22	11/20/22	
		50 50	11/18/22 11/18/22	11/20/22 11/20/22	
11300	1250				S4
11300	1250 2500	50	11/18/22	11/20/22	S4 Batch: 2247115
	mg/kg 15.9 52.9 61.3 18.7 44.4 63.1 mg/kg 1040	mg/kg         mg/kg           15.9         0.250           52.9         0.250           61.3         0.250           18.7         0.250           44.4         0.500           63.1         0.250           104 %           mg/kg         mg/kg           1040         200           93.3 %	Result         Limit         Dilution           mg/kg         mg/kg         Analyst           15.9         0.250         10           52.9         0.250         10           61.3         0.250         10           18.7         0.250         10           44.4         0.500         10           63.1         0.250         10           104 %         70-130           mg/kg         mg/kg         Analyst           1040         200         10	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           15.9         0.250         10         11/18/22           52.9         0.250         10         11/18/22           61.3         0.250         10         11/18/22           18.7         0.250         10         11/18/22           44.4         0.500         10         11/18/22           63.1         0.250         10         11/18/22           mg/kg         mg/kg         Analyst: IY           104%         70-130         11/18/22           93.3%         70-130         11/18/22	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           15.9         0.250         10         11/18/22         11/20/22           52.9         0.250         10         11/18/22         11/20/22           61.3         0.250         10         11/18/22         11/20/22           18.7         0.250         10         11/18/22         11/20/22           44.4         0.500         10         11/18/22         11/20/22           63.1         0.250         10         11/18/22         11/20/22           104 %         70-130         11/18/22         11/20/22           mg/kg         mg/kg         Analyst: IY           1040         200         10         11/18/22         11/20/22



EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

#### CB-2-50'

E211120-23									
Reporting									
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes			
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: IY		Batch: 2247076			
Benzene	7.24	0.250	10	11/18/22	11/20/22				
Ethylbenzene	27.4	0.250	10	11/18/22	11/20/22				
Гoluene	34.1	0.250	10	11/18/22	11/20/22				
o-Xylene	9.27	0.250	10	11/18/22	11/20/22				
p,m-Xylene	22.1	0.500	10	11/18/22	11/20/22				
Total Xylenes	31.4	0.250	10	11/18/22	11/20/22				
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	11/18/22	11/20/22				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2247076			
Gasoline Range Organics (C6-C10)	524	200	10	11/18/22	11/20/22				
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.2 %	70-130	11/18/22	11/20/22				
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS			Batch: 2247111			
Diesel Range Organics (C10-C28)	5280	500	20	11/18/22	11/19/22				
Oil Range Organics (C28-C36)	2790	1000	20	11/18/22	11/19/22				
Surrogate: n-Nonane		166 %	50-200	11/18/22	11/19/22				
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: KL		Batch: 2247115			
Chloride	188	20.0	1	11/18/22	11/19/22				



EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Artesia NM, 88210		Project Number: Project Manager:		oshghan Man	soori			11	/21/2022 2:41:29PM	
Volatile Organics by EPA 8021B										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2247076-BLK1)							Prepared: 1	1/17/22 Ana	alyzed: 11/18/22	
Benzene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Toluene	ND	0.0250								
o-Xylene	ND	0.0250								
o,m-Xylene	ND	0.0500								
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103	70-130				
LCS (2247076-BS1)							Prepared: 1	1/17/22 Ana	alyzed: 11/18/22	
Benzene	5.93	0.0250	5.00		119	70-130				
Ethylbenzene	4.57	0.0250	5.00		91.3	70-130				
Toluene	4.96	0.0250	5.00		99.2	70-130				
-Xylene	4.63	0.0250	5.00		92.7	70-130				
o,m-Xylene	9.26	0.0500	10.0		92.6	70-130				
Total Xylenes	13.9	0.0250	15.0		92.6	70-130				
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	70-130				
LCS Dup (2247076-BSD1)							Prepared: 1	1/17/22 Ana	alyzed: 11/18/22	
Benzene	5.91	0.0250	5.00		118	70-130	0.325	20		
Ethylbenzene	4.57	0.0250	5.00		91.5	70-130	0.161	20		
Toluene	4.93	0.0250	5.00		98.7	70-130	0.557	20		
-Xylene	4.67	0.0250	5.00		93.4	70-130	0.819	20		
o,m-Xylene	9.28	0.0500	10.0		92.8	70-130	0.221	20		
Total Xylenes	14.0	0.0250	15.0		93.0	70-130	0.421	20		
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105	70-130				



EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Artesia NM, 88210		Project Number: Project Manager:		oshghan Man	soori			11/	21/2022 2:41:29PN
		Volatile Organics by EPA 8021B						Analyst: RKS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2247109-BLK1)							Prepared: 1	1/18/22 Anal	yzed: 11/19/22
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			
LCS (2247109-BS1)							Prepared: 1	1/18/22 Anal	yzed: 11/19/22
Benzene	6.10	0.0250	5.00		122	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.7	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	4.81	0.0250	5.00		96.3	70-130			
o,m-Xylene	9.65	0.0500	10.0		96.5	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.24		8.00		103	70-130			
LCS Dup (2247109-BSD1)							Prepared: 1	1/18/22 Anal	yzed: 11/19/22
Benzene	6.21	0.0250	5.00		124	70-130	1.65	20	
Ethylbenzene	4.83	0.0250	5.00		96.6	70-130	1.91	20	
Toluene	5.18	0.0250	5.00		104	70-130	1.75	20	
o-Xylene	4.91	0.0250	5.00		98.2	70-130	2.02	20	
o,m-Xylene	9.83	0.0500	10.0		98.3	70-130	1.86	20	
Total Xylenes	14.7	0.0250	15.0		98.3	70-130	1.92	20	
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			



EOG ResourcesProject Name:Jackson B#57Reported:104 South 4th StreetProject Number:19034-0001Artesia NM, 88210Project Manager:Moshghan Mansoori11/21/20222:41:29PM

Nonhalogenated	Organics	by EPA	8015D -	GRO

Anal	yst:	I
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Analyte Re	Reporting Sult Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg	/kg mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2247076-BLK1)						Prepared: 11	/17/22	Analyzed: 11/18/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.50		8.00	81.2	70-130			
LCS (2247076-BS2)						Prepared: 11	/17/22	Analyzed: 11/18/22
Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	95.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.48		8.00	80.9	70-130			
LCS Dup (2247076-BSD2)						Prepared: 11	/17/22	Analyzed: 11/18/22
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	97.7	70-130	2.09	20	
Surrogate: 1-Chloro-4-fluorohenzene-FID	6.60		8.00	82.5	70-130			



EOG ResourcesProject Name:Jackson B#57Reported:104 South 4th StreetProject Number:19034-0001Artesia NM, 88210Project Manager:Moshghan Mansoori11/21/20222:41:29PM

Nonhalogenated	Organics by	v EPA	.8015D -	GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2247109-BLK1)						Prepared: 11	/18/22 A	nalyzed: 11/19/22
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.52		8.00	81.5	70-130			
LCS (2247109-BS2)						Prepared: 11	/18/22 A	nalyzed: 11/19/22
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.36		8.00	79.5	70-130			
LCS Dup (2247109-BSD2)						Prepared: 11	/18/22 A	nalyzed: 11/19/22
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	96.7	70-130	1.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00	84.1	70-130			



EOG ResourcesProject Name:Jackson B#57Reported:104 South 4th StreetProject Number:19034-0001Artesia NM, 88210Project Manager:Moshghan Mansoori11/21/20222:41:29PM

	Project Manager	r: IVIC	osngnan ivians	30011			1	.1/21/2022 2.41.29FN
Nonha	logenated Or		Analyst: RAS					
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 1	1/18/22 Ar	nalyzed: 11/19/22
ND	25.0							
ND	50.0							
53.2		50.0		106	50-200			
						Prepared: 1	1/18/22 Ar	nalyzed: 11/19/22
271	25.0	250		108	38-132			
52.5		50.0		105	50-200			
			Source: 1	E211121-(	)5	Prepared: 1	1/18/22 Ar	nalyzed: 11/19/22
270	25.0	250	ND	108	38-132			
52.7		50.0		105	50-200			
			Source: 1	E211121-(	)5	Prepared: 1	1/18/22 Ar	nalyzed: 11/19/22
		250	3.15	105	20.122	0.062	20	
268	25.0	250	ND	107	38-132	0.963	20	
	Result mg/kg  ND ND 53.2  271 52.5  270 52.7	Nonhalogenated Organization   Result   Reporting   Limit   mg/kg	Nonhalogenated Organics by	Nonhalogenated Organics by EPA 8015D	Nonhalogenated Organics by EPA 8015D - DRO   Result   Reporting   Limit   Level   Result   Rec   mg/kg   mg/kg   mg/kg   mg/kg   %	Nonhalogenated Organics by EPA 8015D - DRO/ORO   Result   Reporting   Limit   Level   Result   Rec   Limits   mg/kg   mg/kg   mg/kg   %   %   %	Nonhalogenated Organics by EPA 8015D - DRO/ORO   Result   Reporting   Limit   Level   Result   Rec   Limits   RPD   mg/kg   mg/kg   mg/kg   %   %   %   %   %   %   %   %   %	Result

### **QC Summary Data**

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	-
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Artesia NM, 88210		Project Manage	r: M	oshghan Man	soori			11/2	:1/2022 2:41:29PM
	Nonhal	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO		F	Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2247112-BLK1)							Prepared: 1	1/18/22 Anal	zed: 11/19/22
riesel Range Organics (C10-C28)	ND	25.0							
ril Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	47.7		50.0		95.3	50-200			
.CS (2247112-BS1)							Prepared: 1	1/18/22 Anal	zed: 11/19/22
riesel Range Organics (C10-C28)	241	25.0	250		96.5	38-132			
urrogate: n-Nonane	48.0		50.0		95.9	50-200			
Matrix Spike (2247112-MS1)				Source:	E211120-0	08	Prepared: 1	1/18/22 Anal	zed: 11/20/22
riesel Range Organics (C10-C28)	2800	250	250	2320	191	38-132			M2
urrogate: n-Nonane	55.8		50.0		112	50-200			
Matrix Spike Dup (2247112-MSD1)				Source:	E211120-0	08	Prepared: 1	1/18/22 Anal	zed: 11/20/22
tiesel Range Organics (C10-C28)	3010	250	250	2320	274	38-132	7.20	20	M2
urrogate: n-Nonane	62.2		50.0		124	50-200			



Matrix Spike Dup (2247114-MSD1)

Chloride

### **QC Summary Data**

EOG Resources 104 South 4th Street	Project Name: Project Number:	Jackson B#57 19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Artesia Nivi, 88210		Froject Manager	1. IVI	osiigiiaii iviaii	SOOII			1	1/21/2022 2.41.291 WI
		Anions	by EPA 3	00.0/9056	4				Analyst: KL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2247114-BLK1)							Prepared: 1	1/18/22 An	alyzed: 11/19/22
Chloride	ND	20.0							
LCS (2247114-BS1)							Prepared: 1	1/18/22 An	alyzed: 11/19/22
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2247114-MS1)				Source:	E211120-0	01	Prepared: 1	1/18/22 An	alyzed: 11/19/22
Chloride	506	20.0	250	242	105	80-120			

250

20.0

Source: E211120-01

106

80-120

0.418

242



Prepared: 11/18/22 Analyzed: 11/19/22

20

### **QC Summary Data**

EOG Resources 104 South 4th Street		Project Name:		ckson B#57					Reported:
Artesia NM, 88210		Project Number: Project Manager:		oshghan Man	soori				11/21/2022 2:41:29PM
		Anions	by EPA 3	00.0/9056	4				Analyst: KL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2247115-BLK1)							Prepared:	11/18/22 A	Analyzed: 11/19/22
Chloride	ND	20.0							
LCS (2247115-BS1)							Prepared:	11/18/22 A	Analyzed: 11/19/22
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2247115-MS1)				Source:	E211110-0	1	Prepared:	11/18/22 A	Analyzed: 11/19/22
Chloride	267	20.0	250	ND	107	80-120			
Matrix Spike Dup (2247115-MSD1)				Source:	E211110-0	1	Prepared:	11/18/22 A	Analyzed: 11/19/22
Chloride	265	20.0	250	ND	106	80-120	0.601	20	

#### QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



#### **Definitions and Notes**

Γ	EOG Resources	Project Name:	Jackson B#57	
l	104 South 4th Street	Project Number:	19034-0001	Reported:
l	Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/22 14:41

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

S4 Surrogate spike recovery was outside acceptance limits. Sample was reanalyzed with similar results. LCS spike recovery was

cceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Client: EOG Resources			RUSH	ı3 [							.1 >	
Project: Jackson B#57		-		ld	Lab Use Only	100 10		Ana	lysis and	Method	la	lab Only
Sampler: J.T. Murrey	97.0				211126							Z
Phone: 361-252-6136												(s) Y,
$Email(s): moshghan.mansoori@ghd.com; amber\_griffin@eogresources.com; challed the contract of$	ase_settle@eogresources.	.com			Job Number	// 8015			300.0			rsrv
Project Manager: Moshghan Mansoori			— P:	age of	0,00	<u>ه</u> ار	3021	18.1	30 30			er ont/P
Sample ID	Sample Date	Sample Time	Matrix	(	Containers	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by			Lab Number Correct Cont/Prsrv (s) Y/N
CB-1-10'	11/15/2022	11:08	SO	1 - 4 OZ/GLA	YPE/Preservative	X	X X	T T	5 X			를 <u>등</u>
CB-1-15'	11/15/2022	11:14	so	1 - 4 OZ/GLA		X	X		X			2
CB-1-20'	11/15/2022	11:14	so	1 - 4 OZ/GLA		X	X		X			2
CB-1-25'	11/15/2022	11:15	SO	1 - 4 OZ/GLA:		X	X		X			3
CB-1-30'	11/15/2022	11:15	SO	1 - 4 OZ/GLAS		X	X		X			4
CB-1-35'	11/15/2022	11:16	SO	1 - 4 OZ/GLAS		X	X		X			5
CB-1-40'	11/15/2022	11:16	SO	1 - 4 OZ/GLAS		X	X					9
CB-1-45'	11/15/2022	11:17	SO	1 - 4 OZ/GLAS		X	X		X			
CB-1-50'	11/15/2022	11:17	so	1 - 4 OZ/GLAS		X	X		X		Q	8
CB-1-55'	11/15/2022	11:17	SO	1 - 4 OZ/GLAS	500K/17 2000/89/20				X			
Relinquished by: (Signature)  Date  Time		y (Signature)		Date	Time	X	X		X Lab Us	se Only	10	2
Relinquished by: (Signature)  Relinquished by: (Signature)  Date  Time	Received b	y: (Signature)	1	11/18/22 Date	10:00 Time	**Recei	ved or	n Ice(Y	) N T2		Т3	
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Ten	np °C_	4				
		V VO. 0			Container Type:	g - glass, p	- poly	/plasti	c, <b>ag</b> - ar	nber glass, v	- VOA	
*Samples requiring thermal preservation must be received on ice the day they are Sample(s) dropped off after hours to a secure drop off area.	sampled or received pac					i.					Control of the Contro	
_		Chain of (	Lustody	Notes/Billing	info:							
envirotech		5706 US Wighway 64	F	1								
Analytical Laboratory		5796 US Highway 64, I Three Springs • 65 Mer		401 15, Durango, (O 81301		9615 Fx (505) 63 9615 Fr (800) 36				laboratory Co.	trotech-inc.com	

Received by OCD: 11/1/2023 4:54:09 PM

Client: EOG Resources			RUSH	? Lab Use Only							
Project: Jackson B#57		-		eas ose omy			Anal	ysis and Met	:hod	lab (	Only
Sampler: J.T. Murrey			X 3	Lub WOH							z
Phone: 361-252-6136											s) Y/
$Email(s): moshghan.mansoori@ghd.com; amber\_griffin@eogresources.com; characteristics and the properties of the propert$	se_settle@eogresources.	com		Job Number	8015			300.0			Correct Cont/Prsrv (s) Y/N
Project Manager: Moshghan Mansoori		2001-00-0		age of	- h	021	8.1	by 30		ت	nt/P
Sample ID		Sample	Matrix		ORC	8 /c	v 41	de b		a de	00
	Sample Date	Time	iviatrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by	BTEX by 8021	TPH by 418.1	Chloride		Lab Number	orrect
CB-1-60'	11/15/2022	11:18	so	1 - 4 OZ/GLASS/NON	X	X		х		111	0
CB-1-65'	11/15/2022	11:18	SO	1 - 4 OZ/GLASS/NON	X	X		X		12	
CB-1-70'	11/15/2022	11:18	so	1 - 4 OZ/GLASS/NON	X	X		X			-
CB-1-75'	11/15/2022	11:19	so	1 - 4 OZ/GLASS/NON	X	X		X		13	
CB-2-10'	11/15/2022	10:43	so	1 - 4 OZ/GLASS/NON	X	X		x		15	
CB-2-15'	11/15/2022	10:45	so	I - 4 OZ/GLASS/NON	X	X		X			-
CB-2-20'	11/15/2022	10:45	so	1 - 4 OZ/GLASS/NON	X	Х		X		10	
CB-2-25'	11/15/2022	10:46	so	1 - 4 OZ/GLASS/NON	X	X		X		18	
CB-2-30'	11/15/2022	10:47	SO	1 - 4 OZ/GLASS/NON	X	X		X		19	
CB-2-35'	11/15/2022	10:47	SO	1 - 4 OZ/GLASS/NON	X	X		X			
Relinquished by: (Signature)  Date  Time  11-1(-72 3:40  Relinquished by: (Signature)  Date  Time	ali	y: (Signature) y: (Signature)	A		Receiv	ed on	Ice(Y	Lab Use O	nly	T3	
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other					G Tem						
Samples requiring thermal preservation must be received on ice the day they are Sample(s) dropped off after hours to a secure drop off area.	sampled or received pack	ked in ice at an	avg temp abo	Container Type: g - g	giass, <b>p</b>	- poly,	/plastic	:, ag - amber	glass, v - VO	Α	
Sample(s) dropped off after hours to a secure drop off area.	1990-1	Chain of C		Notes/Billing info:	-						
			astouy								
envirotech		796 US Highway 64, F.	Arminatas MII 67 III					-			
Analytical Laboratory				91 Ph (505) 632-0615 5, Durango, CO 81301 Ph (970) 259-0615	Carlos de la carlo				envirotech-i	nc.com	

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Client: EOG Resources Project: Jackson B#57			RUSH	?	Lab Use Only	J. Britani		Ana	lysis and Method		lab Only
The state of the s			10	d	Lab WO#	THE STATE OF	1			T	
Sampler: J.T. Murrey			30	b	Р						Z
Phone: 361-252-6136					Job Number						(s)
Email(s): moshghan.mansoori@ghd.com; amber_griffin@eogresources.com; cl	nase_settle@eogresources.	com			Job Number	8015			300.0		rsrv
Project Manager: Moshghan Mansoori			— Pa	ge	of		3021	18.1	30 30		er ont/P
Sample ID	Sample Date	Sample	Matrix	1	Containers	GRO/DRO by	BTEX by 8021	TPH by 418.1	Chloride by		Lab Number Correct Cont/Prsrv (s) Y/N
- 1 - 100 1 50 0000	Jampie Date	Time	<u> </u>	0	TY - Vol/TYPE/Preservative	GRO	BTE	TPH	Cho		ab N
CB-2-40'	11/15/2022	10:47	so	1 - 4	OZ/GLASS/NON	X	X		X		21
CB-2-45'	11/15/2022	10:47	so	1 - 4	OZ/GLASS/NON	X	X		x		22
CB-2-50'	11/15/2022	10:48	SO	1 - 4	OZ/GLASS/NON	X					
			00		OZ GLASS/NON	X	X		X		23
	_										
											-
	_										
		_									
Relinquished by: (Signature) Date Time											
Date Time 11-16-22 3:40	_ neceived b	y: (Signature)			Date Time				Lab Use Only		
Relinquished by: (Signature) Date Time		y: (Signature)			8/22 10:00	**Receiv	ed on	Ic€ Y	УN		
	neceived b	y. (Signature)			Date Time	T1		11	T2	T3	
ample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other					Containes T.	AVG Tem		4		Military and a	
Samples requiring thermal preservation must be received on ice the day they a	re sampled or received pack	ked in ice at an a	avg temp abov	ve 0 but	less than 6°C on subsequent days	g - glass, p	- poly	/plasti	ic, <b>ag</b> - amber glass, v	- VOA	
Sample(s) dropped off after hours to a secure drop off area.		Chain of C	ustody		otes/Billing info:						
envirotech	5	796 US Highway 64, Fa	tmington, NM 8740	))	Ph (\$0\$) 623 0	GIS EVICADION	1045				
Analytical Laboratory		796 US Highway 64, Fa hree Springs • 65 Merc			Ph (505) 632-0 (O.81301 Ph (970) 259-0	615 Fx (505) 632 515 Fr (800) 362			en	virotech-inc.com	

Printed: 11/18/2022 10:21:26AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	EOG Resources	Date Received:	11/18/22	10:00		Work Order ID:	E211120	
Phone:	(575) 748-4217	Date Logged In:	11/18/22	09:59		Logged In By:	Alexa Michaels	
Email:		Due Date:	11/21/22	2 17:00 (1 day TAT)				
Chain of (	Custody (COC)							
	e sample ID match the COC?		Yes					
	e number of samples per sampling site location mat	ch the COC	Yes					
	mples dropped off by client or carrier?		Yes	Carrier: <u>F</u>	ed Ev			
	COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	carrer. <u>r</u>	<u>cu Lx</u>			
	samples received within holding time?	•	Yes					
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion			г		Commen	ts/Resolution	
Sample Tu	urn Around Time (TAT)							
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes					
Sample Co								
	ample cooler received?		Yes					
•	vas cooler received in good condition?		Yes					
9. Was the	sample(s) received intact, i.e., not broken?		Yes					
10. Were c	sustody/security seals present?		No					
11. If yes,	were custody/security seals intact?		NA					
	sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling isible ice, record the temperature. Actual sample	received w/i 15	Yes					
Sample Co		<u></u>	_					
	ueous VOC samples present?		No					
-	OC samples collected in VOA Vials?		NA					
	nead space less than 6-8 mm (pea sized or less)?		NA					
	trip blank (TB) included for VOC analyses?		NA					
	n-VOC samples collected in the correct containers?		Yes					
	ppropriate volume/weight or number of sample contain		Yes					
Field Lab	· · · · · · · · · · · · · · · · · · ·							
20. Were f	— ield sample labels filled out with the minimum info	rmation:						
Sa	mple ID?		Yes					
	tte/Time Collected?		Yes	L				
	ollectors name?		No					
	reservation	10	3.7					
	he COC or field labels indicate the samples were pr	eserved?	No					
	mple(s) correctly preserved? ilteration required and/or requested for dissolved m	otolo?	NA Na					
	1	etais?	No					
	se Sample Matrix	2						
	he sample have more than one phase, i.e., multiphas		No					
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA					
Subcontra	act Laboratory							
28. Are sai	mples required to get sent to a subcontract laborator	y?	No					
20 11/00 0	subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	: NA			
29. was a								

Date



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

January 21, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086

**FAX** 

RE: Jackson B 57 OrderNo.: 2201360

#### Dear Tom Larson:

Hall Environmental Analysis Laboratory received 23 sample(s) on 1/11/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-10

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 8:20:00 AM

 Lab ID:
 2201360-001
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	86	60		mg/Kg	20	1/11/2022 10:10:02 PM	64966
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	3800	170		mg/Kg	20	1/12/2022 11:24:39 AM	64960
Motor Oil Range Organics (MRO)	1200	850		mg/Kg	20	1/12/2022 11:24:39 AM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/12/2022 11:24:39 AM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	1200	24		mg/Kg	5	1/12/2022 9:12:54 AM	64950
Surr: BFB	1110	70-130	S	%Rec	5	1/12/2022 9:12:54 AM	64950
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	3.3	0.12		mg/Kg	5	1/12/2022 9:12:54 AM	64950
Toluene	64	2.4		mg/Kg	50	1/12/2022 9:21:32 PM	64950
Ethylbenzene	59	2.4		mg/Kg	50	1/12/2022 9:21:32 PM	64950
Xylenes, Total	68	0.49		mg/Kg	5	1/12/2022 9:12:54 AM	64950
Surr: 4-Bromofluorobenzene	304	70-130	S	%Rec	5	1/12/2022 9:12:54 AM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 27

Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-15

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 8:30:00 AM

 Lab ID:
 2201360-002
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	73	60		mg/Kg	20	1/12/2022 8:15:13 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	3700	190		mg/Kg	20	1/13/2022 12:47:09 PM	64960
Motor Oil Range Organics (MRO)	1100	970		mg/Kg	20	1/13/2022 12:47:09 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 12:47:09 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	1100	24		mg/Kg	5	1/12/2022 10:00:12 AM	64950
Surr: BFB	953	70-130	S	%Rec	5	1/12/2022 10:00:12 AM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	5.2	0.12		mg/Kg	5	1/12/2022 10:00:12 AM	64950
Toluene	68	2.4		mg/Kg	50	1/12/2022 9:44:56 PM	64950
Ethylbenzene	56	2.4		mg/Kg	50	1/12/2022 9:44:56 PM	64950
Xylenes, Total	61	0.48		mg/Kg	5	1/12/2022 10:00:12 AM	64950
Surr: 4-Bromofluorobenzene	284	70-130	S	%Rec	5	1/12/2022 10:00:12 AM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-20

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 8:35:00 AM

 Lab ID:
 2201360-003
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	79	60		mg/Kg	20	1/12/2022 8:52:27 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	6600	190		mg/Kg	20	1/13/2022 1:10:55 PM	64960
Motor Oil Range Organics (MRO)	2200	940		mg/Kg	20	1/13/2022 1:10:55 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:10:55 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	1800	23		mg/Kg	5	1/12/2022 10:47:04 AM	64950
Surr: BFB	1660	70-130	S	%Rec	5	1/12/2022 10:47:04 AM	64950
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	6.1	0.11		mg/Kg	5	1/12/2022 10:47:04 AM	64950
Toluene	96	2.3		mg/Kg	50	1/12/2022 10:08:18 PM	64950
Ethylbenzene	89	2.3		mg/Kg	50	1/12/2022 10:08:18 PM	64950
Xylenes, Total	97	4.6		mg/Kg	50	1/12/2022 10:08:18 PM	64950
Surr: 4-Bromofluorobenzene	390	70-130	S	%Rec	5	1/12/2022 10:47:04 AM	64950

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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-25

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 8:45:00 AM

 Lab ID:
 2201360-004
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	2000	60		mg/Kg	20	1/12/2022 9:04:51 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	4500	190		mg/Kg	20	1/13/2022 1:34:50 PM	64960
Motor Oil Range Organics (MRO)	1600	960		mg/Kg	20	1/13/2022 1:34:50 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:34:50 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	1400	25		mg/Kg	5	1/12/2022 11:10:34 AM	64950
Surr: BFB	1000	70-130	S	%Rec	5	1/12/2022 11:10:34 AM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	14	0.12		mg/Kg	5	1/12/2022 11:10:34 AM	64950
Toluene	99	2.5		mg/Kg	50	1/12/2022 10:31:35 PM	64950
Ethylbenzene	68	2.5		mg/Kg	50	1/12/2022 10:31:35 PM	64950
Xylenes, Total	67	4.9		mg/Kg	50	1/12/2022 10:31:35 PM	64950
Surr: 4-Bromofluorobenzene	294	70-130	S	%Rec	5	1/12/2022 11:10:34 AM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-30

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 8:55:00 AM

 Lab ID:
 2201360-005
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	2000	60		mg/Kg	20	1/12/2022 9:17:16 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	3900	190		mg/Kg	20	1/13/2022 1:58:45 PM	64960
Motor Oil Range Organics (MRO)	1400	940		mg/Kg	20	1/13/2022 1:58:45 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:58:45 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	1100	23		mg/Kg	5	1/12/2022 11:34:06 AM	64950
Surr: BFB	1080	70-130	S	%Rec	5	1/12/2022 11:34:06 AM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	2.9	0.11		mg/Kg	5	1/12/2022 11:34:06 AM	64950
Toluene	68	2.3		mg/Kg	50	1/12/2022 10:54:55 PM	64950
Ethylbenzene	61	2.3		mg/Kg	50	1/12/2022 10:54:55 PM	64950
Xylenes, Total	64	0.46		mg/Kg	5	1/12/2022 11:34:06 AM	64950
Surr: 4-Bromofluorobenzene	295	70-130	S	%Rec	5	1/12/2022 11:34:06 AM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-35

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 9:05:00 AM

 Lab ID:
 2201360-006
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	840	60		mg/Kg	20	1/12/2022 9:54:30 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	4800	170		mg/Kg	20	1/13/2022 2:22:47 PM	64960
Motor Oil Range Organics (MRO)	1700	870		mg/Kg	20	1/13/2022 2:22:47 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 2:22:47 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	1300	24		mg/Kg	5	1/12/2022 11:57:37 AM	64950
Surr: BFB	1140	70-130	S	%Rec	5	1/12/2022 11:57:37 AM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	5.5	0.12		mg/Kg	5	1/12/2022 11:57:37 AM	64950
Toluene	82	2.4		mg/Kg	50	1/12/2022 11:18:10 PM	64950
Ethylbenzene	66	2.4		mg/Kg	50	1/12/2022 11:18:10 PM	64950
Xylenes, Total	70	4.7		mg/Kg	50	1/12/2022 11:18:10 PM	64950
Surr: 4-Bromofluorobenzene	297	70-130	S	%Rec	5	1/12/2022 11:57:37 AM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-40

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 9:15:00 AM

 Lab ID:
 2201360-007
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	1100	60		mg/Kg	20	1/12/2022 10:06:54 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	SB
Diesel Range Organics (DRO)	3200	190		mg/Kg	20	1/13/2022 2:46:48 PM	64960
Motor Oil Range Organics (MRO)	1200	970		mg/Kg	20	1/13/2022 2:46:48 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 2:46:48 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	950	24		mg/Kg	5	1/12/2022 12:21:13 PM	64950
Surr: BFB	867	70-130	S	%Rec	5	1/12/2022 12:21:13 PM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	3.1	0.12		mg/Kg	5	1/12/2022 12:21:13 PM	64950
Toluene	61	2.4		mg/Kg	50	1/12/2022 11:41:25 PM	64950
Ethylbenzene	52	2.4		mg/Kg	50	1/12/2022 11:41:25 PM	64950
Xylenes, Total	52	0.49		mg/Kg	5	1/12/2022 12:21:13 PM	64950
Surr: 4-Bromofluorobenzene	252	70-130	S	%Rec	5	1/12/2022 12:21:13 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-45

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 9:25:00 AM

 Lab ID:
 2201360-008
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	JMT
Chloride	ND	60		mg/Kg	20	1/12/2022 10:19:19 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst:	JME
Diesel Range Organics (DRO)	4300	89		mg/Kg	10	1/13/2022 3:59:49 PM	64960
Motor Oil Range Organics (MRO)	1400	450		mg/Kg	10	1/13/2022 3:59:49 PM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/13/2022 3:59:49 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	2500	240		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Surr: BFB	232	70-130	S	%Rec	50	1/13/2022 12:04:36 AM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	52	1.2		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Toluene	170	2.4		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Ethylbenzene	95	2.4		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Xylenes, Total	93	4.8		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Surr: 4-Bromofluorobenzene	133	70-130	S	%Rec	50	1/13/2022 12:04:36 AM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated valu
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-50

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 9:35:00 AM

 Lab ID:
 2201360-009
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	JMT
Chloride	ND	60		mg/Kg	20	1/12/2022 10:31:43 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	8700	190		mg/Kg	20	1/13/2022 3:10:48 PM	64960
Motor Oil Range Organics (MRO)	3000	950		mg/Kg	20	1/13/2022 3:10:48 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 3:10:48 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	2700	240		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Surr: BFB	278	70-130	S	%Rec	50	1/13/2022 12:27:44 AM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	25	1.2		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Toluene	180	2.4		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Ethylbenzene	120	2.4		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Xylenes, Total	140	4.9		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Surr: 4-Bromofluorobenzene	142	70-130	S	%Rec	50	1/13/2022 12:27:44 AM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-55

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 9:45:00 AM

 Lab ID:
 2201360-010
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	61		mg/Kg	20	1/12/2022 10:44:08 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: JME
Diesel Range Organics (DRO)	1600	95		mg/Kg	10	1/14/2022 9:29:40 AM	64960
Motor Oil Range Organics (MRO)	560	470		mg/Kg	10	1/14/2022 9:29:40 AM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/14/2022 9:29:40 AM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	740	24		mg/Kg	5	1/12/2022 1:31:46 PM	64950
Surr: BFB	782	70-130	S	%Rec	5	1/12/2022 1:31:46 PM	64950
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	2.1	0.12		mg/Kg	5	1/12/2022 1:31:46 PM	64950
Toluene	37	2.4		mg/Kg	50	1/13/2022 12:50:58 AM	64950
Ethylbenzene	35	2.4		mg/Kg	50	1/13/2022 12:50:58 AM	64950
Xylenes, Total	40	0.49		mg/Kg	5	1/12/2022 1:31:46 PM	64950
Surr: 4-Bromofluorobenzene	225	70-130	S	%Rec	5	1/12/2022 1:31:46 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-60

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 9:55:00 AM

 Lab ID:
 2201360-011
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JMT
Chloride	ND	60	mg/Kg	20	1/12/2022 10:56:33 PM	l 64993
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	13	10	mg/Kg	1	1/12/2022 11:49:13 AM	1 64960
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/12/2022 11:49:13 AM	l 64960
Surr: DNOP	83.5	70-130	%Rec	1	1/12/2022 11:49:13 AM	l 64960
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	23	mg/Kg	5	1/12/2022 3:05:36 PM	64950
Surr: BFB	96.8	70-130	%Rec	5	1/12/2022 3:05:36 PM	64950
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	0.31	0.11	mg/Kg	5	1/12/2022 3:05:36 PM	64950
Toluene	0.26	0.23	mg/Kg	5	1/12/2022 3:05:36 PM	64950
Ethylbenzene	ND	0.23	mg/Kg	5	1/12/2022 3:05:36 PM	64950
Xylenes, Total	ND	0.46	mg/Kg	5	1/12/2022 3:05:36 PM	64950
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	5	1/12/2022 3:05:36 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-65

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 10:05:00 AM

 Lab ID:
 2201360-012
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	1/12/2022 11:08:58 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	SB
Diesel Range Organics (DRO)	11	10	mg/Kg	1	1/12/2022 12:01:09 PM	64960
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/12/2022 12:01:09 PM	64960
Surr: DNOP	103	70-130	%Rec	1	1/12/2022 12:01:09 PM	64960
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	1/12/2022 3:29:11 PM	64950
Surr: BFB	98.8	70-130	%Rec	5	1/12/2022 3:29:11 PM	64950
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.12	mg/Kg	5	1/12/2022 3:29:11 PM	64950
Toluene	ND	0.24	mg/Kg	5	1/12/2022 3:29:11 PM	64950
Ethylbenzene	ND	0.24	mg/Kg	5	1/12/2022 3:29:11 PM	64950
Xylenes, Total	ND	0.48	mg/Kg	5	1/12/2022 3:29:11 PM	64950
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	5	1/12/2022 3:29:11 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-70

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 10:10:00 AM

 Lab ID:
 2201360-013
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	1/12/2022 11:21:23 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/12/2022 12:13:12 PM	64960
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/12/2022 12:13:12 PM	64960
Surr: DNOP	86.5	70-130	%Rec	1	1/12/2022 12:13:12 PM	64960
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	25	mg/Kg	5	1/12/2022 3:52:48 PM	64950
Surr: BFB	99.4	70-130	%Rec	5	1/12/2022 3:52:48 PM	64950
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.12	mg/Kg	5	1/12/2022 3:52:48 PM	64950
Toluene	ND	0.25	mg/Kg	5	1/12/2022 3:52:48 PM	64950
Ethylbenzene	ND	0.25	mg/Kg	5	1/12/2022 3:52:48 PM	64950
Xylenes, Total	ND	0.49	mg/Kg	5	1/12/2022 3:52:48 PM	64950
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	5	1/12/2022 3:52:48 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A1-75

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 10:30:00 AM

 Lab ID:
 2201360-014
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	210	61		mg/Kg	20	1/12/2022 11:33:48 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	SB
Diesel Range Organics (DRO)	1700	96		mg/Kg	10	1/18/2022 10:37:58 AM	64960
Motor Oil Range Organics (MRO)	620	480		mg/Kg	10	1/18/2022 10:37:58 AM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/18/2022 10:37:58 AM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	200	24		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Surr: BFB	364	70-130	S	%Rec	5	1/12/2022 4:16:31 PM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.22	0.12		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Toluene	4.1	0.24		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Ethylbenzene	8.3	0.24		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Xylenes, Total	11	0.48		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Surr: 4-Bromofluorobenzene	149	70-130	S	%Rec	5	1/12/2022 4:16:31 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A2-10

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 11:10:00 AM

 Lab ID:
 2201360-015
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	18000	600	mg/Kg	200	) 1/15/2022 12:21:15 AM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	13	8.7	mg/Kg	1	1/12/2022 12:25:15 PM	64960
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/12/2022 12:25:15 PM	64960
Surr: DNOP	87.3	70-130	%Rec	1	1/12/2022 12:25:15 PM	64960
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	1/12/2022 4:40:13 PM	64950
Surr: BFB	101	70-130	%Rec	5	1/12/2022 4:40:13 PM	64950
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.12	mg/Kg	5	1/12/2022 4:40:13 PM	64950
Toluene	ND	0.24	mg/Kg	5	1/12/2022 4:40:13 PM	64950
Ethylbenzene	ND	0.24	mg/Kg	5	1/12/2022 4:40:13 PM	64950
Xylenes, Total	ND	0.48	mg/Kg	5	1/12/2022 4:40:13 PM	64950
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	5	1/12/2022 4:40:13 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A2-15

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 11:20:00 AM

 Lab ID:
 2201360-016
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	4500	150		mg/Kg	50	1/15/2022 12:33:36 AM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	1900	91		mg/Kg	10	1/18/2022 11:02:08 AM	64960
Motor Oil Range Organics (MRO)	670	450		mg/Kg	10	1/18/2022 11:02:08 AM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/18/2022 11:02:08 AM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	290	23		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Surr: BFB	486	70-130	S	%Rec	5	1/12/2022 5:03:43 PM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.22	0.12		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Toluene	1.1	0.23		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Ethylbenzene	1.2	0.23		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Xylenes, Total	15	0.46		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Surr: 4-Bromofluorobenzene	133	70-130	S	%Rec	5	1/12/2022 5:03:43 PM	64950

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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A2-20

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 11:30:00 AM

 Lab ID:
 2201360-017
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LRN
Chloride	8500	600		mg/Kg	200	1/15/2022 12:45:57 AM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	JME
Diesel Range Organics (DRO)	1300	96		mg/Kg	10	1/13/2022 4:10:25 PM	64960
Motor Oil Range Organics (MRO)	640	480		mg/Kg	10	1/13/2022 4:10:25 PM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/13/2022 4:10:25 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	54	23		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Surr: BFB	169	70-130	S	%Rec	5	1/12/2022 5:27:14 PM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.12	0.11		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Toluene	0.53	0.23		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Ethylbenzene	0.24	0.23		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Xylenes, Total	1.7	0.45		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	5	1/12/2022 5:27:14 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A2-25

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 11:40:00 AM

 Lab ID:
 2201360-018
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	8900	300		mg/Kg	100	1/15/2022 12:58:18 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: SB
Diesel Range Organics (DRO)	3000	180		mg/Kg	20	1/13/2022 1:31:24 PM	64960
Motor Oil Range Organics (MRO)	980	880		mg/Kg	20	1/13/2022 1:31:24 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:31:24 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	1200	25		mg/Kg	5	1/12/2022 5:50:35 PM	64950
Surr: BFB	1030	70-130	S	%Rec	5	1/12/2022 5:50:35 PM	64950
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	2.0	0.12		mg/Kg	5	1/12/2022 5:50:35 PM	64950
Toluene	70	2.5		mg/Kg	50	1/13/2022 5:31:58 PM	64950
Ethylbenzene	55	2.5		mg/Kg	50	1/13/2022 5:31:58 PM	64950
Xylenes, Total	66	0.49		mg/Kg	5	1/12/2022 5:50:35 PM	64950
Surr: 4-Bromofluorobenzene	282	70-130	S	%Rec	5	1/12/2022 5:50:35 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A2-30

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 11:50:00 AM

 Lab ID:
 2201360-019
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LRN
Chloride	8500	300		mg/Kg	100	) 1/15/2022 1:10:38 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	SB
Diesel Range Organics (DRO)	4100	180		mg/Kg	20	1/13/2022 1:43:39 PM	64960
Motor Oil Range Organics (MRO)	1400	900		mg/Kg	20	1/13/2022 1:43:39 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:43:39 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	1200	24		mg/Kg	5	1/12/2022 6:13:54 PM	64950
Surr: BFB	1090	70-130	S	%Rec	5	1/12/2022 6:13:54 PM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	2.2	0.12		mg/Kg	5	1/12/2022 6:13:54 PM	64950
Toluene	71	2.4		mg/Kg	50	1/13/2022 11:39:16 AM	64950
Ethylbenzene	62	2.4		mg/Kg	50	1/13/2022 11:39:16 AM	64950
Xylenes, Total	74	4.8		mg/Kg	50	1/13/2022 11:39:16 AM	64950
Surr: 4-Bromofluorobenzene	301	70-130	S	%Rec	5	1/12/2022 6:13:54 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A2-35

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 12:00:00 PM

 Lab ID:
 2201360-020
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	9500	600		mg/Kg	200	1/15/2022 1:22:59 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	SB
Diesel Range Organics (DRO)	3400	200		mg/Kg	20	1/13/2022 1:56:01 PM	64960
Motor Oil Range Organics (MRO)	1200	980		mg/Kg	20	1/13/2022 1:56:01 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:56:01 PM	64960
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	940	230		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Surr: BFB	195	70-130	S	%Rec	50	1/12/2022 6:37:30 PM	64950
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	2.4	1.2		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Toluene	39	2.3		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Ethylbenzene	40	2.3		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Xylenes, Total	43	4.6		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	50	1/12/2022 6:37:30 PM	64950

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A2-40

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 12:10:00 PM

 Lab ID:
 2201360-021
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	12000	600		mg/Kg	200	1/15/2022 1:35:21 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: JME
Diesel Range Organics (DRO)	8600	200		mg/Kg	20	1/13/2022 5:45:34 PM	64980
Motor Oil Range Organics (MRO)	3100	1000		mg/Kg	20	1/13/2022 5:45:34 PM	64980
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 5:45:34 PM	64980
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: mb
Gasoline Range Organics (GRO)	2600	240		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Surr: BFB	276	70-130	S	%Rec	50	1/13/2022 8:22:00 AM	64958
EPA METHOD 8021B: VOLATILES						Analyst	: mb
Benzene	51	1.2		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Toluene	190	2.4		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Ethylbenzene	110	2.4		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Xylenes, Total	110	4.8		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Surr: 4-Bromofluorobenzene	147	70-130	S	%Rec	50	1/13/2022 8:22:00 AM	64958

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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A2-45

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 12:20:00 PM

 Lab ID:
 2201360-022
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LRN
Chloride	9600	300		mg/Kg	100	1/15/2022 2:12:24 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst	JME
Diesel Range Organics (DRO)	18000	490		mg/Kg	50	1/13/2022 5:56:08 PM	64980
Motor Oil Range Organics (MRO)	7300	2500		mg/Kg	50	1/13/2022 5:56:08 PM	64980
Surr: DNOP	0	70-130	S	%Rec	50	1/13/2022 5:56:08 PM	64980
EPA METHOD 8015D: GASOLINE RANGE						Analyst	mb
Gasoline Range Organics (GRO)	6700	970		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Surr: BFB	187	70-130	S	%Rec	200	1/13/2022 9:02:00 AM	64958
EPA METHOD 8021B: VOLATILES						Analyst	mb
Benzene	220	4.8		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Toluene	590	9.7		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Ethylbenzene	270	9.7		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Xylenes, Total	290	19		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	200	1/13/2022 9:02:00 AM	64958

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 1/21/2022

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: A2-50

 Project:
 Jackson B 57
 Collection Date: 1/6/2022 12:30:00 PM

 Lab ID:
 2201360-023
 Matrix: SOIL
 Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	74	60		mg/Kg	20	1/13/2022 5:49:17 PM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst:	JME
Diesel Range Organics (DRO)	1100	99		mg/Kg	10	1/13/2022 6:06:42 PM	64980
Motor Oil Range Organics (MRO)	600	490		mg/Kg	10	1/13/2022 6:06:42 PM	64980
Surr: DNOP	0	70-130	S	%Rec	10	1/13/2022 6:06:42 PM	64980
EPA METHOD 8015D: GASOLINE RANGE						Analyst	mb
Gasoline Range Organics (GRO)	540	23		mg/Kg	5	1/13/2022 9:41:00 AM	64958
Surr: BFB	467	70-130	S	%Rec	5	1/13/2022 9:41:00 AM	64958
EPA METHOD 8021B: VOLATILES						Analyst	mb
Benzene	1.0	0.12		mg/Kg	5	1/13/2022 9:41:00 AM	64958
Toluene	20	0.23		mg/Kg	5	1/13/2022 9:41:00 AM	64958
Ethylbenzene	21	0.47		mg/Kg	10	1/13/2022 8:31:00 PM	64958
Xylenes, Total	25	0.47		mg/Kg	5	1/13/2022 9:41:00 AM	64958
Surr: 4-Bromofluorobenzene	266	70-130	S	%Rec	5	1/13/2022 9:41:00 AM	64958

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2201360 21-Jan-22** 

Client: GHD Midland
Project: Jackson B 57

Sample ID: MB-64966 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 64966 RunNo: 85087

Prep Date: 1/11/2022 Analysis Date: 1/11/2022 SeqNo: 2993902 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-64966 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 64966 RunNo: 85087

Prep Date: 1/11/2022 Analysis Date: 1/11/2022 SeqNo: 2993903 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.8 90 110

Sample ID: MB-64993 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 64993 RunNo: 85123

Prep Date: 1/12/2022 Analysis Date: 1/12/2022 SeqNo: 2995031 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-64993 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 64993 RunNo: 85123

Prep Date: 1/12/2022 Analysis Date: 1/12/2022 SeqNo: 2995032 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.7 90 110

Sample ID: MB-65009 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65009 RunNo: 85140

Prep Date: 1/13/2022 Analysis Date: 1/13/2022 SeqNo: 2995864 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-65009 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65009 RunNo: 85140

Prep Date: 1/13/2022 Analysis Date: 1/13/2022 SeqNo: 2995865 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.3 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit POL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

Result

ND

ND

8.9

PQL

10

50

10.00

WO#: 2201360 21-Jan-22

GHD Midland **Client: Project:** Jackson B 57

Sample ID: <b>MB-64960</b>	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	8015M/D: Diesel Range Organics			
Client ID: PBS	Batch	n ID: <b>64</b>	960	F	RunNo: 8	5093					
Prep Date: 1/11/2022	Analysis D	ate: 1/	12/2022	5	SeqNo: 2	994121	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10		10.00		101	70	130				
Sample ID: LCS-64960	SampT	ype: <b>LC</b>	s	Tes	tCode: E	PA Method	d 8015M/D: Diesel Range Organics				
Client ID: LCSS	Batch	n ID: <b>64</b>	960	F	RunNo: 8	5093					
Prep Date: 1/11/2022	Analysis D	ate: 1/	12/2022	5	SeqNo: 2	994126	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	48	10	50.00	0	95.3	68.9	135				
Surr: DNOP	4.8		5.000		96.3	70	130				
	•			•		·-				•	
Sample ID: MB-64980	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics		
Sample ID: MB-64980 Client ID: PBS	•	ype: <b>ME</b> n ID: <b>64</b>			tCode: <b>E</b> l RunNo: <b>8</b>		8015M/D: Die	esel Rang	e Organics		

Sample ID: LCS-64980	SampT	ype: <b>LC</b>	De: LCS TestCode: EPA Method 8015M/D: Diesel Range Organi							
Client ID: LCSS	Batch	ID: <b>64</b> 9	980	R	RunNo: 8	5152				
Prep Date: 1/12/2022	Analysis Da	ate: <b>1/</b>	13/2022	SeqNo: 2995662			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	68.9	135			
Surr: DNOP	4.6		5.000		91.8	70	130			

SPK value SPK Ref Val %REC LowLimit

89.2

130

%RPD

**RPDLimit** 

Qual

HighLimit

70

#### Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Е Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range P
- RL Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

21-.Jan-22

2201360

WO#:

Client: GHD Midland Project: Jackson B 57

Sample ID: mb-64958 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 64958 RunNo: 85110

Prep Date: 1/11/2022 Analysis Date: 1/12/2022 SeqNo: 2994495 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 88.9 70 130

Sample ID: Ics-64958 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 64958 RunNo: 85110

Prep Date: 1/11/2022 Analysis Date: 1/12/2022 SeqNo: 2994497 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 98.4
 78.6
 131

 Surr: BFB
 1000
 1000
 102
 70
 130

Sample ID: mb-64950 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 64950 RunNo: 85111

Prep Date: 1/11/2022 Analysis Date: 1/12/2022 SeqNo: 2994561 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 970 1000 97.4 70 130

Sample ID: Ics-64950 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 64950 RunNo: 85111

1100

Prep Date: 1/11/2022 Analysis Date: 1/12/2022 SeqNo: 2994562 Units: mg/Kg

1000

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 98.4 78.6 131 n

#### Qualifiers:

Surr: BFB

- 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 interference
- B Analyte detected in the associated Method Blank

109

70

130

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2201360** 

21-Jan-22

Client: GHD Midland
Project: Jackson B 57

Sample ID: <b>mb-64958</b>	SampType: MBLK			Tes						
Client ID: PBS	Batch ID: 64958			R	5110					
Prep Date: 1/11/2022	Analysis D	Analysis Date: 1/12/2022			SeqNo: 2	994523	Units: mg/K	(g		
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	0.92		1.000		91.7	70	130			

Sample ID: Ics-64958	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batcl	h ID: <b>64</b> 9	958	F	RunNo: 8					
Prep Date: 1/11/2022	Analysis D	Date: 1/	12/2022	8	SeqNo: 29	994524	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

Sample ID: mb-64950	ample ID: mb-64950 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	n ID: <b>64</b>	950	F	RunNo: 8							
Prep Date: 1/11/2022	Analysis D	oate: 1/	12/2022	SeqNo: <b>2994609</b>			<b>14609</b> Units: <b>mg/Kg</b>					
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	1.1		1.000		105	70	130					

Sample ID: LCS-64950	Samp1	ype: <b>LC</b>	s	Tes						
Client ID: LCSS	Batcl	n ID: <b>64</b> 9	950	F						
Prep Date: 1/11/2022	Analysis D	Date: 1/	12/2022	8	SeqNo: 2	No: <b>2994610</b> Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.90	0.050	1.000	0	90.4	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

#### 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

### Sample Log-In Check List

Client Name: **GHD Midland** Work Order Number: 2201360 RcptNo: 1 Chul Salzota Received By: Cheyenne Cason 1/11/2022 8:00:00 AM Completed By: Sean Livingston 1/11/2022 8:23:41 AM Reviewed By: 1/11/22 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No  $\square$ Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No NA  $\square$ 4. Were all samples received at a temperature of >0° C to 6.0°C No V NA 🗌 Yes 🔲 samples not frozen. 5. Sample(s) in proper container(s)? No 🗌 Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 7. Are samples (except VOA and ONG) properly preserved? ~ No 🗌 8. Was preservative added to bottles? No 🗸 Yes NA 🗌 Received at least 1 vial with headspace <1/4" for AQ VOA?</li> Yes No 🗌 NA 🗸 10. Were any sample containers received broken? Yes  $\square$ No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No  $\square$ for pH: (Note discrepancies on chain of custody) (\$2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🗸 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by: (m 1/11/22 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By -0.4 Good

HALL ENVIRONMENTAL AND ANALYSIS LABORATORY AND ANALYSIS LABORATORY AND AND AND AND AND AND AND AND AND AND	8081 Pesticides/8082 PCB's  EDB (Method 504.1)  PAHs by 8310 or 8270SIMS  RCRA 8 Metals  CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> 8250 (VOA)  Total Coliform (Present/Absent)  Total Coliform (Present/Absent)				Date Time Remarks: Please email: Chase_Settle@eogresources.com;  Tom.Larson@ghd.com; Zach.Comino@ghd.com; Date Time Matthew.Laughlin@ghd.com: Along with Becky Haskell above.  Angle
4 4 9	(PSOS) BYEX / MTBE / TMB's (8021)				Remar Matt
AStandard □ Rush S - & Project Name:  Trun-Around Time:  Project Ware:  Project #:	nino □ No □ No ••••••••••••••••••••••••••••••••••••		Soa Soa	400 OO OO OO OO OO	
Client: GHD Client: GHD  Mailing Address: 324 W. Main St. Suite 108, Artesia NM 88210 Phone #: (505)377-4218	Becky.Haskell@ghd.com  Level 4 (Full Validation)  Az Compliance  Other  Matrix Sample Name	0820 & AI-10 & G	0855 A1-25 0905 A1-35	A A A - A A - A - A - A - A - A - A - A	te: Time: Relinquished by:  Time: Relinquished by:  Time: Relinquished by:  Received by: Via:  Received by: Via:  Received by: Via:  Received by: Via:  If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.

	HALL ENVIRONMENTAL	2	www.hallenvironmental.com	37109		000-045-3973 Fax 505-345-4107	Analysis Kequest	(Jua	O <sup>¢†</sup> 2	92 Post of the control of the contro	5/80-7 04. 1 04. 1 04. 1	oides od 5 od 5 od 5 od 5 od 5 od 5 od 5 od 5	esti Neth yy 8 yr, 'YO AO'	DB (N AHs b CRA 8 , F, B 200 (V 300 (S	85 (CI (CI (E)	Y											7	Remarks: Please email: Chase_Settle@eogresources.com:				y sub-contracted data will be clearly notated on the analytical report.
				49	<del>-</del>									X3T		\	-									>		Remar	- Mattl			ossibility. Any
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Turn-Around	Standard	Project Name	F	Project #:	, T		Project Manager	Beckv Haskell	Tom Larson	Sampler:	On Ice:	# of Coolers:		Container Type and #	Jan Jan			1								4		Received by:	Received by:	\	intracted to other ac	
0 0 1	GHD		Mailing Address:	324 W. Main St. Suite 108. Artesia NM 88210	00 100 100 100 100 100 100 100 100 100		email or Fax#: Becky.Haskell@ghd.com	age:	ndard 🗀 Level 4 (Full Validation)	on:	□ NELAC □ Other □ EDD (Type)			Time Matrix Sample Name	1010 S A1-70	No 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	110		-2H	1		1150 A2-30	12co A2-35		2	1230 4 AZ-50	Time: Relinguished by:		Time: Relinquished by:	1900 GCL3	ecessary, samples submitted to Hall Environmental may be subcor	one december aboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
	Client:		Mailir	324 V	040	riione #	email	QA/QC	□ Standard	Accre	D EDD (T			Date	015/02	-			-	-	+					A	Date:	(		10/2	Ш	



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

November 11, 2020

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Jackson B 57 OrderNo.: 2011064

#### Dear Chase Settle:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/3/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 2C2-10'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 2:16:00 PM

 Lab ID:
 2011064-001
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	VP
Chloride	350	59		mg/Kg	20	11/9/2020 3:51:25 PM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	BRM
Diesel Range Organics (DRO)	5200	94		mg/Kg	10	11/5/2020 11:32:29 AM	56195
Motor Oil Range Organics (MRO)	2300	470		mg/Kg	10	11/5/2020 11:32:29 AM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 11:32:29 AM	56195
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	600	250		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Surr: BFB	152	75.3-105	S	%Rec	50	11/6/2020 11:47:46 AM	56185
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	1.1	0.99		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Toluene	15	2.5		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Ethylbenzene	8.2	2.5		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Xylenes, Total	23	4.9		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	50	11/6/2020 11:47:46 AM	56185

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
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 2C2-15'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 2:32:00 PM

 Lab ID:
 2011064-002
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	110	60		mg/Kg	20	11/9/2020 4:28:28 PM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	4900	97		mg/Kg	10	11/5/2020 11:56:14 AM	56195
Motor Oil Range Organics (MRO)	2300	490		mg/Kg	10	11/5/2020 11:56:14 AM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 11:56:14 AM	56195
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	650	240		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Surr: BFB	160	75.3-105	S	%Rec	50	11/6/2020 12:11:18 PM	56185
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	0.99	0.95		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Toluene	22	2.4		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Ethylbenzene	14	2.4		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Xylenes, Total	27	4.8		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	50	11/6/2020 12:11:18 PM	56185

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
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 2C2-20'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 2:38:00 PM

 Lab ID:
 2011064-003
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	: VP
Chloride	1500	60		mg/Kg	20	11/9/2020 4:40:48 PM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	BRM
Diesel Range Organics (DRO)	5100	98		mg/Kg	10	11/5/2020 12:19:58 PM	56195
Motor Oil Range Organics (MRO)	2700	490		mg/Kg	10	11/5/2020 12:19:58 PM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 12:19:58 PM	56195
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	700	95		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Surr: BFB	271	75.3-105	S	%Rec	20	11/7/2020 4:11:11 PM	56185
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.62	0.47		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Toluene	12	0.95		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Ethylbenzene	7.4	0.95		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Xylenes, Total	24	1.9		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	20	11/7/2020 4:11:11 PM	56185

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 2C2-25'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 2:51:00 PM

 Lab ID:
 2011064-004
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	4400	150		mg/Kg	50	11/10/2020 8:31:50 AM	56309
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	2600	99		mg/Kg	10	11/5/2020 12:43:43 PM	56195
Motor Oil Range Organics (MRO)	1600	490		mg/Kg	10	11/5/2020 12:43:43 PM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 12:43:43 PM	56195
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	350	100		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Surr: BFB	178	75.3-105	S	%Rec	20	11/7/2020 4:34:37 PM	56185
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.53	0.50		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Toluene	7.7	1.0		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Ethylbenzene	8.8	1.0		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Xylenes, Total	13	2.0		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	20	11/7/2020 4:34:37 PM	56185

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 2C2-30'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 3:06:00 PM

 Lab ID:
 2011064-005
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF Date Analyzed Ba	atch
EPA METHOD 300.0: ANIONS					Analyst: <b>VP</b>	Р
Chloride	6400	300		mg/Kg	100 11/10/2020 8:44:14 AM 563	6309
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BR	RM
Diesel Range Organics (DRO)	5500	100		mg/Kg	10 11/5/2020 1:07:29 PM 56	6195
Motor Oil Range Organics (MRO)	2700	500		mg/Kg	10 11/5/2020 1:07:29 PM 56	6195
Surr: DNOP	0	30.4-154	S	%Rec	10 11/5/2020 1:07:29 PM 56	6195
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RA	AA
Gasoline Range Organics (GRO)	2300	480		mg/Kg	100 11/6/2020 1:21:38 PM 56	6185
Surr: BFB	163	75.3-105	S	%Rec	100 11/6/2020 1:21:38 PM 56	6185
EPA METHOD 8021B: VOLATILES					Analyst: RA	AA
Benzene	18	2.4		mg/Kg	100 11/6/2020 1:21:38 PM 56	6185
Toluene	140	4.8		mg/Kg	100 11/6/2020 1:21:38 PM 56	6185
Ethylbenzene	92	4.8		mg/Kg	100 11/6/2020 1:21:38 PM 56	6185
Xylenes, Total	94	9.7		mg/Kg	100 11/6/2020 1:21:38 PM 56	6185
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	100 11/6/2020 1:21:38 PM 56	6185

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
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 2C2-35'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 3:21:00 PM

 Lab ID:
 2011064-006
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	13000	590		mg/Kg	200	11/10/2020 8:56:38 AM	56309
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	960	97		mg/Kg	10	11/5/2020 1:31:18 PM	56195
Motor Oil Range Organics (MRO)	720	480		mg/Kg	10	11/5/2020 1:31:18 PM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 1:31:18 PM	56195
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	310	50		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Surr: BFB	232	75.3-105	S	%Rec	10	11/6/2020 4:29:34 PM	56185
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	0.74	0.25		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Toluene	13	0.50		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Ethylbenzene	13	0.50		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Xylenes, Total	14	0.99		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Surr: 4-Bromofluorobenzene	121	80-120	S	%Rec	10	11/6/2020 4:29:34 PM	56185

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
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 2C2-40'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 3:34:00 PM

 Lab ID:
 2011064-007
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	15000	600		mg/Kg	200	11/10/2020 9:09:03 AM	56309
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	2100	99		mg/Kg	10	11/5/2020 1:55:07 PM	56195
Motor Oil Range Organics (MRO)	1100	500		mg/Kg	10	11/5/2020 1:55:07 PM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 1:55:07 PM	56195
EPA METHOD 8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Range Organics (GRO)	820	97		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Surr: BFB	233	75.3-105	S	%Rec	20	11/6/2020 4:53:12 PM	56185
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	7.8	0.48		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Toluene	47	0.97		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Ethylbenzene	35	0.97		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Xylenes, Total	35	1.9		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Surr: 4-Bromofluorobenzene	124	80-120	S	%Rec	20	11/6/2020 4:53:12 PM	56185

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 2C2-50'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 4:10:00 PM

 Lab ID:
 2011064-008
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	11/9/2020 6:07:15 PM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/5/2020 2:18:55 PM	56195
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/5/2020 2:18:55 PM	56195
Surr: DNOP	96.8	30.4-154	%Rec	1	11/5/2020 2:18:55 PM	56195
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/6/2020 5:16:48 PM	56185
Surr: BFB	92.6	75.3-105	%Rec	1	11/6/2020 5:16:48 PM	56185
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	11/6/2020 5:16:48 PM	56185
Toluene	ND	0.050	mg/Kg	1	11/6/2020 5:16:48 PM	56185
Ethylbenzene	ND	0.050	mg/Kg	1	11/6/2020 5:16:48 PM	56185
Xylenes, Total	ND	0.10	mg/Kg	1	11/6/2020 5:16:48 PM	56185
Surr: 4-Bromofluorobenzene	98.6	80-120	%Rec	1	11/6/2020 5:16:48 PM	56185

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
- 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 Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2011064

11-Nov-20

**Client: EOG** 

Chloride

**Project:** Jackson B 57

Sample ID: MB-56309 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 56309 RunNo: 73227

Prep Date: 11/9/2020 Analysis Date: 11/9/2020 SeqNo: 2576709 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-56309 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 56309 RunNo: 73227

1.5

Analysis Date: 11/9/2020 Prep Date: 11/9/2020 SeqNo: 2576718 Units: mg/Kg

15.00

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Result PQL HighLimit Qual Analyte 0

90.1

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

4.4

WO#: 2011064

11-Nov-20

**Client:** EOG

**Project:** Jackson B 57

Sample ID: MB-56195 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 56195 RunNo: 73122

Prep Date: 11/4/2020 Analysis Date: 11/5/2020 SeqNo: 2573228 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 10

Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 95.4 30.4 9.5 10.00 154

Sample ID: LCS-56195 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 56195 RunNo: 73122

Prep Date: 11/4/2020 Analysis Date: 11/5/2020 SeqNo: 2573229

5.000

Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Analyte Result HighLimit Diesel Range Organics (DRO) 43 10 50.00 0 86.4 70 130 Surr: DNOP

87.7

30.4

154

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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#### Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

WO#: **2011064** 

11-Nov-20

Client: EOG

Sample ID: Ics-56185

**Project:** Jackson B 57

					, , , , , , , , , , , , , , , , , , ,	00.0D. Gaso.		•	
Client ID: LCSS	Batch ID: 56	185	R	RunNo: <b>7</b> :	3179				
Prep Date: 11/3/2020	Analysis Date: 1	1/6/2020	S	SeqNo: 2	574317	Units: mg/Kg	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 5.0	25.00	0	88.6	72.5	106			
Surr: BFB	1100	1000		108	75.3	105			S
Sample ID: mb-56185	SampType: M	BLK	Tes	tCode: <b>EF</b>	PA Method	8015D: Gasol	ine Rang	e	
Client ID: PBS	Batch ID: 56	185	R	RunNo: <b>7</b> :	3179				
Prep Date: 11/3/2020	Analysis Date: 1	1/6/2020	S	SeqNo: 2	574320	Units: mg/Kg	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	970	1000		97.5	75.3	105			
Sample ID: mb-56250	SampType: <b>M</b>	BLK	Tes	tCode: <b>EF</b>	PA Method	8015D: Gasol	ine Rang	е	
Client ID: PBS	Batch ID: 56	250	R	RunNo: <b>7</b> :	3203				
Prep Date: 11/6/2020	Analysis Date: 1	1/7/2020	S	SeqNo: 2	574783	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950	1000		94.6	75.3	105		-	
Sample ID: Ics-56250	SampType: <b>L</b> (	s	Tes	tCode: <b>EF</b>	PA Method	8015D: Gasol	ine Rang	e	
Client ID: LCSS	Batch ID: 56	250	R	RunNo: <b>7</b> :	3203				
Prep Date: 11/6/2020	Analysis Date: 1	1/7/2020	S	SeqNo: 2	574784	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: <b>mb-56254</b>	ID: mb-56254 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 56254	<b>4</b> R	RunNo: <b>73203</b>						
Prep Date: 11/6/2020	Analysis Date: 11/8	<b>/2020</b> S	SeqNo: <b>2574807</b>	Units: %Rec					
Analyte	Result PQL S	PK value SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: BFB	940	1000	94.1 75.3	105					

Sample ID: Ics-56254 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: **LCSS** Batch ID: **56254** RunNo: **73203** 

1000

Prep Date: 11/6/2020 Analysis Date: 11/8/2020 SeqNo: 2574808 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 1000 1000 102 75.3 105

#### Qualifiers:

Surr: BFB

- 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

103

75.3

105

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011064** 

11-Nov-20

Client: EOG

**Project:** Jackson B 57

- Jackson	<b>B</b> 37									
Sample ID: LCS-56185	SampT	ype: <b>LC</b>	S	Tes	Code: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	1D: <b>56</b> 1	185	R	tunNo: <b>7</b> :	3179				
Prep Date: 11/3/2020	Analysis D	ate: 11	/6/2020	S	eqNo: 2	574369	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			
Sample ID: <b>mb-56185</b>	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: <b>EF</b>	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: <b>56</b> 1	185	R	tunNo: <b>7</b> 3	3179				
Prep Date: 11/3/2020	Analysis D	ate: 11	/6/2020	S	eqNo: 2	574372	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID: <b>mb-56250</b>	SampT	ype: <b>ME</b>	BLK	Tes	tCode: <b>EF</b>	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: <b>562</b>	250	R	tunNo: <b>7</b> 3	3203				
Prep Date: 11/6/2020	Analysis D	ate: 11	/7/2020	S	eqNo: 2	574958	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			
Sample ID: LCS-56250	SampT	ype: <b>LC</b>	S	Tes	tCode: <b>EF</b>	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	1D: <b>56</b> 2	250	R	tunNo: <b>7</b> :	3203				
Prep Date: 11/6/2020	Analysis D	ate: 11	/7/2020	S	eqNo: 2	574959	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID: mb-56254	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: <b>EF</b>	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: <b>562</b>	254	R	tunNo: <b>7</b> 3	3203				
Prep Date: 11/6/2020	Analysis D	ate: 11	/8/2020	S	eqNo: 2	574982	Units: %Rec	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120			

#### 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 Limit

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#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011064** 

11-Nov-20

Client: EOG

**Project:** Jackson B 57

Sample ID: LCS-56254 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 56254 RunNo: 73203

Prep Date: 11/6/2020 Analysis Date: 11/8/2020 SeqNo: 2574983 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

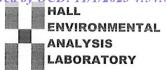
Surr: 4-Bromofluorobenzene 0.99 1.000 99.0 80 120

#### 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 Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

### Sample Log-In Check List

Clier	nt Name:	EOG		Work	Order Number	r: 2011064		RcptNo:	1
Rece	eived By:	Emily Mo	cho	11/3/202	20 8:00:00 AM	1			
Com	pleted By:	Emily Mod	cho	11/3/202	20 9:17:01 AM	1			
Revie	ewed By:	DAD I	11/3/20	)					
<u>Chai</u>	n of Cus	stody							
1. Is	Chain of C	ustody comp	lete?			Yes 🗸	No 🗌	Not Present	
2. H	ow was the	sample deliv	rered?						
Log	<u>In</u>								
3. W	as an atter	npt made to o	cool the sam	ples?		Yes 🗸	No 🗌	NA 🗌	
4. W	ere all sam	ples received	at a temper	ature of >0° C t	o 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sa	ample(s) in	proper contai	iner(s)?			Yes 🗸	No 🗌		
6. Su	fficient san	nple volume f	or indicated	test(s)?		Yes 🗸	No 🗌		
7. Are	e samples	(except VOA	and ONG) p	roperly preserve	d?	Yes 🗸	No 🗌		
		ative added to	1.50.5			Yes	No 🗹	NA $\square$	
9. Re	ceived at le	east 1 vial wit	h headspace	e <1/4" for AQ V	OA?	Yes	No 🗌	NA 🗹	
		mple containe				Yes	No 🗸		
10	,	pio comanie	31010001100	Dronoit.		103		# of preserved	
11. Do	es paperw	ork match bot	ttle labels?			Yes 🗸	No 🗌	bottles checked for pH:	
(No	ote discrep	ancies on cha	ain of custod	y)					>12 unless noted)
12. Are	e matrices	correctly iden	tified on Cha	ain of Custody?		Yes 🗸	No 🗌	Adjusted?	
13. ls i	t clear wha	it analyses we	ere requeste	d?		Yes 🗸	No 🗌	/	ANTHINIA
		ing times able		.)		Yes 🗸	No 🗆	Checked by:	10 M M A CO
Speci	ial Handi	ling (if app	olicable)						
				with this order?		Yes	No 🗌	NA 🗸	
	Person	Notified:	1	Management and Countries of	Date:	Decrease of the state of the st			
	By Wh	om:		CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	Via:	eMail [	Phone Fax	In Person	
	Regard	ling:			STATEMAN CHESTO A PROVINCE DO VIA CALLADO.	MANAGEMENT OF VIOLE			
	Client I	nstructions:				MERCHANISM CONTRACTOR IN COLUMN		CONTRACTOR DECEMBER TO SERVICE COMPANY AND SERVICE STREET	
16. A	dditional re	emarks:							
17 c	ooler Info	rmation							
<u></u>	Cooler No		Condition	Seal Intact	Seal No	Seal Date	Signed By		
	1	2.4	Good	Yes			, , , , , , , , , , , , , , , , , , ,		
	2	3.9	Good	Yes					

Chain-of-Custody Record	Turn-Around T	<u>  <u>ä</u></u>	1 -	5 day rust.			Τ 6	HALL	HALL ENVI	N S	<b>ビ</b> -	ENVIRONMENTAI YSTS I ARORATOR	Received by
10	Project	 					•	WWW	www.hallenvironmental.com	vironn	ent	com	
Mailing Address: $\bigcap_{l} \mathcal{F}_{l} / l$	Jack	Son	15# {	7		4901 Hawkins NE	Hawk	ns NE	1	enbnq	erdne	Albuquerque, NM 87109	: 11/1
	Project #:	033903				Tel. 5	05-34	505-345-3975		Fax !	505-3	505-345-4107	(/202
Phone #:									Anal	Analysis I	Request	est	3 4
email or Fax#:	Project	Project Manager:							<sup>⊅</sup> O9			(Jui	:54:0
QA/QC Package:	(1)	J. S. S.	111/2 S.11/			200000000000000000000000000000000000000		SMIS	S '⁵Oc			əsdA\	JY PM
Accreditation: D Az Compliance	Sampler	5	1,0	17				270	O <sup>5</sup> , F			ļuəs	
	On Ice:	™ Ves	Se Cit	7/7 □ No							- 111	Pre	
ype)_	# of Coolers:	olers: 2										ım (	
	Cooler	들	2.4	±0=2.4 (°C)		354,8%					7.74.4.7	ofilo	
	Container	ler Prese	Preservative	3.9 ±0=3.9 HEAL No.	TEX /	.08:Hc	M) 80	d sHA	СКА 8 1)F, B	V) 092	S) 072	O letc	
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3:21/8   262-35"				000									
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If the life of this possibility. Any sub-contracted to the analytical report.	I Il may be subcontracted to	other accredited	d laboratories	. This serves as notice of this	iliqissod s	ty. Any	noo-qns	tracted o	ata will b	e clearly	y notate	d on the analytical report.	308



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

November 11, 2020

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Jackson B 57 OrderNo.: 2011061

#### Dear Chase Settle:

Hall Environmental Analysis Laboratory received 14 sample(s) on 11/3/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-10'

**Project:** Jackson B 57
 Collection Date: 10/26/2020 9:07:00 AM

 **Lab ID:** 2011061-001
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	2800	150		mg/Kg	50	11/10/2020 9:21:27 AM	56258
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	3800	96		mg/Kg	10	11/4/2020 10:00:07 PM	56183
Motor Oil Range Organics (MRO)	1800	480		mg/Kg	10	11/4/2020 10:00:07 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	10	11/4/2020 10:00:07 PM	56183
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	1800	97		mg/Kg	20	11/6/2020 12:04:53 AM	56177
Surr: BFB	343	75.3-105	S	%Rec	20	11/6/2020 12:04:53 AM	56177
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	20	0.48		mg/Kg	20	11/6/2020 12:04:53 AM	56177
Toluene	110	4.8		mg/Kg	100	11/6/2020 9:27:29 AM	56177
Ethylbenzene	74	0.97		mg/Kg	20	11/6/2020 12:04:53 AM	56177
Xylenes, Total	72	1.9		mg/Kg	20	11/6/2020 12:04:53 AM	56177
Surr: 4-Bromofluorobenzene	143	80-120	S	%Rec	20	11/6/2020 12:04:53 AM	56177

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
  - 8 % 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 Limit

Page 1 of 22

Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-15'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 9:16:00 AM

 Lab ID:
 2011061-002
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	2300	60		mg/Kg	20	11/6/2020 4:05:35 PM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	7000	96		mg/Kg	10	11/4/2020 10:23:55 PM	56183
Motor Oil Range Organics (MRO)	3300	480		mg/Kg	10	11/4/2020 10:23:55 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	10	11/4/2020 10:23:55 PM	56183
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	2800	240		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Surr: BFB	252	75.3-105	S	%Rec	50	11/6/2020 12:28:23 AM	56177
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	30	1.2		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Toluene	210	2.4		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Ethylbenzene	150	2.4		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Xylenes, Total	140	4.9		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Surr: 4-Bromofluorobenzene	133	80-120	S	%Rec	50	11/6/2020 12:28:23 AM	56177

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-20'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 9:29:00 AM

 Lab ID:
 2011061-003
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	840	60		mg/Kg	20	11/6/2020 4:18:00 PM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	6500	960		mg/Kg	100	11/4/2020 10:47:38 PM	56183
Motor Oil Range Organics (MRO)	5900	4800		mg/Kg	100	11/4/2020 10:47:38 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	100	11/4/2020 10:47:38 PM	56183
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	2200	250		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Surr: BFB	239	75.3-105	S	%Rec	50	11/6/2020 12:51:44 AM	56177
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	9.0	1.2		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Toluene	89	2.5		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Ethylbenzene	63	2.5		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Xylenes, Total	100	5.0		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Surr: 4-Bromofluorobenzene	119	80-120		%Rec	50	11/6/2020 12:51:44 AM	56177

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-25'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 9:48:00 AM

 Lab ID:
 2011061-004
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	3200	150		mg/Kg	50	11/10/2020 9:33:52 AM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	8100	490		mg/Kg	50	11/5/2020 4:09:24 PM	56183
Motor Oil Range Organics (MRO)	4300	2400		mg/Kg	50	11/5/2020 4:09:24 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	50	11/5/2020 4:09:24 PM	56183
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	1100	240		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Surr: BFB	175	75.3-105	S	%Rec	50	11/6/2020 1:15:09 AM	56177
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	4.4	1.2		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Toluene	45	2.4		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Ethylbenzene	39	2.4		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Xylenes, Total	55	4.9		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	50	11/6/2020 1:15:09 AM	56177

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
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-30'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 10:01:00 AM

 Lab ID:
 2011061-005
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	2300	150		mg/Kg	50	11/10/2020 9:46:16 AM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	7600	95		mg/Kg	10	11/4/2020 11:35:05 PM	56183
Motor Oil Range Organics (MRO)	3500	480		mg/Kg	10	11/4/2020 11:35:05 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	10	11/4/2020 11:35:05 PM	56183
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	3900	240		mg/Kg	50	11/6/2020 1:38:30 AM	56177
Surr: BFB	272	75.3-105	S	%Rec	50	11/6/2020 1:38:30 AM	56177
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	95	1.2		mg/Kg	50	11/6/2020 1:38:30 AM	56177
Toluene	310	9.8		mg/Kg	200	11/6/2020 9:50:46 AM	56177
Ethylbenzene	160	2.4		mg/Kg	50	11/6/2020 1:38:30 AM	56177
Xylenes, Total	160	4.9		mg/Kg	50	11/6/2020 1:38:30 AM	56177
Surr: 4-Bromofluorobenzene	135	80-120	S	%Rec	50	11/6/2020 1:38:30 AM	56177

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-35'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 10:10:00 AM

 Lab ID:
 2011061-006
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	VP
Chloride	3100	150		mg/Kg	50	11/10/2020 9:58:41 AM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst:	BRM
Diesel Range Organics (DRO)	11000	970		mg/Kg	100	11/4/2020 11:58:44 PM	56183
Motor Oil Range Organics (MRO)	8000	4900		mg/Kg	100	11/4/2020 11:58:44 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	100	11/4/2020 11:58:44 PM	56183
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	5100	240		mg/Kg	50	11/6/2020 2:01:58 AM	56177
Surr: BFB	325	75.3-105	S	%Rec	50	11/6/2020 2:01:58 AM	56177
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	130	1.2		mg/Kg	50	11/6/2020 2:01:58 AM	56177
Toluene	450	9.6		mg/Kg	200	11/6/2020 10:14:15 AM	56177
Ethylbenzene	230	2.4		mg/Kg	50	11/6/2020 2:01:58 AM	56177
Xylenes, Total	210	4.8		mg/Kg	50	11/6/2020 2:01:58 AM	56177
Surr: 4-Bromofluorobenzene	148	80-120	S	%Rec	50	11/6/2020 2:01:58 AM	56177

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
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-40'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 10:32:00 AM

 Lab ID:
 2011061-007
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF 1	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	1500	60		mg/Kg	20	11/6/2020 5:07:38 PM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	8000	910		mg/Kg	100	11/5/2020 12:22:27 AM	56183
Motor Oil Range Organics (MRO)	4700	4600		mg/Kg	100	11/5/2020 12:22:27 AM	56183
Surr: DNOP	0	30.4-154	S	%Rec	100	11/5/2020 12:22:27 AM	56183
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	3800	250		mg/Kg	50	11/6/2020 2:25:19 AM	56177
Surr: BFB	296	75.3-105	S	%Rec	50	11/6/2020 2:25:19 AM	56177
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	64	1.2		mg/Kg	50	11/6/2020 2:25:19 AM	56177
Toluene	260	9.8		mg/Kg	200	11/6/2020 10:37:37 AM	56177
Ethylbenzene	160	2.5		mg/Kg	50	11/6/2020 2:25:19 AM	56177
Xylenes, Total	160	4.9		mg/Kg	50	11/6/2020 2:25:19 AM	56177
Surr: 4-Bromofluorobenzene	137	80-120	S	%Rec	50	11/6/2020 2:25:19 AM	56177

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
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-45'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 10:54:00 AM

 Lab ID:
 2011061-008
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	ND	60		mg/Kg	20	11/9/2020 11:07:39 AM	56296
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	1300	91		mg/Kg	10	11/5/2020 12:46:06 AM	56183
Motor Oil Range Organics (MRO)	650	460		mg/Kg	10	11/5/2020 12:46:06 AM	56183
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 12:46:06 AM	56183
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	790	48		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Surr: BFB	359	75.3-105	S	%Rec	10	11/6/2020 2:48:44 AM	56177
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	8.0	0.24		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Toluene	48	0.48		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Ethylbenzene	36	0.48		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Xylenes, Total	36	0.96		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Surr: 4-Bromofluorobenzene	143	80-120	S	%Rec	10	11/6/2020 2:48:44 AM	56177

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-50'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 11:15:00 AM

 Lab ID:
 2011061-009
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	JMT
Chloride	ND	60		mg/Kg	20	11/9/2020 11:20:03 AM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	DJF
Gasoline Range Organics (GRO)	1100	50		mg/Kg	10	11/5/2020 10:19:54 PM	56182
Surr: BFB	106	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst:	BRM
Diesel Range Organics (DRO)	1600	95		mg/Kg	10	11/5/2020 1:56:53 AM	56188
Motor Oil Range Organics (MRO)	680	470		mg/Kg	10	11/5/2020 1:56:53 AM	56188
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 1:56:53 AM	56188
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst:	DJF
Benzene	7.8	0.25		mg/Kg	10	11/5/2020 10:19:54 PM	56182
Toluene	52	5.0		mg/Kg	100	11/6/2020 1:55:34 PM	56182
Ethylbenzene	33	0.50		mg/Kg	10	11/5/2020 10:19:54 PM	56182
Xylenes, Total	40	0.99		mg/Kg	10	11/5/2020 10:19:54 PM	56182
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182
Surr: Dibromofluoromethane	91.6	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182
Surr: Toluene-d8	96.0	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-55'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 11:35:00 AM

 Lab ID:
 2011061-010
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	ND	60		mg/Kg	20	11/9/2020 11:32:27 AM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst	DJF
Gasoline Range Organics (GRO)	1800	95		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Surr: BFB	93.5	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	3000	97		mg/Kg	10	11/5/2020 2:20:27 AM	56188
Motor Oil Range Organics (MRO)	1400	490		mg/Kg	10	11/5/2020 2:20:27 AM	56188
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 2:20:27 AM	56188
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst	DJF
Benzene	16	0.47		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Toluene	80	0.95		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Ethylbenzene	54	0.95		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Xylenes, Total	58	1.9		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182
Surr: Dibromofluoromethane	90.0	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182
Surr: Toluene-d8	96.2	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-60'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 11:53:00 AM

 Lab ID:
 2011061-011
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	JMT
Chloride	61	60		mg/Kg	20	11/9/2020 11:44:50 AM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst:	DJF
Gasoline Range Organics (GRO)	2100	100		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Surr: BFB	95.2	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst	BRM
Diesel Range Organics (DRO)	2600	97		mg/Kg	10	11/5/2020 2:44:02 AM	56188
Motor Oil Range Organics (MRO)	1300	480		mg/Kg	10	11/5/2020 2:44:02 AM	56188
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 2:44:02 AM	56188
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst:	DJF
Benzene	13	0.50		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Toluene	79	1.0		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Ethylbenzene	56	1.0		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Xylenes, Total	59	2.0		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Surr: 1,2-Dichloroethane-d4	87.4	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182
Surr: Dibromofluoromethane	91.7	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182
Surr: Toluene-d8	98.1	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-65'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 12:26:00 PM

 Lab ID:
 2011061-012
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	11/9/2020 12:34:29 PM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	11/5/2020 11:41:39 PM	56182
Surr: BFB	101	70-130	%Rec	1	11/5/2020 11:41:39 PM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	11/5/2020 3:07:34 AM	56188
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/5/2020 3:07:34 AM	56188
Surr: DNOP	98.6	30.4-154	%Rec	1	11/5/2020 3:07:34 AM	56188
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	DJF
Benzene	ND	0.025	mg/Kg	1	11/5/2020 11:41:39 PM	56182
Toluene	ND	0.050	mg/Kg	1	11/5/2020 11:41:39 PM	56182
Ethylbenzene	ND	0.050	mg/Kg	1	11/5/2020 11:41:39 PM	56182
Xylenes, Total	ND	0.10	mg/Kg	1	11/5/2020 11:41:39 PM	56182
Surr: 1,2-Dichloroethane-d4	95.0	70-130	%Rec	1	11/5/2020 11:41:39 PM	56182
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	11/5/2020 11:41:39 PM	56182
Surr: Dibromofluoromethane	97.0	70-130	%Rec	1	11/5/2020 11:41:39 PM	56182
Surr: Toluene-d8	96.8	70-130	%Rec	1	11/5/2020 11:41:39 PM	56182

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
  - 8 % 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 Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-70'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 1:25:00 PM

 Lab ID:
 2011061-013
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	11/9/2020 12:46:53 PM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/6/2020 12:08:46 AM	56182
Surr: BFB	101	70-130	%Rec	1	11/6/2020 12:08:46 AM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/5/2020 3:54:45 AM	56188
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/5/2020 3:54:45 AM	56188
Surr: DNOP	100	30.4-154	%Rec	1	11/5/2020 3:54:45 AM	56188
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	11/6/2020 12:08:46 AM	56182
Toluene	ND	0.047	mg/Kg	1	11/6/2020 12:08:46 AM	56182
Ethylbenzene	ND	0.047	mg/Kg	1	11/6/2020 12:08:46 AM	56182
Xylenes, Total	ND	0.094	mg/Kg	1	11/6/2020 12:08:46 AM	56182
Surr: 1,2-Dichloroethane-d4	93.3	70-130	%Rec	1	11/6/2020 12:08:46 AM	56182
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	11/6/2020 12:08:46 AM	56182
Surr: Dibromofluoromethane	96.8	70-130	%Rec	1	11/6/2020 12:08:46 AM	56182
Surr: Toluene-d8	95.9	70-130	%Rec	1	11/6/2020 12:08:46 AM	56182

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
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/11/2020

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: 1C2-75'

 Project:
 Jackson B 57
 Collection Date: 10/26/2020 1:48:00 PM

 Lab ID:
 2011061-014
 Matrix: SOIL
 Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	11/9/2020 12:59:18 PM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/6/2020 12:36:03 AM	56182
Surr: BFB	102	70-130	%Rec	1	11/6/2020 12:36:03 AM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	11/5/2020 4:18:11 AM	56188
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	11/5/2020 4:18:11 AM	56188
Surr: DNOP	98.7	30.4-154	%Rec	1	11/5/2020 4:18:11 AM	56188
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	DJF
Benzene	ND	0.024	mg/Kg	1	11/6/2020 12:36:03 AM	56182
Toluene	ND	0.048	mg/Kg	1	11/6/2020 12:36:03 AM	56182
Ethylbenzene	ND	0.048	mg/Kg	1	11/6/2020 12:36:03 AM	56182
Xylenes, Total	ND	0.096	mg/Kg	1	11/6/2020 12:36:03 AM	56182
Surr: 1,2-Dichloroethane-d4	99.9	70-130	%Rec	1	11/6/2020 12:36:03 AM	56182
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	11/6/2020 12:36:03 AM	56182
Surr: Dibromofluoromethane	101	70-130	%Rec	1	11/6/2020 12:36:03 AM	56182
Surr: Toluene-d8	94.4	70-130	%Rec	1	11/6/2020 12:36:03 AM	56182

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
  - 8 % 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 Limit

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#### Hall Environmental Analysis Laboratory, Inc.

#: 2011061 11-Nov-20

Qual

WO#:

Client: EOG

**Project:** Jackson B 57

Sample ID: MB-56258 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 56258 RunNo: 73173

Prep Date: 11/6/2020 Analysis Date: 11/6/2020 SeqNo: 2575833 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-56258 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 56258 RunNo: 73173

Prep Date: 11/6/2020 Analysis Date: 11/6/2020 SeqNo: 2575835 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPI Chloride 14 1.5 15.00 0 91.5 90 110

Sample ID: MB-56296 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 56296 RunNo: 73210

Prep Date: 11/9/2020 Analysis Date: 11/9/2020 SeqNo: 2576392 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-56296 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 56296 RunNo: 73210

Prep Date: 11/9/2020 Analysis Date: 11/9/2020 SeqNo: 2576393 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.9 90 110

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2011061** 

11-Nov-20

Client: EOG

**Project:** Jackson B 57

Project: Jackson J	<b>D</b> 37											
Sample ID: MB-56183	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID: PBS	Batch	ID: <b>56</b>	183	F	RunNo: <b>7</b> 3	3122						
Prep Date: 11/3/2020	Analysis D	ate: 11	1/4/2020	S	SeqNo: 2	571825	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	11		10.00		115	30.4	154					
Sample ID: LCS-56183	SampT	ype: <b>LC</b>	s	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics			
Client ID: LCSS	Batch	ID: <b>56</b>	183	F	RunNo: <b>7</b> 3	3122						
Prep Date: 11/3/2020	Analysis D	ate: <b>1</b> 1	1/4/2020	S	SeqNo: 25	571826	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	49	10	50.00	0	97.7	70	130					
Surr: DNOP	5.1		5.000		101	30.4	154					
Sample ID: MB-56188	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID: PBS	Batch	ID: <b>56</b>	188	F	RunNo: <b>7</b> 3	3122						
Prep Date: 11/3/2020	Analysis D	ate: 11	1/5/2020	S	SeqNo: 25	571859	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	12		10.00		119	30.4	154					
Sample ID: LCS-56188	SampT	ype: <b>LC</b>	s	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	Organics			
Client ID: LCSS	Batch	ID: <b>56</b>	188	F	RunNo: <b>7</b> 3	3122						
Prep Date: 11/3/2020	Analysis D	ate: 11	1/5/2020	S	SeqNo: 25	571860	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	53	10	50.00	0	105	70	130					
Surr: DNOP	5.6		5.000		112	30.4	154					
Sample ID: LCS-56211	SampT	ype: <b>LC</b>	s	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	e Organics			
Client ID: LCSS	Batch	ID: <b>56</b>	211	RunNo: <b>73123</b>								
Prep Date: 11/4/2020	Analysis D	ate: 11	1/6/2020	8	SeqNo: 2	573679	Units: %Rec	;				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	3.6		5.000		72.9	30.4	154					

#### 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2011061** 

11-Nov-20

Client: EOG

**Project:** Jackson B 57

Sample ID: MB-56211 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 56211 RunNo: 73123

Prep Date: 11/4/2020 Analysis Date: 11/6/2020 SeqNo: 2573681 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 8.7 10.00 86.6 30.4 154

Sample ID: LCS-56227 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 56227 RunNo: 73123

Prep Date: 11/5/2020 Analysis Date: 11/6/2020 SeqNo: 2575306 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 3.6 5.000 72.7 30.4 154

Sample ID: MB-56227 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 56227 RunNo: 73123

Prep Date: 11/5/2020 Analysis Date: 11/6/2020 SeqNo: 2575307 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 8.7 10.00 87.5 30.4 154

### 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2011061** 

11-Nov-20

Client: EOG

**Project:** Jackson B 57

Sample ID: mb-56177 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 56177 RunNo: 73150

Prep Date: 11/3/2020 Analysis Date: 11/5/2020 SeqNo: 2573162 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 890 1000 89.3 75.3 105

Sample ID: Ics-56177 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 56177 RunNo: 73150

Prep Date: 11/3/2020 Analysis Date: 11/5/2020 SeqNo: 2573163 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 90.2
 72.5
 106

 Surr: BFB
 960
 1000
 96.4
 75.3
 105

### 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 Limit

Page 18 of 22

# Hall Environmental Analysis Laboratory, Inc.

0.94

WO#: **2011061** 

11-Nov-20

Client: EOG

Surr: 4-Bromofluorobenzene

**Project:** Jackson B 57

Sample ID: mb-56177 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 56177 RunNo: 73150 Prep Date: 11/3/2020 Analysis Date: 11/5/2020 SeqNo: 2573202 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.025 Benzene Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

94.2

120

80

1.000

Sample ID: LCS-56177	Sampl	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: <b>56</b> ′	177	F	RunNo: <b>7</b> :	3150				
Prep Date: 11/3/2020	Analysis D	Date: 11	/5/2020	\$	SeqNo: 2	573203	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.9	80	120			

### ${\bf Qualifiers:}$

- 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 Limit

Page 19 of 22

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2011061** 

11-Nov-20

Client: EOG

**Project:** Jackson B 57

Sample ID: <b>mb-56182</b>	Samp1	iype. IVIE					8260B: Volat			
Client ID: PBS	Batc	h ID: <b>56</b> ′	182	F	RunNo: <b>7</b> :	3169				
Prep Date: 11/3/2020	Analysis [	Date: 11	/5/2020	8	SeqNo: 2	573512	Units: mg/K	(g		
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: 1,2-Dichloroethane-d4	0.50		0.5000		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		107	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.48		0.5000		96.4	70	130			
Suit. Toluelle-uo	00									
Sample ID: LCS-56182		Гуре: <b>LC</b>	S4	Tes	tCode: <b>EF</b>	PA Method	8260B: Volat	iles Short	List	
	Samp	Гуре: <b>LC</b> h ID: <b>56</b> °			tCode: <b>EF</b> RunNo: <b>7</b> ;		8260B: Volat	iles Short	List	
Sample ID: LCS-56182	Samp	h ID: <b>56</b> ′	182	F		3169	8260B: Volat		List	
Sample ID: LCS-56182 Client ID: BatchQC	Samp <sup>1</sup> Batc	h ID: <b>56</b> ′	182 1/5/2020	F	RunNo: <b>7</b> :	3169			<b>List</b> RPDLimit	Qual
Sample ID: LCS-56182 Client ID: BatchQC Prep Date: 11/3/2020	Sampī Batci Analysis [	h ID: <b>56</b> Date: <b>11</b>	182 1/5/2020	F	RunNo: <b>7</b> : SeqNo: <b>2</b> !	3169 573513	Units: mg/K	(g		Qual
Sample ID: LCS-56182 Client ID: BatchQC Prep Date: 11/3/2020 Analyte Benzene	Sampī Batc Analysis [ Result	h ID: <b>56</b> 4 Date: <b>11</b>	182 1/5/2020 SPK value	SPK Ref Val	RunNo: <b>7;</b> SeqNo: <b>2!</b> %REC	3169 573513 LowLimit	Units: mg/K	(g		Qual
Sample ID: LCS-56182 Client ID: BatchQC Prep Date: 11/3/2020 Analyte	Sampī Batci Analysis I Result	h ID: <b>56</b> 2 Date: <b>11</b> PQL 0.025	182 1/5/2020 SPK value 1.000	SPK Ref Val	RunNo: <b>7</b> ; SeqNo: <b>2</b> ! %REC 106	3169 573513 LowLimit 80	Units: mg/K HighLimit	(g		Qual
Sample ID: LCS-56182 Client ID: BatchQC Prep Date: 11/3/2020 Analyte Benzene Toluene	Samp Batcl Analysis E Result 1.1	PQL 0.025 0.050	182 1/5/2020 SPK value 1.000 1.000	SPK Ref Val	RunNo: <b>7</b> ; SeqNo: <b>2</b> ; <u>%REC</u> 106 101	3169 573513 LowLimit 80 80	Units: mg/K HighLimit 120 120	(g		Qual
Sample ID: LCS-56182 Client ID: BatchQC Prep Date: 11/3/2020 Analyte Benzene Toluene Ethylbenzene	Samp Batc Analysis E Result 1.1 1.0 1.0	PQL 0.025 0.050	182 1/5/2020 SPK value 1.000 1.000	SPK Ref Val  0 0 0	RunNo: <b>7</b> 3 SeqNo: <b>2</b> 5 <u>%REC</u> 106 101 100	80 80 80	Units: mg/K HighLimit 120 120 120	(g		Qual
Sample ID: LCS-56182 Client ID: BatchQC Prep Date: 11/3/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Samp Batc Analysis E Result 1.1 1.0 1.0 3.1	PQL 0.025 0.050	182 1/5/2020 SPK value 1.000 1.000 1.000 3.000	SPK Ref Val  0 0 0	RunNo: <b>7</b> 3 SeqNo: <b>2</b> 5 <u>%REC</u> 106 101 100 102	80 80 80 80	Units: mg/K HighLimit 120 120 120 120	(g		Qual
Sample ID: LCS-56182 Client ID: BatchQC Prep Date: 11/3/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Sampl Batc Analysis E Result 1.1 1.0 1.0 3.1 0.50	PQL 0.025 0.050	182 1/5/2020 SPK value 1.000 1.000 1.000 3.000 0.5000	SPK Ref Val  0 0 0	RunNo: 7; SeqNo: 2! %REC 106 101 100 102 100	8169 573513 LowLimit 80 80 80 80 70	Units: mg/K HighLimit 120 120 120 120 130	(g		Qual

Sample ID: <b>mb-56212</b>	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: <b>EF</b>	PA Method	8260B: Volat	les Short	List	
Client ID: PBS	Batch	ID: <b>56</b>	212	R	RunNo: <b>7</b> 3	3190				
Prep Date: 11/4/2020	Analysis D	ate: <b>1</b> 1	1/6/2020	S	SeqNo: 25	574203	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.4	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		107	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.6	70	130			
Surr: Toluene-d8	0.48		0.5000		96.5	70	130			

Sample ID: Ics-56212	SampT	ype: <b>LC</b>	S4	Tes	tCode: <b>El</b>	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batch	ID: <b>56</b> 2	212	R	RunNo: <b>7</b> :	3190				
Prep Date: 11/4/2020	Analysis D	ate: 11	/6/2020	S	SeqNo: 2	574204	Units: %Rec	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Surr: 1,2-Dichloroethane-d4	Result 0.47	PQL	SPK value 0.5000	SPK Ref Val	%REC 93.7	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual

### Qualifiers:

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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

2011061 11-Nov-20

WO#:

Client: EOG

**Project:** Jackson B 57

Sample ID: Ics-56212	SampT	ype: <b>LC</b>	S4	Test	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batch	ID: <b>56</b>	212	R	unNo: <b>7</b> :	3190				
Prep Date: 11/4/2020	Analysis D	ate: <b>1</b> 1	1/6/2020	S	eqNo: 2	574204	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.50		0.5000		99.8	70	130			
Surr: Toluene-d8	0.48		0.5000		96.9	70	130			

Sample ID: <b>mb-56204</b>	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	n ID: <b>56</b>	204	F	RunNo: <b>7</b> :	3190				
Prep Date: 11/4/2020	Analysis D	ate: 1	1/7/2020	5	SeqNo: 2	574217	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.8	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.2	70	130			
Surr: Toluene-d8	0.47		0.5000		93.5	70	130			

Sample ID: Ics-56204	SampT	ype: <b>LC</b>	S4	Test	tCode: <b>EF</b>	PA Method	8260B: Volati	les Short	List	
Client ID: BatchQC	Batch	ID: <b>56</b>	204	R	RunNo: <b>7</b> :	3190				
Prep Date: 11/4/2020	Analysis D	ate: <b>1</b> 1	/6/2020	S	SeqNo: 2	574219	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.1	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.8	70	130			
Surr: Toluene-d8	0.47		0.5000		94.0	70	130			

### 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 Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: 2011061

Qual

**RPDLimit** 

11-Nov-20

**Client: EOG** 

Sample ID: mb-56212

**Project:** Jackson B 57

Sample ID: mb-56182 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: PBS Batch ID: 56182 RunNo: 73169 Prep Date: Analysis Date: 11/5/2020 SeqNo: 2573536 11/3/2020 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 510 500.0 102 70 130

Sample ID: Ics-56182 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 56182 RunNo: 73169

SampType: MBLK

Prep Date: 11/3/2020 Analysis Date: 11/5/2020 SeqNo: 2573537 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 21 5.0 25.00 82.5 130 Surr: BFB 500 70 500.0 100 130

Client ID: PBS Batch ID: 56212 RunNo: 73190 Prep Date: Analysis Date: 11/6/2020 SeqNo: 2574237 11/4/2020 Units: %Rec PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte Result LowLimit HighLimit Surr: BFB 520 500.0 70 103 130

TestCode: EPA Method 8015D Mod: Gasoline Range

Sample ID: Ics-56212 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 56212 RunNo: 73190 Prep Date: 11/4/2020 Analysis Date: 11/6/2020 SeqNo: 2574238 Units: %Rec SPK value SPK Ref Val %REC %RPD **RPDLimit** Result LowLimit HighLimit Qual

Analyte Surr: BFB 530 500.0 105 130

Sample ID: mb-56204 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: PBS Batch ID: 56204 RunNo: 73190 Prep Date: 11/4/2020 Analysis Date: 11/7/2020 SeqNo: 2574251 Units: %Rec Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte POI I owl imit Surr: BFB 490 500.0 130

Sample ID: Ics-56204 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 56204 RunNo: 73190

Analysis Date: 11/6/2020 Prep Date: 11/4/2020 SeaNo: 2574252 Units: %Rec

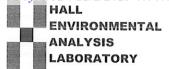
Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 490 500.0 97.8 70 130

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: EOG Work Order Number: 2011061 RcptNo: 1 Received By: **Emily Mocho** 11/3/2020 8:00:00 AM Completed By: **Emily Mocho** 11/3/2020 9:00:00 AM Reviewed By: DAD 11/3/20 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 🔲 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? No 🗌 Yes No 🗸 8. Was preservative added to bottles? Yes NA 🔲 9. Received at least 1 vial with headspace <1/4" for AQ VOA? NA 🗸 Yes No Yes 🗌 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: ENH 113/20 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes NA V No \_ Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By

Page 1 of 1

1

2

2.4

3.9

Good

Good

Yes

Yes

Client:	Shain-of-Custo	f-Cu	US.	tody	Chain-of-Custody Record	Turn-Around Time:   Standard  Project Name:		5 day rugh Rush				AN	HALL	HALL ENVI	IN IS	LA LA	ENVIRONMENTYSIS LABORAT	EN SAT	TAL	>	Received by OCL
Mailing	Mailing Address:	Ç	2	File		Juckson	1 B #57	7		490	1 Hav	www.n 4901 Hawkins NE	w.na NE -	Albu	onime	www.nallenvironinental.com ns NE - Albuquerque, NM 8	environmental.com Albuquerque, NM 87109	60			D: 11/1
						Project #:				Tel	505	Tel. 505-345-3975	3975	Ä	Fax 50	15-34	505-345-4107				/202
Phone #:	#:									-	_	-	٩	Analysis	sis Re	Request	,,	_			3 4:
email	email or Fax#:					Project Manager:	iger:		(1:	(0)				†OS		(ţue	,				54:0
QA/QC Packa □ Standard	QA/QC Package:			Level	□ Level 4 (Full Validation)	Chrse	SHIL		S08) e'8	AM \ O	LCB.8	SWIS0		PO4, 3		edA\tn					9 PM
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□ NE	□ NELAC □	□ Other	er			On Ice:		ON 🗆	/ =	ОЯ				1 ' <sup>£</sup> (	-						
	D (Type)		-			# of Coolers:	2			9)(				NC				_			
						Cooler Temp(including CF):	7	4±0=2.4 (°C)	_	<b>191</b> 0				Br,							
Date	Time	Matrix		ample	Sample Name	Container Type and #	Preservative Type	HEAL 2011 06	X∃T8	)8:H9T		I) BD3 RAHs	AADA	€£,	) 0928	) 0728 ) letoT					
10/26/20	9-07A	-10		(2-10	101	1/929/	ICE		×	×				×							
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	10:54 p		_	162	-45'	-	-41	800	-		-	-		_							T
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Date:	Time: Reli	Relinquished by:	shed	by:		Received by:	Via:	Date Time			5	_	·							224 o	224 o
	If necessary, sam	mples sub	submitt	ted to Hall	ll Environmental may be sub	ocontracted to other	accredited laborator	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	Is possi	billity. A	ny sub-	contrac	ted data	will be	clearly	notated	on the ana	lytical re	port.		f 368

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	Setting   Sett	Time: Relinquished by: Received by: Via: Date Time Remarks: Relinquished by: Received by: Via: Date Time  Received by: Via: Date Time  Received by: Nia: Date Time
Turn-Around Time: 5 day rush  Standard   Rush  Project Name: 8 #57  Project #:	Project Manager:	Received by: Via: Date Time $\mathcal{EM}$ $\mathcal{COMNe}_{\mathcal{A}}$ $(1)/3/2_{\mathcal{D}}$ $(0)$ Received by: Via: Date Time outracted to other accredited laboratories. This serves as notice of this
Chain-of-Custody Record  Client: LOC Resources, Inc.  Mailing Address: On File  Phone #:	email or Fax#:  OA/OC Package:  OA/OC Package:  Accreditation:   Az Compliance   NELAC   Other     EDD (Type)	Date: Time: Relinquished by:



October 18, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 10/17/2019

 Reported:
 10/18/2019

 Project Name:
 JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #2 -2C - 10' (H903557-01)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.16	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	15.4	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	20.0	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	25.1	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	61.6	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	690	50.0	10/18/2019	ND	208	104	200	2.62	
DRO >C10-C28*	2070	50.0	10/18/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	222	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	140	% 41-142	!						
Surrogate: 1-Chlorooctadecane	155	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



### Analytical Results For:

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

Received: 10/17/2019 Sampling Date: 10/16/2019 Reported: Sampling Type: Soil 10/18/2019

Project Name: JACKSON B #57 Sampling Condition: Cool & Intact Project Number: 2RP-5149 Sample Received By: Jodi Henson

Project Location: JACKSON B #57

### Sample ID: #2 -2C - 15' (H903557-02)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.78	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	34.4	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	29.9	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	34.7	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	104	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8560	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1090	50.0	10/18/2019	ND	208	104	200	2.62	
DRO >C10-C28*	4110	50.0	10/18/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	603	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	157	% 41-142	?						
Surrogate: 1-Chlorooctadecane	206	% 37.6-14	7						

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### Analytical Results For:

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

Received: 10/17/2019

Reported: 10/18/2019 Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 10/16/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: #2 -2C - 20' (H903557-03)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.14	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	18.8	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	19.3	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	23.9	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	64.2	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	835	50.0	10/18/2019	ND	208	104	200	2.62	
DRO >C10-C28*	4000	50.0	10/18/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	594	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	227	% 41-142	?						
Surrogate: 1-Chlorooctadecane	205	% 37.6-14	7						

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### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

matrix interrelences.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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October 18, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 10/17/2019

 Reported:
 10/18/2019

 Project Name:
 JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 10' (H903556-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.83	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	78.5	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	74.8	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	102	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	265	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2350	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	5780	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	834	50.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	200	% 41-142	,						
Surrogate: 1-Chlorooctadecane	234	% 37.6-14	7						

Applyand By DE

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Celeg D. Keene



### Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #2 -1C - 15' (H903556-02)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	16.9	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	75.8	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	56.3	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	65.5	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	215	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1790	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	3460	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	511	50.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	168	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	189	% 37.6-14	7						

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\*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #2 -1C - 20' (H903556-03)

BTEX 8021B	mg	/kg	Analyze	ed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.31	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	19.0	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	17.0	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	20.1	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	60.5	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	402	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	1720	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	233	50.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	127	% 41-142	?						
Surrogate: 1-Chlorooctadecane	148	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



10/16/2019

### Analytical Results For:

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

Fax To: (575) 748-4131

Received: 10/17/2019 Sampling Date:

Reported: 10/18/2019 Sampling Type: Soil Project Name: JACKSON B #57 Sampling Condition: Cool & Intact Sample Received By: Project Number: 2RP-5149 Jodi Henson

Project Location: JACKSON B #57

### Sample ID: #2 -1C - 25' (H903556-04)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.1	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	44.7	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	36.1	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	41.2	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	132	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	546	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	1680	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	201	50.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	126	% 41-142	?						
Surrogate: 1-Chlorooctadecane	147	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #2 -1C - 30' (H903556-05)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.091	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.156	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	0.090	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	0.337	0.300	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	•						
Surrogate: 1-Chlorooctadecane	100	% 37.6-14	7						

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### Analytical Results For:

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

JACKSON B #57

 Received:
 10/17/2019
 Sampling Date:
 10/16/2019

 Reported:
 10/18/2019
 Sampling Type:
 Soil

Project Name: JACKSON B #57 Sampling Condition: Cool & Intact
Project Number: 2RP-5149 Sample Received By: Jodi Henson

Sample ID: #2 -1C - 35' (H903556-06)

Project Location:

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.183	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.372	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	0.136	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	0.793	0.300	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene	(PID	95.0 %	73.3-129
Suit State: 1 Bromojino occinzente			, 0.0 12,

mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
14600	16.0	10/18/2019	ND	432	108	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
<10.0	10.0	10/17/2019	ND					
	Result  14600  mg,  Result  <10.0  <10.0	14600 16.0  mg/kg  Result Reporting Limit  <10.0 10.0  <10.0 10.0	Result         Reporting Limit         Analyzed           14600         16.0         10/18/2019           mg/kg         Analyze           Result         Reporting Limit         Analyzed           <10.0	Result         Reporting Limit         Analyzed         Method Blank           14600         16.0         10/18/2019         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS           14600         16.0         10/18/2019         ND         432           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           14600         16.0         10/18/2019         ND         432         108           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           14600         16.0         10/18/2019         ND         432         108         400           Mesult         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           14600         16.0         10/18/2019         ND         432         108         400         0.00           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

Surrogate: 1-Chlorooctane 87.1 % 41-142
Surrogate: 1-Chlorooctadecane 92.2 % 37.6-147

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Celey D. Keine



### Analytical Results For:

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

 Received:
 10/17/2019

 Reported:
 10/18/2019

 Project Name:
 JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #2 -1C - 40' (H903556-07)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.816	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	2.85	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	2.67	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	3.18	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	9.52	0.300	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	57.7	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	281	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	30.4	10.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	97.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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### Analytical Results For:

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

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #2 -1C - 45' (H903556-08)

BTEX 8021B

DIEX OUZID	ıııg,	ng .	Allulyzo	u by. bi					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.054	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	<0.050	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	<0.300	0.300	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9760	16.0	10/18/2019	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/18/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142							
Surrogate: 1-Chlorooctadecane	99.6	% 37.6-14	7						

Analyzed By: BF

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Fax To: (575) 748-4131

Received: 10/17/2019 Sampling Date: 10/16/2019 Reported: 10/18/2019 Sampling Type: Soil

Project Name: JACKSON B #57 Sampling Condition: Cool & Intact Sample Received By: Project Number: 2RP-5149 Jodi Henson

Project Location: JACKSON B #57

### Sample ID: #2 -1C - 50' (H903556-09)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.087	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.092	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	< 0.050	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	< 0.150	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	<0.300	0.300	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/18/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	88.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

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### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Rece	ived b	y OCI	): 1	1/1/	202	3 4:	54:0	9 P	<i>M</i> _		_	_		_				_						
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October 18, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #1 -2C - 10' (H903555-01)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	114	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	327	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	168	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	159	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	769	30.0	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6690	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	10100	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1610	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	287 5	% 41-142	•						
Surrogate: 1-Chlorooctadecane	339	% 37.6-14	7						

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### Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 10/17/2019

Reported: 10/18/2019

Project Name: 14/KSON R #57

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 15' (H903555-02)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	117	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	337	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	182	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	174	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	810	30.0	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	10/18/2019	ND	432	108	400	0.00	QM-07
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5080	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	8280	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1330	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	252	% 41-142	?						
Surrogate: 1-Chlorooctadecane	303	% 37.6-14	7						

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### Analytical Results For:

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

Received: 10/17/2019

Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019 Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #1 -2C - 20' (H903555-03)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	33.1	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	150	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	98.5	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	103	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	384	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2850	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	5510	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	847	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	206	% 41-142	?						
Surrogate: 1-Chlorooctadecane	246	% 37.6-14	7						

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### Analytical Results For:

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

Fax To: (575) 748-4131

Received: 10/17/2019

Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 25' (H903555-04)

BTEX 8021B

DRO >C10-C28\*

**EXT DRO > C28 - C36** 

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	42.8	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	125	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	68.9	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	68.6	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	305	30.0	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1160	50.0	10/18/2019	ND	218	109	200	1.58	

ND

ND

222

111

200

1.29

10/18/2019

10/18/2019

Analyzed By: BF

Surrogate: 1-Chlorooctane 147 % 41-142
Surrogate: 1-Chlorooctadecane 165 % 37.6-147

1730

213

50.0

50.0

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### Analytical Results For:

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

 Received:
 10/17/2019
 Sampling Date:
 10/15/2019

 Reported:
 10/18/2019
 Sampling Type:
 Soil

Project Name: JACKSON B #57 Sampling Condition: Cool & Intact
Project Number: 2RP-5149 Sample Received By: Jodi Henson

Project Location: JACKSON B #57

### Sample ID: #1 -2C - 30' (H903555-05)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	97.8	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	304	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	168	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	171	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	741	30.0	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	19						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5710	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	8870	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1410	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	264	% 41-142	?						
C 1 Chlamata la ma	217	0/ 27/14	17						

Surrogate: 1-Chlorooctadecane 317 % 37.6-147

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### Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019 Project Name: JACKSON B #57

Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: #1 -2C - 35' (H903555-06)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	136	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	399	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	212	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	205	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	952	30.0	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7910	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	11900	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1950	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	318	% 41-142	·						
Surrogate: 1-Chlorooctadecane	384	% 37 6-14	7						

Surrogate: 1-Chlorooctadecane 384 % 37.6-147

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### Analytical Results For:

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

Fax To: (575) 748-4131

Received: 10/17/2019 Reported: 10/18/2019

Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 40' (H903555-07)

BTEX 8021B

Result  93.5  264  165  176  698  104  mg	/kg		Method Blank  ND  ND  ND  ND  ND  ND  ND  ND  ND	BS 1.59 1.58 1.60 4.82	% Recovery 79.6 78.9 80.2 80.3	True Value QC 2.00 2.00 2.00 6.00	2.02 2.98 1.22 0.454	Qualifier QM-07 QM-07 QM-07 QM-07
264 165 176 698	5.00 5.00 15.0 30.0 % 73.3-12	10/18/2019 10/18/2019 10/18/2019 10/18/2019	ND ND ND	1.58 1.60	78.9 80.2	2.00 2.00	2.98 1.22	QM-07 QM-07
165 176 698	5.00 15.0 30.0 % 73.3-12 /kg	10/18/2019 10/18/2019 10/18/2019	ND ND ND	1.60	80.2	2.00	1.22	QM-07
176 698 104 mg	15.0 30.0 % 73.3-12 //kg	10/18/2019 10/18/2019	ND ND					
698	30.0 % 73.3-12 /kg	10/18/2019	ND	4.82	80.3	6.00	0.454	QM-07
104 mg	% 73.3-12 /kg	29						
mg	/kg		d By: AC					
		Analyze	d By: AC					
Result								
	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
256	16.0	10/18/2019	ND	432	108	400	0.00	
mg	/kg	Analyze	d By: MS					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4350	50.0	10/17/2019	ND	208	104	200	2.62	
7000	50.0	10/17/2019	ND	181	90.3	200	3.46	QM-07
1030	50.0	10/17/2019	ND					
-	Result 4350 7000	<b>4350</b> 50.0 <b>7000</b> 50.0	Result         Reporting Limit         Analyzed           4350         50.0         10/17/2019           7000         50.0         10/17/2019	Result         Reporting Limit         Analyzed         Method Blank           4350         50.0         10/17/2019         ND           7000         50.0         10/17/2019         ND	Result         Reporting Limit         Analyzed         Method Blank         BS           4350         50.0         10/17/2019         ND         208           7000         50.0         10/17/2019         ND         181	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           4350         50.0         10/17/2019         ND         208         104           7000         50.0         10/17/2019         ND         181         90.3	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           4350         50.0         10/17/2019         ND         208         104         200           7000         50.0         10/17/2019         ND         181         90.3         200	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           4350         50.0         10/17/2019         ND         208         104         200         2.62           7000         50.0         10/17/2019         ND         181         90.3         200         3.46

Analyzed By: BF

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

Celey D. Keene, Lab Director/Quality Manager

263 %

37.6-147



### Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: #1 -2C - 45' (H903555-08)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	15.2	1.00	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	43.8	1.00	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	30.1	1.00	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	33.1	3.00	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	122	6.00	10/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	287	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	716	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	107	10.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	106	% 41-142	?						
Surrogate: 1-Chlorooctadecane	114	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019
Reported: 10/18/2019
Project Name: 14/0/CON R #57

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

# Sample ID: #1 -2C - 50' (H903555-09)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	112	5.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	307	5.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	188	5.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	197	15.0	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	804	30.0	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5040	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	7980	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	1220	50.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	222	% 41-142	?						
Surrogate: 1-Chlorooctadecane	269	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: #1 -2C - 55' (H903555-10)

BTEX 8021B	mg	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	66.4	1.00	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	203	1.00	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	132	1.00	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	150	3.00	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	551	6.00	10/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2790	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	4870	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	739	50.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	177	% 41-142	?						
Surrogate: 1-Chlorooctadecane	208	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

# Sample ID: #1 -2C - 60' (H903555-11)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.633	0.050	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.633	0.050	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	0.170	0.050	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	0.181	0.150	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	1.62	0.300	10/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	91.1	% 41-142							
Surrogate: 1-Chlorooctadecane	91.8	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 65' (H903555-12)

Analyte

GRO C6-C10\*

DRO >C10-C28\*

EXT DRO >C28-C36

BTEX 8021B

98.5 % mg/l Result 32.0			d By: AC  Method Blank  ND	BS 432	% Recovery	True Value QC 400	RPD 0.00	Qualifier
mg/l	kg	Analyze		BS	% Recovery	True Value QC	RPD	Qualifier
			d By: AC					
98.5 %	73.3-12	9						
1.47	0.300	10/17/2019	ND					
<0.150	0.150	10/17/2019	ND	4.82	80.3	6.00	0.454	
0.193	0.050	10/17/2019	ND	1.60	80.2	2.00	1.22	
0.668	0.050	10/17/2019	ND	1.58	78.9	2.00	2.98	
0.480	0.050	10/17/2019	ND	1.59	79.6	2.00	2.02	
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	0.480 0.668 0.193 <0.150	0.480       0.050         0.668       0.050         0.193       0.050         <0.150	0.480       0.050       10/17/2019         0.668       0.050       10/17/2019         0.193       0.050       10/17/2019         <0.150	0.480       0.050       10/17/2019       ND         0.668       0.050       10/17/2019       ND         0.193       0.050       10/17/2019       ND         <0.150	0.480       0.050       10/17/2019       ND       1.59         0.668       0.050       10/17/2019       ND       1.58         0.193       0.050       10/17/2019       ND       1.60         <0.150	0.480       0.050       10/17/2019       ND       1.59       79.6         0.668       0.050       10/17/2019       ND       1.58       78.9         0.193       0.050       10/17/2019       ND       1.60       80.2         <0.150	0.480       0.050       10/17/2019       ND       1.59       79.6       2.00         0.668       0.050       10/17/2019       ND       1.58       78.9       2.00         0.193       0.050       10/17/2019       ND       1.60       80.2       2.00         <0.150	0.480       0.050       10/17/2019       ND       1.59       79.6       2.00       2.02         0.668       0.050       10/17/2019       ND       1.58       78.9       2.00       2.98         0.193       0.050       10/17/2019       ND       1.60       80.2       2.00       1.22         <0.150

Method Blank

ND

ND

ND

BS

208

181

% Recovery

104

90.3

True Value QC

200

200

RPD

2.62

3.46

Qualifier

Analyzed

10/17/2019

10/17/2019

10/17/2019

Analyzed By: BF

Surrogate: 1-Chlorooctane 94.9 % 41-142
Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Result

<10.0

<10.0

<10.0

Reporting Limit

10.0

10.0

10.0

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# Analytical Results For:

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

Received: 10/17/2019 Sampling Date: 10/15/2019 Reported: 10/18/2019 Sampling Type: Soil

Project Name: JACKSON B #57 Sampling Condition: Cool & Intact Sample Received By: Project Number: 2RP-5149 Jodi Henson

Project Location: JACKSON B #57

# Sample ID: #1 -2C - 70' (H903555-13)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	< 0.050	0.050	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	<0.300	0.300	10/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	94.4 9	% 41-142	1						
Surrogate: 1-Chlorooctadecane	99.1	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019 Sampling Date: 10/15/2019 Reported: 10/18/2019 Sampling Type: Soil

Project Name: JACKSON B #57 Sampling Condition: Cool & Intact Sample Received By: Project Number: 2RP-5149 Jodi Henson

Project Location: JACKSON B #57

# Sample ID: #1 -2C - 75' (H903555-14)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.108	0.050	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.265	0.050	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	0.175	0.050	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	0.197	0.150	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	0.745	0.300	10/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC				2.02 2.98 1.22	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	96.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

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# **Notes and Definitions**

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ND Analyte NOT DETECTED at or above the reporting limit

**RPD** Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

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

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name   Proj	Λ	Leceiv			11/1/2		4.5	4.09	I IV.	_		_					To		0							P
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Date   Date				1		-	-	+					H			H <sub>2</sub> SO <sub>4</sub>	- Ion o				III e					
### Temperature Upon Receipt:    Volatiles   Sample Hand Delivered by SamplerClient Rep. ?   Ups   DHL   Fedex   Volatiles   Standard   TAT						F	1		1			H		1		NaOH	7 #	ŧ			0					
### Temperature Upon Receipt:    Volatiles   Sample Hand Delivered by SamplerClient Rep. ?   Ups   DHL   Fedex   Volatiles   Standard   TAT	1					H	+		1							Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Cont	2			900					
### Temperature Upon Receipt:    Volatiles   Sample Hand Delivered by SamplerClient Rep. ?   Ups   DHL   Fedex   Volatiles   Standard   TAT	Ì			12												None	dilei				Teg					
### Temperature Upon Receipt:    Volatiles   Sample Hand Delivered by SamplerClient Rep. ?   Ups   DHL   Fedex   Volatiles   Standard   TAT		D	D	<u> </u>												Other ( Specify)	ľ				nog		,			
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(505) 393-2326 FAX (505) 393-2476

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October 18, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

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

Fax To: (575) 748-4131

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 10' (H903554-01)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	32.5	1.00	10/17/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	165	1.00	10/17/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	101	1.00	10/17/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	108	3.00	10/17/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	407	6.00	10/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1630	50.0	10/17/2019	ND	218	109	200	1.58	QM-07
DRO >C10-C28*	2610	50.0	10/17/2019	ND	222	111	200	1.29	QM-07
EXT DRO >C28-C36	344	50.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	162	% 41-142	!						
Surrogate: 1-Chlorooctadecane	185	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

# Sample ID: #1 -1C - 15' (H903554-02)

RTFY 8021R

B1EX 8021B	mg	/kg	Anaiyze	a By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	103	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	345	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	183	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	180	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	810	30.0	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3320	50.0	10/17/2019	ND	218	109	200	1.58	
DRO >C10-C28*	5100	50.0	10/17/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	657	50.0	10/17/2019	ND					
Surrogate: 1-Chlorooctane	206	% 41-142	•						
Surrogate: 1-Chlorooctadecane	263	% 37.6-14	7						

Analyzed By: BE

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

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

Fax To: (575) 748-4131

Received: 10/17/2019

Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

# Sample ID: #1 -1C - 20' (H903554-03)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	49.4	1.00	10/17/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	164	1.00	10/17/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	95.1	1.00	10/17/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	97.3	3.00	10/17/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	406	6.00	10/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3060	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	5580	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	887	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	213	% 41-142							
Surrogate: 1-Chlorooctadecane	246	% 37.6-14	7						

57.0 177

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Celey D. Keene



# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019 Project Name: JACKSON B #57

Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

# Sample ID: #1 -1C - 25' (H903554-04)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	55.7	1.00	10/17/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	159	1.00	10/17/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	88.8	1.00	10/17/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	91.0	3.00	10/17/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	395	6.00	10/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	19						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1850	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	3330	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	491	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	177	% 41-142	?						
Survegata: 1 Chloroctadacana	214	0/, 37.6.1/	17						

214 % Surrogate: 1-Chlorooctadecane 37.6-147

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Celey D. Keene



# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 30' (H903554-05)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	90.1	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	258	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	141	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	143	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	632	30.0	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1160	10.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	1270	10.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	191	10.0	10/18/2019	ND					

Analyzed By: BF

Surrogate: 1-Chlorooctane 140 % 41-142 Surrogate: 1-Chlorooctadecane 143 % 37.6-147

Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

# Sample ID: #1 -1C - 35' (H903554-06)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.57	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	41.1	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	37.4	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	43.7	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	131	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	322	10.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	942	10.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	106	10.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	126	% 41-142	?						
Surrogate: 1-Chlorooctadecane	131	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

# Sample ID: #1 -1C - 40' (H903554-07)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	32.6	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	142	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	86.5	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	105	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	366	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3050	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	7340	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1140	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	224	% 41-142	?						
Surrogate: 1-Chlorooctadecane	279	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

# Sample ID: #1 -1C - 45' (H903554-08)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	16.9	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	81.9	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	58.0	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	63.8	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	221	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1480	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	3000	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	355	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	166	% 41-142	?						
Surrogate: 1-Chlorooctadecane	202	% 37.6-14	7						

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Jodi Henson

Sample Received By:

# Analytical Results For:

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

Received: 10/17/2019 Sampling Date: 10/15/2019

Reported: 10/18/2019 Sampling Type: Soil
Project Name: JACKSON B #57 Sampling Condition: Cool & Intact

Project Number: 2RP-5149
Project Location: JACKSON B #57

# Sample ID: #1 -1C - 50' (H903554-09)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	38.5	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	131	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	81.0	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	83.5	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	334	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2130	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	3810	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	575	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	185	% 41-142	?						
Surrogate: 1-Chlorooctadecane	228	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

# Sample ID: #1 -1C - 55' (H903554-10)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.77	0.200	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	16.6	0.200	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	13.4	0.200	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	14.7	0.600	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	48.6	1.20	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	146	10.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	743	10.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	107	10.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	124	% 41-142	?						
Surrogate: 1-Chlorooctadecane	129	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019

Reported: 10/18/2019 Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

# Sample ID: #1 -1C - 60' (H903554-11)

BTEX 8021B	mg	/kg	Analyze	ed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	58.8	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	202	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	121	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	125	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	507	6.00	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6260	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	11000	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1760	50.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	283	% 41-142	?						
Surrogate: 1-Chlorooctadecane	359	% 37.6-14	7						

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# Analytical Results For:

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

Received: 10/17/2019 Reported: 10/18/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 10/15/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

# Sample ID: #1 -1C - 75' (H903554-12)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.558	0.050	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	0.914	0.050	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	0.591	0.050	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	0.779	0.150	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	2.84	0.300	10/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.9	10.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	250	10.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	45.0	10.0	10/18/2019	ND					
Surrogate: 1-Chlorooctane	110	% 41-142	?						
Surrogate: 1-Chlorooctadecane	121	% 37.6-14	7						

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#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

madux medicionario

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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# Page 15 of 16

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:	Chase Settle		Project Name:	Jackson B #57
Company Name	EOG Resources Inc.		Project #: 2RP-5149	2RP-5149
Company Address: 104 South 4th Street	104 South 4th Street		Project Loc:	Jackson B #57
City/State/Zip:	Artesia, NM 88210		PO#: <u>2</u> (	PO#: 205-0750
Telephone No:	575-748-1471	Fax No:	Report Format: X Standard	× Standard ☐ TRRP ☐ NPDES
Sampler Signature:		e-mail:	Chase Settle@eogresources.com	

ORDER #: (lab use only)

4005554

Preservation & # of Containers

.AB # (lab use only)

Standard	TAT
	U

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

× × × × × × × ×

Released to	Imaging:	3/22/2024		
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Received by Relinquished by:

Received by:

PH EXTENDED NEEDED

10/15/2019

11:43 AM 11:27 AM

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10/15/2019

10/15/2019

1:12 AM

× × × × × × × ×

10-1

17-19

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171101

Time Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)

Sample Containers Intact? VOCs Free of Headspace?

Laboratory Comments:

× × × × × ×

Sample Hand Delivered
by Sampler/Client Rep. ?
by Courier? UPS

Date

Ime

Temperature Upon Receiption

Ime

Date

Time

Received by ELOT:

#1-1C- 35

#1-1C- 25 #1-1C-20'

10/15/2019 10/15/2019 10/15/2019

9:58 AM 9:51 AM

10/15/2019

10/15/2019 10/15/2019

10:42 AM 10:29 AM 10:16 AM 10:05 AM

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×

10/15/2019

10:52 AM

#1-1C- 15' #1-1C-10'

FIELD CODE

Beginning Depth

**Ending Depth** 

Date Sampled

Time Sampled

Field Filtered Total #. of Containers

Ice

HNO<sub>3</sub> HCI

H<sub>2</sub>SO<sub>4</sub> NaOH Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None

TPH:

TPH:

Volatiles Semivolatiles BTEX: 8021B

RCI N.O.R.M.

Chlorides SAR

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TX 1005

Cations (Ca, Mg, Na, K)

SAR / ESP / CEC

Anions (CI, SO4, Alkalinity)

8015B EXTENDED

Metals: As Ag Ba Cd Cr Pb Hg Se

TX 1006

TOTAL TCLP:

#1-1C-30'

P	age 277 o	<del>f 36</del> 8
III	TO TO	16 of 16
	N I	Page 16
	ARDINAL LA 101 East Mar	Pa
	L L/ Mar	

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

Project Manager:

Chase Settle

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Jackson B #57

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

Rece	ived by	OCD	· 11/1	/20	123 4.	54:0	9 PA	1														
	ived by Relinquished by:			Special							7.	5 =	LAB # (lab use only)	ONUEN #:		(idb use offy)	105					
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Į.	Date	10-17-1	7	TPH EXTENDED NEEDED									FIELD CODE	0001	エスペペパオ		1	e: ////	575-748-1471	Artesia, NM 88210	s: 104 South 4th Street	EOG Resources Inc.
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	104	1 51/6									S	s	DW=Drinking Water SL=Sludge  GW = Groundwater S=Soil/Solid  NP=Non-Potable Specify Other	Matrix				e@eogresources.com	Report Format:			
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July 09, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 07/02/19 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

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

Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 2 - 30' (H902281-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	20.1	1.00	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	98.9	1.00	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	69.4	1.00	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	74.9	3.00	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	263	6.00	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17400	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1920	50.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	4470	50.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	683	50.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	256	% 41-142	?						
Surrogate: 1-Chlorooctadecane	221	% 37.6-14	7						

Analyzed By me

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

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

Received: 07/02/2019 Reported: 07/09/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 2 - 35' (H902281-02)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	0.635	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	1.95	0.050	07/08/2019 ND 1.70 85		85.1	2.00	3.28		
Total Xylenes*	2.87	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	5.46	0.300	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC				0.362 0.901 3.28	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	94.8	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	568	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	82.5	10.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	113 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	127	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

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

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 2 - 40' (H902281-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.268	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	1.47	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	2.44	0.050	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	3.23	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	7.41	0.300	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	46.6	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	310	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	54.3	10.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	?						
Surrogate: 1-Chlorooctadecane	119	% 37.6-14	7						

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Celey & Keene



# Analytical Results For:

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

Received: 07/02/2019 Reported: 07/09/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

# Sample ID: #2 - 3 - 30' (H902281-04)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.106	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	0.939	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	1.31	0.050	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	1.72	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	4.07	0.300	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	48.7	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	1060	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	234	10.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	?						
Surrogate: 1-Chlorooctadecane	140	% 37.6-14	7						

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Celeg D. Keene



# Analytical Results For:

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

Received: 07/02/2019 Reported: 07/09/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

# Sample ID: #2 - 3 - 35' (H902281-05)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.269	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	1.97	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	1.80	0.050	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	2.19	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	6.23	0.300	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	39.7	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	205	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	40.5	10.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	?						
Surrogate: 1-Chlorooctadecane	119	% 37.6-14	7						

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Celey D. Keene



# Analytical Results For:

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

Received: 07/02/2019 Sampling Date: 06/26/2019 Reported: 07/09/2019 Sampling Type: Soil

Project Name: JACKSON B #57 Sampling Condition: Cool & Intact Sample Received By: Project Number: 2RP-5149 Jodi Henson

Project Location: JACKSON B #57

# Sample ID: #2 - 4 - 30' (H902281-06)

RTFY 8021R

B1EX 8021B	mg	тд/кд		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.33	0.200	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	12.2	0.200	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	13.4	0.200	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	17.1	0.600	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	44.0	1.20	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	07/09/2019	09/2019 ND		108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	397	50.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	2850	50.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	<b>469</b> 5	50.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	157	% 41-142	?						
Surrogate: 1-Chlorooctadecane	172	% 376-14	17						

Analyzed By: me

Surrogate: 1-Chlorooctadecane 172 % 37.6-147

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Celey D. Keine



# Analytical Results For:

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

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

# Sample ID: #2 - 4 - 35' (H902281-07)

BTEX 8021B	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	0.715	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	1.42	0.050	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	1.98	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	4.11	0.300	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20600	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.7	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	284	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	42.0	10.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	?						
Surrogate: 1-Chlorooctadecane	119	% 37.6-14	17						

Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

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

Received: 07/02/2019 Reported: 07/09/2019 Project Name: JACKSON B #57

Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

# Sample ID: #2 - 4 - 40' (H902281-08)

BTEX 8021B	mg,	'kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/06/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	<0.050	0.050	07/06/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	< 0.050	0.050	07/06/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	<0.150	0.150	07/06/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	<0.300	0.300	07/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	19						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	<10.0	10.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	98.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	114 9	% 37.6-14	!7						

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# **Notes and Definitions**

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. ND Analyte NOT DETECTED at or above the reporting limit RPD Relative Percent Difference Samples not received at proper temperature of 6°C or below. Insufficient time to reach temperature. \*\*\* Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Standard TAT

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July 09, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 07/02/19 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 07/02/2019

 Reported:
 07/09/2019

 Project Name:
 JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #1 - 2 - 55' (H902280-01)

BTEX 8021B	mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.88	0.500	07/08/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	46.7	0.500	07/08/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	36.3	0.500	07/08/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	32.1	1.50	07/08/2019	ND	5.23	87.1	6.00	4.39	
Total BTEX	124	3.00	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/09/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	867	50.0	07/05/2019	ND	203	102	200	0.445	QR-03
DRO >C10-C28*	2130	50.0	07/05/2019	ND	213	107	200	0.589	QR-03, QM-07
EXT DRO >C28-C36	250	50.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	163	% 41-142	?						
Surrogate: 1-Chlorooctadecane	148	% 37.6-14	7						

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Celey D. Keene



### Analytical Results For:

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

Received: 07/02/2019 Reported:

07/09/2019 Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: #1 - 2 - 60' (H902280-02)

BTEX 8021B	mg	/kg	Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	87.8	2.00	07/08/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	348	2.00	07/08/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	267	2.00	07/08/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	226	6.00	07/08/2019	ND	5.23	87.1	6.00	4.39	
Total BTEX	928	12.0	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	127	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/09/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5880	50.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	12000	50.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	2110	50.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	502	% 41-142	?						
Surrogate: 1-Chlorooctadecane	359	% 37.6-14	7						

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### Analytical Results For:

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

Received: 07/02/2019 Reported: 07/09/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: #1 - 2 - 65' (H902280-03)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.354	0.050	07/08/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	0.610	0.050	07/08/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	0.128	0.050	07/08/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	<0.150	0.150	07/08/2019	ND	5.23	87.1	6.00	4.39	
Total BTEX	1.09	0.300	07/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	78.4	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	43.8	10.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	94.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	110	% 37.6-14	7						

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### Analytical Results For:

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

Received: 07/02/2019 Reported: 07/09/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #1 - 3 - 40' (H902280-04)

BTEX 8021B	mg	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	26.4	1.00	07/05/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	113	1.00	07/05/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	90.1	1.00	07/05/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	74.9	3.00	07/05/2019	ND	5.23	87.1	6.00	4.39	
Total BTEX	305	6.00	07/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/09/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2140	50.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	5050	50.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	757	50.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	262	% 41-142	?						
Surrogate: 1-Chlorooctadecane	217	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #1 - 3 - 50' (H902280-05)

BTEX 8021B	mg	/kg	Analyze	d By: BF					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	54.2	1.00	07/05/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	194	1.00	07/05/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	146	1.00	07/05/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	128	3.00	07/05/2019	ND	5.23	87.1	6.00	4.39	
Total BTEX	522	6.00	07/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	130	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3290	50.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	6470	50.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	1100	50.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	317	% 41-142	?						
Surrogate: 1-Chlorooctadecane	242	% 37.6-14	7						

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Received: 07/02/2019 Reported: 07/09/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: #1 - 3 - 60' (H902280-06)

BTEX 8021B	mg/	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.109	0.050	07/05/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	0.129	0.050	07/05/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	<0.050	0.050	07/05/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	<0.150	0.150	07/05/2019	ND	5.23	87.1	6.00	4.39	
Total BTEX	<0.300	0.300	07/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.8	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	19.1	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	24.5	10.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	101 5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 113 % 3/.6-14/

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Celeg D. Freene



### Analytical Results For:

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

Received: 07/02/2019 Reported: 07/09/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 06/26/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: #1 - 4 - 55' (H902280-07)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.313	0.050	07/06/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	0.510	0.050	07/06/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	0.182	0.050	07/06/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	0.167	0.150	07/06/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	1.17	0.300	07/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	19.5	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	<10.0	10.0	07/05/2019	ND					
Surrogate: 1-Chlorooctane	102	% 41-142	?						
Surrogate: 1-Chlorooctadecane	116	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 298

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Rece	the d by elliquished by:	OCD Similarished by		1/2 pecial Instructions:	023 4:	54:09	17-4-55	0 71-3-60	7.5	生 3-	2-1	4-2-	-2-14	FIELD	ORDER#: 111000	1909980	(lab use only)	Sampler Signature:	Telephone No: 575	City/State/Zip: Arte	Company Address: 105	Company Name EOC	Project Manager: Cha
	Date Date	Dan		TOH										CODE	C	>		1	575-748-1471	Artesia, NM 88210	105 South 4th Street	EOG Y Resources Inc.	Chase Settle
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June 26, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 06/25/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 06/25/2019

 Reported:
 06/26/2019

 Project Name:
 JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Tamara Oldaker

### Sample ID: #2-1 - 20' (H902171-01)

0.500 0.500 0.500 0.500 1.50	Analyzed 06/26/2019 06/26/2019 06/26/2019	Method Blank ND ND	BS 2.00 2.04	% Recovery 99.9 102	True Value QC 2.00	RPD 0.240	Qualifier
0.500 0.500	06/26/2019	ND				0.240	
0.500			2.04	102			
	06/26/2019			102	2.00	0.00766	
1.50		ND	1.93	96.7	2.00	1.92	
	06/26/2019	ND	5.86	97.6	6.00	1.91	
3.00	06/26/2019	ND					
6 73.3-12	9						
kg	Analyze	d By: AC					
Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	06/26/2019	ND	416	104	400	3.92	
kg	Analyze	d By: MS					S-06
Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
50.0	06/25/2019	ND	211	106	200	0.273	
50.0	06/25/2019	ND	201	100	200	1.36	
50.0	06/25/2019	ND					
% 41-142	!						
% 37.6-14	7						
9	Reporting Limit 50.0 50.0 50.0 41-142	Reporting Limit Analyzed 50.0 06/25/2019 50.0 06/25/2019 50.0 06/25/2019	Analyzed By: MS           Reporting Limit         Analyzed         Method Blank           50.0         06/25/2019         ND           50.0         06/25/2019         ND           50.0         06/25/2019         ND           50.0         06/25/2019         ND	Analyzed By: MS           Reporting Limit         Analyzed         Method Blank         BS           50.0         06/25/2019         ND         211           50.0         06/25/2019         ND         201           50.0         06/25/2019         ND         201           50.0         41-142         41-142         41-142	Reporting Limit         Analyzed         Method Blank         BS         % Recovery           50.0         06/25/2019         ND         211         106           50.0         06/25/2019         ND         201         100           50.0         06/25/2019         ND         201         100           50.0         06/25/2019         ND         201         201	Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           50.0         06/25/2019         ND         211         106         200           50.0         06/25/2019         ND         201         100         200           50.0         06/25/2019         ND         201         100         200           6/25/2019         ND         201         100         200         200	Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           50.0         06/25/2019         ND         211         106         200         0.273           50.0         06/25/2019         ND         201         100         200         1.36           50.0         06/25/2019         ND         201         100         200         1.36

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\*=Accredited Analyte

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### Analytical Results For:

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

Received: 06/25/2019 Reported: 06/26/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

ma/ka

Sampling Date: 06/25/2019

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Tamara Oldaker

### Sample ID: #2-1 - 25' (H902171-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	46.8	2.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	220	2.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	145	2.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	158	6.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	569	12.0	06/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	06/26/2019	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4920	50.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	8860	50.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	1390	50.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	296	% 41-142	?						
Surrogate: 1-Chlorooctadecane	369	% 37.6-14	7						

Analyzed By: me

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 06/25/2019 06/26/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 06/25/2019

Sampling Type:

Sampling Condition: \*\* (See Notes) Sample Received By: Tamara Oldaker

Soil

Sample ID: #2-1 - 30' (H902171-03)

Reported:

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	0.066	0.050	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	0.070	0.050	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	06/26/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	11.2	10.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	129	% 41-142	?						
Surrogate: 1-Chlorooctadecane	136	% 37.6-14	7						

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### Analytical Results For:

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

Received: 06/25/2019 Reported: 06/26/2019

ma/ka

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: #2-1 - 35' (H902171-04)

RTFY 8021R

BIEX 8021B	тд/кд		Anaiyze	ea By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	<0.050	0.050	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	<0.050	0.050	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-129	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	06/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	126	% 41-142							
Surrogate: 1-Chlorooctadecane	132	% 37.6-14	7						

Analyzed By: me

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Relinquished by:	Relinquished by:	Special Instructions:				442-1- 35'	3#2-1-301	292-1-251	1 #2-1- 20'	LAB # (lab use only)	ORDER #: 14902	(lab use only)	Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Comp: (505) 393-2326	Project Manager:
Date	Date 06/25/19 Date	ALL results in mg/kg.								FIELD CODE	171		SY	575-748-1	Artesia, NM 88210	105 South 4th Street	Comps (505) 393-2326 Yates Fetrologan Desperation	101 East Marland, Hobbs, NM 88240  Manager:
Time	2307 Time									Beginning Depth				17		20	7	14
ច	i Fi	hank								Ending Depth							9	
Received by ELOT:	Received by:	Thank you.				1,	11	11	6-25-19	Date Sampled							G Kes	(505) 393-2326 FAX (505) 393-2476
)T:	sha ch	tendel 7				11:38	11:26	11:15	11:06	Time Sampled			e-mail:	Fax No:			esources	FAX (505) 393
	Mr.	Hd								Field Filtered	1		ř	ĩ			1-1	-2476
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=	0005	< 0 L						_	_	TPH: TX 1005 TX 1006 Cations (Ca, Mg, Na, K)			50	at:	PO #:	. Loc	ect #	lame
Temperature Upon Receipt:	Labels on container(s) Custody seals on container Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?				×	×	X	×	Anions (CI)	$\dashv_{\bar{z}}$		0110	×	<i></i> 		. <del></del>	"   , ,
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June 26, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 06/25/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 06/25/2019

Reported: 06/26/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149

Project Location: JACKSON B #57

Sampling Date: 06/25/2019

Sampling Type: Soil

Sampling Condition: \*\* (See Notes)
Sample Received By: Tamara Oldaker

### Sample ID: #1-1 - 20' (H902170-01)

Toluene*         312         2.00         06/26/2019         ND         2.04         102         2.00         0.0076           Ethylbenzene*         181         2.00         06/26/2019         ND         1.93         96.7         2.00         1.92           Total Xylenes*         181         6.00         06/26/2019         ND         5.86         97.6         6.00         1.91           Total BTEX         773         12.0         06/26/2019         ND         ND         5.86         97.6         6.00         1.91           Surrogate: 4-Bromofluorobenzene (PID         109 %         73.3-129         Analyzed By: AC         Analyzed By: AC         METODO CO.         ND         416         104         400         3.92           Chloride         9060         16.0         06/26/2019         ND         416         104         400         3.92           TPH 8015M         mg/kg         Analyzed By: MS         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         3630         50.0         06/25/2019         ND         211         106         200         0.273           DRO >C10-C28*         8640         50.0         06/25/2019	BTEX 8021B	mg/kg		Analyze	d By: ms					
Toluene*         312         2.00         06/26/2019         ND         2.04         102         2.00         0.0076           Ethylbenzene*         181         2.00         06/26/2019         ND         1.93         96.7         2.00         1.92           Total Xylenes*         181         6.00         06/26/2019         ND         5.86         97.6         6.00         1.91           Total BTEX         773         12.0         06/26/2019         ND         ND         5.86         97.6         6.00         1.91           Surrogate: 4-Bromofluorobenzene (PID         109 %         73.3-129         Analyzed By: AC         Analyzed By: AC         Analyzed By: AC         Method Blank         BS         % Recovery         True Value QC         RPD           Chloride         9060         16.0         06/26/2019         ND         416         104         400         3.92           TPH 8015M         mg/kg         Analyzed By: MS         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         3630         50.0         06/25/2019         ND         211         106         200         0.273           DRO >C10-C28*         8640         50.0 <th>Analyte</th> <th>Result</th> <th>Reporting Limit</th> <th>Analyzed</th> <th>Method Blank</th> <th>BS</th> <th>% Recovery</th> <th>True Value QC</th> <th>RPD</th> <th>Qualifier</th>	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene*         181         2.00         06/26/2019         ND         1.93         96.7         2.00         1.92           Total Xylenes*         181         6.00         06/26/2019         ND         5.86         97.6         6.00         1.91           Total BTEX         773         12.0         06/26/2019         ND         ND         7.6         6.00         1.91           Surrogate: 4-Bromofluorobenzene (PID         109 %         73.3-129         7.7 <td>Benzene*</td> <td>98.5</td> <td>2.00</td> <td>06/26/2019</td> <td>ND</td> <td>2.00</td> <td>99.9</td> <td>2.00</td> <td>0.240</td> <td></td>	Benzene*	98.5	2.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Total Xylenes*         181         6.00         06/26/2019         ND         5.86         97.6         6.00         1.91           Total BTEX         773         12.0         06/26/2019         ND         ND         4.00         1.91           Surrogate: 4-Bromofluorobenzene (PID         109 %         73.3-129         Analyzed By: AC         C         C           Analyte         Result Reporting Limit Analyzed Method Blank BS         % Recovery True Value QC         RPD           Chloride         9060         16.0         06/26/2019         ND         416         104         400         3.92           TPH 8015M         mg/kg         Analyzed By: MS         Method Blank BS         % Recovery         True Value QC         RPD           GRO C6-C10*         3630         50.0         06/25/2019         ND         211         106         200         0.273           DRO >C10-C28*         8640         50.0         06/25/2019         ND         201         100         200         1.36           EXT DRO >C28-C36         1400         50.0         06/25/2019         ND         201         100         200         1.36	Toluene*	312	2.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Total BTEX         773         12.0         06/26/2019         ND           Surrogate: 4-Bromofluorobenzene (PID         109 %         73.3-129           Chloride, SM4500Cl-B         mg/kg         Analyzed By: AC           Analyte         Result         Reporting Limit         Analyzed By: AC           Chloride         9060         16.0         06/26/2019         ND         416         104         400         3.92           TPH 8015M         mg/kg         Analyzed By: MS         Analyzed By: MS           Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         3630         50.0         06/25/2019         ND         211         106         200         0.273           DRO >C10-C28*         8640         50.0         06/25/2019         ND         201         100         200         1.36           EXT DRO >C28-C36         1400         50.0         06/25/2019         ND         ND         201         100         200         1.36	Ethylbenzene*	181	2.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Surrogate: 4-Bromofluorobenzene (PID         109 % 73.3-129           Chloride, SM4500Cl-B         mg/kg         Analyzed By: AC           Analyte         Result         Reporting Limit         Analyzed By: AC           Chloride         9060         16.0         06/26/2019         ND         416         104         400         3.92           TPH 8015M         mg/kg         Analyzed By: MS         Analyzed By: MS         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         3630         50.0         06/25/2019         ND         211         106         200         0.273           DRO >C10-C28*         8640         50.0         06/25/2019         ND         201         100         200         1.36           EXT DRO >C28-C36         1400         50.0         06/25/2019         ND         ND         201         100         200         1.36	Total Xylenes*	181	6.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Chloride, SM4500Cl-B         mg/kg         Analyzed By: AC           Analyte         Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD           Chloride         9060 16.0 06/26/2019 ND 416 104 400 3.92           TPH 8015M         mg/kg         Analyzed By: MS           Analyte         Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD           GRO C6-C10*         3630 50.0 06/25/2019 ND 211 106 200 0.273           DRO >C10-C28*         8640 50.0 06/25/2019 ND 201 100 200 1.36           EXT DRO >C28-C36         1400 50.0 06/25/2019 ND	Total BTEX	773	12.0	06/26/2019	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  Chloride 9060 16.0 06/26/2019 ND 416 104 400 3.92  TPH 8015M mg/kg Analyzed By: MS  Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10* 3630 50.0 06/25/2019 ND 211 106 200 0.273  DRO >C10-C28* 8640 50.0 06/25/2019 ND 201 100 200 1.36  EXT DRO >C28-C36 1400 50.0 06/25/2019 ND  Surrogate: 1-Chlorooctane 266 % 41-142	Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	19						
Chloride         9060         16.0         06/26/2019         ND         416         104         400         3.92           TPH 8015M         mg/kg         Analyzed By: MS         MS         Recovery         True Value QC         RPD           Analyte         Result         Reporting Limit         Analyzed Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         3630         50.0         06/25/2019         ND         211         106         200         0.273           DRO >C10-C28*         8640         50.0         06/25/2019         ND         201         100         200         1.36           EXT DRO >C28-C36         1400         50.0         06/25/2019         ND         ND         201         100         200         1.36	Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
TPH 8015M         mg/kg         Analyzed By: MS           Analyte         Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           GRO C6-C10*         3630         50.0         06/25/2019         ND         211         106         200         0.273           DRO >C10-C28*         8640         50.0         06/25/2019         ND         201         100         200         1.36           EXT DRO >C28-C36         1400         50.0         06/25/2019         ND         ND         Surrogate: 1-Chlorooctane         266 %         41-142	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  GRO C6-C10* 3630 50.0 06/25/2019 ND 211 106 200 0.273  DRO >C10-C28* 8640 50.0 06/25/2019 ND 201 100 200 1.36  EXT DRO >C28-C36 1400 50.0 06/25/2019 ND  Surrogate: 1-Chlorooctane 266 % 41-142	Chloride	9060	16.0	06/26/2019	ND	416	104	400	3.92	
GRO C6-C10*         3630         50.0         06/25/2019         ND         211         106         200         0.273           DRO >C10-C28*         8640         50.0         06/25/2019         ND         201         100         200         1.36           EXT DRO >C28-C36         1400         50.0         06/25/2019         ND   Surrogate: 1-Chlorooctane	TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
DRO >C10-C28*         8640         50.0         06/25/2019         ND         201         100         200         1.36           EXT DRO >C28-C36         1400         50.0         06/25/2019         ND   Surrogate: 1-Chlorooctane           266 %         41-142	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 1400 50.0 06/25/2019 ND  Surrogate: 1-Chlorooctane 266 % 41-142	GRO C6-C10*	3630	50.0	06/25/2019	ND	211	106	200	0.273	
Surrogate: 1-Chlorooctane 266 % 41-142	DRO >C10-C28*	8640	50.0	06/25/2019	ND	201	100	200	1.36	
	EXT DRO >C28-C36	1400	50.0	06/25/2019	ND					
Surrogate: 1-Chlorooctadecane 361 % 37.6-147	Surrogate: 1-Chlorooctane	266	% 41-142	?						
	Surrogate: 1-Chlorooctadecane	361	% 37.6-14	17						

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Freene



### Analytical Results For:

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

Fax To: (575) 748-4131

Received: 06/25/2019 Sampling Date: 06/25/2019 Reported: Sampling Type: 06/26/2019 Soil

Project Name: JACKSON B #57 Sampling Condition: \*\* (See Notes) Project Number: 2RP-5149 Sample Received By: Tamara Oldaker

Project Location: JACKSON B #57

### Sample ID: #1-1 - 25' (H902170-02)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	38.1	1.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	131	1.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	83.1	1.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	89.8	3.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	342	6.00	06/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	06/26/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1690	50.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	6570	50.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	1180	50.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	225	% 41-142	!						
Surrogate: 1-Chlorooctadecane	311	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

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

Received: 06/25/2019 Reported: 06/26/2019

Project Name: JACKSON B #57 Project Number: 2RP-5149 Project Location: JACKSON B #57 Sampling Date: 06/25/2019

Sampling Type: Soil

Sampling Condition: \*\* (See Notes) Sample Received By: Tamara Oldaker

### Sample ID: #1-1 - 35' (H902170-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	28.3	1.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	113	1.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	79.0	1.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	87.8	3.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	308	6.00	06/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	06/26/2019	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1780	50.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	6490	50.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	1120	50.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	219	% 41-142	?						
Surrogate: 1-Chlorooctadecane	305	% 37.6-14	7						

### Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



### Analytical Results For:

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

Tax 10. (3/3) /40-41.

 Received:
 06/25/2019
 Sampling Date:
 06/25/2019

 Reported:
 06/26/2019
 Sampling Type:
 Soil

Project Name: JACKSON B #57 Sampling Condition: \*\* (See Notes)
Project Number: 2RP-5149 Sample Received By: Tamara Oldaker

Project Location: JACKSON B #57

### Sample ID: #1-1 - 40' (H902170-04)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.1	1.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	54.4	1.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	50.3	1.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	62.2	3.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	178	6.00	06/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	06/26/2019	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1320	50.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	7190	50.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	1160	50.0	06/25/2019	ND					
Surrogate: 1-Chlorooctane	236	% 41-142	?						
Surrogate: 1-Chlorooctadecane	333	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene

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	Page 7 of 7	
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# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Recei	yed by elinquished by:	11/1/2 becial instructions:	023	4:54:	09 P		101-1-144	3世-1-35	30	2 #1-1-25/	1 #/-/-20	LAB # (lab use only) FIELD CODE	ORDER #: 11962170	(lab use only)	Sampler Signature:	Telephone No:	City/State/Zip: Art	Company Address: 105 South 4th Street	Compt (505) 393-232 <del>6 Yates Petroleum Corporation</del>	Project Manager:	ARDINAL LABORATORIES  101 East Marland, Hobbs, NM 88240
Date	Date Date	ALL results in mg/kg.														575-748-141	Artesia, NM 88210	South 4th Street	tes Petroleum Corporation	huse Sett	RATORIES Hobbs, NM 88240
ā	CA.			-	+							Beginning Depth  Ending Depth	-			1)			D	//	1
Received by ELOI:		I hank you.					7.7	11		//	6-25-19	Date Sampled							R Resour	<b>x</b>	(505) 393-2326
	us de	tended TI					1:12	1:10		12:56	12:44	Time Sampled			e-mail:	Fax No:			15 I		(505) 393-2326 FAX (505) 393-2476
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ature	sea sea Han ampl	Con			1				1		-	SAR / ESP / CEC		TCLP:		Star			1	81	
Temperature Upon Receipt:	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS DI	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?		_	-(	Н		$\dashv$		_		Metals: As Ag Ba Cd Cr Pb Hg	Se	H A	0	× Standard			0	2	
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February 06, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 01/30/2019

 Reported:
 02/06/2019

 Project Name:
 JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019

Sampling Type: Soil

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

### **Sample ID: #2 SIDEWALLS (H900341-01)**

BTEX 8021B	mg,	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	0.085	0.050	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	0.073	0.050	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	<0.300	0.300	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	167	83.5	200	0.387	
DRO >C10-C28*	17.4	10.0	02/01/2019	ND	179	89.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	88.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.8	% 37.6-14	7						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Page 4 of 4

ARDINAL LABORATORIES

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

lackson B #57

Project Loc:

Jackson B

#57

PO #: 205-0750

x Standard

L TRRP

NPDES

Standard TAT

Project #: 2RP-5149

ORDER #: (lab use only) LAB # (lab use only) Project Manager: Telephone No: City/State/Zip: Company Address: 105 South 4th Street Company Name Sampler Signature: 101 East Marland, Hobbs, NM 88240 EOG Y Resources Inc. Chase Settle 575-748-4171 Artesia, NM 88210 (505) 393-2326 FAX (505) 393-2476 Fax No: e-mail: Chase Settle@eogresources.com Report Format:

Received by: 11/1/2023 4:54:09 PM
pecial Instructions: #2 Sidewalls FIELD CODE TPH EXTENDED NEEDED 1-30-18 Date 11:30 Beginning Depth Time Time me **Ending Depth** Received by ELOT: Received by: /29/2019 **Date Sampled** 3:52 AM Time Sampled Field Filtered Total #. of Containers × Ice HNO<sub>3</sub> HCI H<sub>2</sub>SO<sub>4</sub> NaOH Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> None Other (Specify) Date DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid S NP=Non-Potable Specify Other 14:00 Time 8015B EXTENDED Time TPH: TX 1005 TX 1006 TPH: Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS Sample Containers Intact? Custody seals on cooler(s) Labels on container(s)
Custody seals on container(s) VOCs Free of Headspace? Temperature Upon Receipt: Cations (Ca, Mg, Na, K) Laboratory Comments: Anions (CI, SO4, Alkalinity) TCLP: SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Analyze For: Volatiles Semivolatiles BTEX: 8021B RCI N.O.R.M. Chlorides SAR ZZZZZZ റ് RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Released to Imaging: 3/22/2024 8:59:38 AM



February 06, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 01/30/2019
Reported: 02/06/2019
Project Name: 14/0/50N R #57

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019

Sampling Type: Soil

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

### Sample ID: #1 SIDEWALLS (H900340-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.126	0.050	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	0.243	0.050	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	0.154	0.050	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	0.179	0.150	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	0.701	0.300	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	167	83.5	200	0.387	
DRO >C10-C28*	20.1	10.0	02/01/2019	ND	179	89.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	94.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	95.7	% 37.6-14	7						

Analyzed By me

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Page 4	7	of 4
	1	-

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: City/State/Zip: Company Address: 105 South 4th Street Company Name Telephone No: ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 0.0 Chase Settle Artesia, NM 88210 EOG Y Resources Inc. (505) 393-2326 FAX (505) 393-2476 Fax No: 5 Report Format: X Standard Project Name: Project Loc: Project #: 2RP-5149

PO #: 205-0750

TRRP

NPDES

Jackson B #57

Jackson B #57

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ature	Sample Hand Delivered by Sampler/Client Rep by Courier? UPS	Labels on container(s) Custody seals on cont Custody seals on coole	Cor	_								SAR / ESP / CEC		P.	TCLP:	
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Pē	lient	n co	ers	<u> </u>						$\perp$		Volatiles	Š			Analyze
Rece	nple Hand Delivered by Sampler/Client Rep.?	Custody seals on cooler(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	-								Semivolatiles				e For:
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February 06, 2019

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

RE: JACKSON B #57

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

 Received:
 01/30/2019
 Sampling Date:
 01/29/2019

 Reported:
 02/06/2019
 Sampling Type:
 Soil

Project Name: JACKSON B #57 Sampling Condition: Cool & Intact
Project Number: 2RP-5149 Sample Received By: Tamara Oldaker

Project Location: JACKSON B #57

### Sample ID: #2 - 7' (H900338-01)

BTEX 8021B	mg,	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	53.9	2.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	228	2.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	139	2.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	146	6.00	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	567	12.0	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4460	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	7860	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1170	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	216	% 41-142	!						
Surrogate: 1-Chlorooctadecane	271	% 37.6-14	7						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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### Analytical Results For:

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

Received: 01/30/2019

Reported: 02/06/2019 Project Name: JACKSON B #57 Project Number: 2RP-5149

Project Location: JACKSON B #57 Sampling Date: 01/29/2019

Sampling Type: Soil

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

### Sample ID: #2 - 9' (H900338-02)

BTEX 8021B	mg,	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	44.1	2.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	185	2.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	119	2.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	125	6.00	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	473	12.0	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3730	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	7300	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	894	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	219	% 41-142	?						
Surrogate: 1-Chlorooctadecane	263	% 37.6-14	7						

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\*=Accredited Analyte

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### Analytical Results For:

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

Received: 01/30/2019

Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019

Sampling Type: Soil

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

### Sample ID: #2 - 11' (H900338-03)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.7	2.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	109	2.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	78.0	2.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	83.9	6.00	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	292	12.0	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1810	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	3970	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	554	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	168	% 41-142	?						
Surrogate: 1-Chlorooctadecane	193	% 37.6-14	7						

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Celey D. Keene



## Analytical Results For:

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

Fax To: (575) 748-4131

Received: 01/30/2019

Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019

Sampling Type: Soil

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

## Sample ID: #2 - 13' (H900338-04)

BTEX 8021B	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.8	1.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	101	1.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	72.1	1.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	77.6	3.00	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	273	6.00	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1810	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	4300	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	526	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	171	% 41-142	?						
Surrogate: 1-Chlorooctadecane	197	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keine



## Analytical Results For:

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

mg/kg

 Received:
 01/30/2019
 Sampling Date:
 01/29/2019

 Reported:
 02/06/2019
 Sampling Type:
 Soil

Project Name: JACKSON B #57 Sampling Condition: Cool & Intact
Project Number: 2RP-5149 Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: JACKSON B #57

## Sample ID: #2 - 15' (H900338-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. III3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	150	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	439	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	243	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	256	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	1090	30.0	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8570	50.0	02/01/2019	ND	210	105	200	4.32	QM-07
DRO >C10-C28*	13000	50.0	02/01/2019	ND	210	105	200	0.805	QM-07
EXT DRO >C28-C36	1930	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	321	% 41-142							
Surrogate: 1-Chlorooctadecane	393	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### **Notes and Definitions**

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ND Analyte NOT DETECTED at or above the reporting limit

**RPD** Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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February 06, 2019

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

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



## Analytical Results For:

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

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57

Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019

Sampling Type: Soil

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

Sample ID: #1 - 7' (H900337-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	92.7	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	440	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	277	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	293	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	1100	30.0	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/02/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9720	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	15600	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	2230	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	352	% 41-142	?						
Surrogate: 1-Chlorooctadecane	446	% 37.6-14	7						

Analyzed By me

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



## Analytical Results For:

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

Received: 01/30/2019 Reported: 02/06/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

ma/ka

Sampling Date: 01/29/2019

Sampling Type: Soil

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

## Sample ID: #1 - 9' (H900337-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	159	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	516	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	292	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	301	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	1270	30.0	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	02/02/2019	ND	400	100	400	7.69	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7250	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	11900	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1790	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	283	% 41-142	?						
Surrogate: 1-Chlorooctadecane	356	% 37.6-14	7						

Analyzed By: me

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## Analytical Results For:

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

Received: 01/30/2019 Reported: 02/06/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019

Sampling Type: Soil

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

## Sample ID: #1 - 11' (H900337-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	154	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	424	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	226	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	229	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	1030	30.0	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5310	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	8520	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1310	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	230	% 41-142	?						
Surrogate: 1-Chlorooctadecane	286	% 37.6-14	7						

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## Analytical Results For:

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

Received: 01/30/2019 Reported: 02/06/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019

Sampling Type: Soil

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

## Sample ID: #1 - 13' (H900337-04)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	94.4	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	347	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	210	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	216	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	867	30.0	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4700	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	8200	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1200	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	180	% 41-142							
Surrogate: 1-Chlorooctadecane	272	% 37.6-14	7						

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## Analytical Results For:

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

Received: 01/30/2019 Reported: 02/06/2019

Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019

Sampling Type: Soil

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

## Sample ID: #1 - 15' (H900337-05)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	183	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	491	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	265	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	264	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	1200	30.0	02/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6990	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	10900	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1660	50.0	02/01/2019	ND					
Surrogate: 1-Chlorooctane	289	% 41-142	?						
Surrogate: 1-Chlorooctadecane	347	% 37.6-14	7						

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## **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

QM-07

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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\ D	Page 8

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ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Recei	red by	OCD.	11/	1/3 P	<del>923  4</del> :	:54:09	PM—	,							S		(lab								Pa
inquis	inquis	M Inguis		ecial				5	T	3	4	-	LAB # (lab use only)	ľ	ORDER #:		(lab use only)								
Receipelinquished by:	shedrby:	sped by:		Instructions:		:54:09		#1-15'	#1-13'	#1-11'	#1-9'	#1-7'		Annual Control of the last of			only)		Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	100 mm 10	Project Manager:
Date	Date	1-30/K		TPH EXTENDED NEEDED!									FIELD CODE		770001	1001			re:	575-748-4171	Artesia, NM 88210	ss: 105 South 4th Street	EOG Y Resources Inc		Chase Settle
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pon	Clier	aine on c	ners	mm									Volatiles					Analyze		d.					
Temperature Upon Receipt:	Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:									Semivolatiles				Ц	e For:		_		Jac			Jac
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Jackson B #57 Closure Report nAB1900435050



October 31, 2023

# Appendix C Bore Logs

energy opportunity growth

## STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Jackson B #57
PROJECT NUMBER: 12566090

CLIENT: EOG Resources

LOCATION: Eddy County, New Mexico

HOLE DESIGNATION: CB-1
DATE COMPLETED: 19 April 2023

DRILLING METHOD:

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH BGS	~		SAMF		
				NUMBER	INTERVAL	REC (%)	'N" VALUE	
	100% very fine sand; light brown.							
2								
4			]					
6								
8								
10	100% very fine sand; light brown.		10.00	CB-1A (10				
12	100 / Very line said, light brown.							
14			15.00	CB-1A (15 ft)				
16	90% very fine sand; rusty brown. 10% clay; rusty brown.			11)				
18								
				CB-1A (20				
20	100% very fine sand; rusty brown.		20.00	CB-1A (20 ft)				
22								
24								
26	100% very fine sand; rusty brown.		25.00	CB-1A (25 ft)				
- 28								
30	100% very fine sand; rusty brown.		30.00	CB-1A (30 ft)				
32								
34	100% very fine sand; bright rusty brown.		35.00	CB-1A (35 ft)				
36	100 % very line sand, bright fusty brown.							
- 38								
40			40.00	CB-1A (40 ft)				
	100% very fine sand; rusty brown.		.0.00	(t)				
42								
44				CD 1A (AF				
46	100% very fine sand; rusty brown.		45.00	CB-1A (45 ft)				
NC	<u>OTES:</u> MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRI	ENT ELEVATION T	ABLE					
	CHEMICAL ANALYSIS							

## STRATIGRAPHIC LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Jackson B #57

PROJECT NUMBER: 12566090 CLIENT: EOG Resources

LOCATION: Eddy County, New Mexico

HOLE DESIGNATION: CB-1
DATE COMPLETED: 19 April 2023

DRILLING METHOD:

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS			SAMF		
11 000		BG3	NUMBER	INTERVAL	REC (%)	'N" VALUE	
- 50		50.00	CB-1A (50 ft)				
	90% very fine sand; rusty brown. 10% clay; rusty brown	00.00	#)				
- 52 - 54							
	90% very fine sand; rusty brown. 10% clay; rusty brown	55.00	CB-1A (55 ft)				
<del>-</del> 56							
- 58							
- 60	50% very fine sand; rusty brown. 50% clay; rusty brown	60.00	CB-1A (60 ft)				
62							
64		65.00	CB-1A (65 ft)				
66	50% very fine sand; rusty brown. 50% clay; rusty brown		II)				
68							
70	80% very fine sand; rusty brown. 20% clay; rusty brown	70.00	CB-1A (70 ft)				
72							
74		75.00	CB-1A (75				
-70 -72 -74 -76 -78 -80 -82	END OF BOREHOLE @ 75.00ft BGS	75.00	CB-1A (75				
78							
80							
82							
84							
86							
- 88							
- 90							
92							
94							
NC	DTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TA	ABLE					
	CHEMICAL ANALYSIS						

## STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Jackson B #57
PROJECT NUMBER: 12566090

T NUMBER: 12566090 DA

CLIENT: EOG Resources

LOCATION: Eddy County, New Mexico

HOLE DESIGNATION: CB-2
DATE COMPLETED: 19 April 2023

DRILLING METHOD:

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH BGS	~		SAMF		
				NUMBER	INTERVAL	REC (%)	'N" VALUE	
	100% very fine sand; rusty brown.							
2								
4								
4								
6								
8								
10	80% very fine sand; rusty brown. 20% clay; rusty brown		10.00	CB-2A (10				
12	2070 1019 04.14, 14019 2101111 2270 0429, 14019 2101111							
14	000/		15.00	CB-2A (15				
16	80% very fine sand; rusty brown. 20% clay; rusty brown			i,				
18								
20			20.00	CB-2A (20 ft)				
	80% very fine sand; rusty brown. 20% clay; rusty brown		20.00	(#)				
22								
24				CB-2A (25 ft)				
26	90% very fine sand; rusty brown. 10% clay; rusty brown		25.00	(2) (E)				
- 28								
30	90% very fine sand; rusty brown. 10% clay; rusty brown		30.00	CB-2A (30 ft)				
- 32								
34								
	100% very fine sand; rusty brown.		35.00	CB-2A (35 ft)				
- 36								
- 38								
40	80% very fine sand; rusty brown. 20% clay; rusty brown	10.50 S	40.00	CB-2A (40 ft)				
-42								
44	1000/ your fine cond. Furth brown		45.00	CB-2A (45 ft)				
46	100% very fine sand; rusty brown.							
	NEGO MEACURINO DOINT ELEVATIONO MAY QUANCE DEFENTO OUR	ENT ELE MATION T	ADI					
<u>INC</u>	OTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURF	ENTELEVATION I	ADLE					
	CHEMICAL ANALYSIS							

## STRATIGRAPHIC LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Jackson B #57
PROJECT NUMBER: 12566090

PROJECT NUMBER: 12566090
CLIENT: EOG Resources

LOCATION: Eddy County, New Mexico

HOLE DESIGNATION: CB-2
DATE COMPLETED: 19 April 2023

DRILLING METHOD:

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS				SAMPLE	
			NUMBER	INTERVAL	REC (%)	'N" VALUE	
			CR-24 (50				
-50	END OF BOREHOLE @ 50.00ft BGS	50.00	CB-2A (50 ft)				
-50 -52 -54 -56 -58 -60 -62 -64 -66 -68							
- 54							
- 56							
- 58							
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- 94 							
NC	<u>DTES:</u> MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TA	ABLE		l			<u> </u>
	CHEMICAL ANALYSIS						

## eog resources

## **BORE LOG**

PROJECT NAME: Jackson B #57 LOCATION: 32.861345, -103.926872

IDENTIFICATION: 1-1C

DEPTH FEET BGS	SOIL CHARACTERISTICS	SAMPLE BGS	SAMPLE ID	MOISTURE
0				
5	Fine sand, light brown 0-15', High odor			
10		10	1-1C-10	
15		15	1-1C-15	
20	Fine sand, small amount of clay, reddish brown 15-30', High	20	1-1C-20	
25	odor 25	25	1-1C-25	
30		30	1-1C-30	
35		35	1-1C-35	
40	Fire and links have 25 FF Middle Law adam	40	1-1C-40	None
45	Fine sand, light brown 35-55, Mid to Low odor	45	1-1C-45	
50		50	1-1C-50	
55		55	1-1C-55	
60		60	1-1C-60	
65	Fine sand, brown 55-75', 60' strong odor, 75' none bit dropped fast about 64' blowing past 65 & 70 points,			
70	boring ended at 75 feet			
75		75	1-1C-75	
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				
140				
145				
150				<u> </u>

## eog resources

## **BORE LOG**

PROJECT NAME: Jackson B #57 LOCATION: 32.861356, -103.926878

IDENTIFICATION: 1-2C

DEPTH FEET BGS	SOIL CHARACTERISTICS	SAMPLE BGS	SAMPLE ID	MOISTURE
0				
5	Fine sand, light brown 0-15', High odor			
10		10	1-2C-10	
15		15	1-2C-15	
20		20	1-2C-20	
25	ine sand, clay dispersed in areas, reddish brown 15-60', Mid to	25	1-2C-25	
30		30	1-2C-30	
35		35	1-2C-35	
40	High odor	40	1-2C-40	None
45		45	1-2C-45	
50	Fine sand, brown 55-75', 60' strong odor, 75' none	50	1-2C-50	
55		55	1-2C-55	-
60		60	1-2C-60	_
65		65	1-2C-65	_
70		70	1-2C-70	-
75		75	1-2C-75	
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				
140				
145				
150				

## **eog resources**

## **BORE LOG**

PROJECT NAME: Jackson B #57 LOCATION: 32.861299, -103.927152

IDENTIFICATION: 2-1C

DEPTH FEET BGS	SOIL CHARACTERISTICS	SAMPLE BGS	SAMPLE ID	MOISTURE
0				
5				
10	Fine Sand, Brown, 0-20', Mid to High odor	10	2-1C-10	
15	15	2-1C-15		
20	20 25 30	20	2-1C-20	-
25		25	2-1C-25	-
30		30	2-1C-30	None
35 Fine Sand, Reddish brown, 25-50', No odor, boring ended at 5	Fine Sand, Reddish brown, 25-50', No odor, boring ended at 50'	35	2-1C-35	_
40	40 45 45	40	2-1C-40	_
45		45	2-1C-45	
50		50	2-1C-50	
55				
60				
65				
70				
75				
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## **S**eog resources

## **BORE LOG**

PROJECT NAME: Jackson B #57 LOCATION: 32.861309, -103.927154

IDENTIFICATION: 2-2C

DEPTH FEET BGS	SOIL CHARACTERISTICS	SAMPLE BGS	SAMPLE ID	MOISTURE
0				
5	Fine Sand, Brown, 0-20', Mid to High odor, will not meet closure criteria, boring ended at 20'			
10		10	2-2C-10	None
15		15	2-2C-15	
20		20	2-2C-20	
25				
30				
35				
40				
45				
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Jackson B #57 Closure Report nAB1900435050



October 31, 2023

# **Appendix D**Site Photographs

energy opportunity growth



Area 1- east side of road



Area 2- west side of road

Released to Imaging: 3/22/2024 8:59:38 AM

Jackson B #57 Closure Report nAB1900435050



October 31, 2023

# **Appendix E**Agency Correspondence

energy opportunity growth

From: <u>Tina Huerta</u>

To: ocd.enviro@emnrd.nm.gov; blm nm cfo spill@blm.gov
Cc: Artesia S&E Spill Remediation; Artesia Regulatory

Subject: Jackson B 57 (NAB1900435050 / 2RP-5149) Sampling Notification

**Date:** Friday, September 22, 2023 9:55:01 AM

Attachments: <u>image001.png</u>

## Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Jackson B 57 L-1-17S-30E Eddy County, NM NAB1900435050 / 2RP-5149

Sampling will begin at 9:45 a.m. on Tuesday, September 26, 2023, and continue through Friday, September 29, 2023.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121

Email: tina huerta@eogresources.com



**Artesia Division** 

From: <u>Tina Huerta</u>

To: ocd.enviro@emnrd.nm.gov; blm\_nm\_cfo\_spill@blm.gov
Cc: Artesia S&E\_Spill\_Remediation; Artesia Regulatory

Subject: Jackson B 57 (NAB1900435050 & 2RP-5149) Sampling Notification

**Date:** Friday, April 14, 2023 9:19:29 AM

Attachments: <u>image001.png</u>

## Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Jackson B 57 L-1-17S-30E Eddy County, NM NAB1900435050 & 2RP-5149

Sampling will begin at 7:00 a.m. on Wednesday, April 19, 2023, and continue through Thursday, April 20, 2023.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121

Email: tina\_huerta@eogresources.com



**Artesia Division** 

From: <u>Tina Huerta</u>

To: ocd.enviro@emnrd.nm.gov; blm nm cfo spill@blm.gov
Cc: Artesia S&E Spill Remediation; Artesia Regulatory

**Subject:** Jackson B #57 (NAB1900435050 / 2RP-5149) Sampling notification

**Date:** Friday, November 11, 2022 11:13:08 AM

Attachments: <u>image001.png</u>

### Good Morning,

We just received notification due to one call issues the below sampling event has changed to 8:00 a.m. on Tuesday, November 15, 2022.

Sorry for any inconvenience this may cause.

Thank you.

From: Tina Huerta <Tina\_Huerta@eogresources.com>

Sent: Monday, November 7, 2022 12:01 PM

To: ocd.enviro@emnrd.nm.gov; blm\_nm\_cfo\_spill@blm.gov

Cc: Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia

Regulatory < Artesia\_Regulatory@eogresources.com >

Subject: Jackson B #57 (NAB1900435050 / 2RP-5149) Sampling notification

Good Morning,

We just received notification that it has been determined that this sampling event will be completed Friday, November 11, 2022.

Sorry for any inconvenience this may cause.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121

Email: tina huerta@eogresources.com



## **Artesia Division**

Amber Griffin

**From:** Miriam Morales < Miriam Morales@eogresources.com >

Sent: Thursday, November 3, 2022 8:13 AM

To: ocd.enviro@emnrd.nm.gov; CFO\_Spill, BLM\_NM < blm\_nm\_cfo\_spill@blm.gov>

**Cc:** Artesia S&E Spill Remediation <<u>Artesia\_S&E\_Spill\_Remediation@eogresources.com</u>>; Artesia Regulatory <<u>Artesia\_Regulatory@eogresources.com</u>>

Subject: Jackson B #57 (NAB1900435050 / 2RP-5149) Sampling notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Jackson B #57 L-1-17S-30E Eddy County, NM NAB1900435050 / 2RP-5149

Sampling will begin at 8:00 a.m. on Tuesday, November 8, 2022.

Thank you,

Miriam Morales

From: <u>Miriam Morales</u>

To: ocd.enviro@emnrd.nm.gov; CFO Spill, BLM NM
Cc: Artesia S&E Spill Remediation; Artesia Regulatory

Subject: Jackson B #57 (NAB1900435050 / 2RP-5149) Sampling notification

Date: Thursday, November 3, 2022 8:13:26 AM

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Jackson B #57 L-1-17S-30E Eddy County, NM NAB1900435050 / 2RP-5149

Sampling will begin at 8:00 a.m. on Tuesday, November 8, 2022.

Thank you,

Miriam Morales

From: <u>Chase Settle</u>

To: Hamlet, Robert, EMNRD; "Venegas, Victoria, EMNRD"

Cc: Katie Jamison; Bob Asher; "blm nm cfo spill@blm.gov"

Subject: Sampling Notification (2RP-5149)

Date: Tuesday, October 20, 2020 10:33:00 AM

Attachments: <u>image001.png</u>

EOG Resources, Inc. respectfully submits notification of confirmation sampling at the below listed location. Sampling will occur at 8:00 a.m. on Monday, October 26, 2020.

Jackson B #57 L-1-17S-30E Eddy County, NM 2RP-5149

Thank you,

## Chase Settle

Rep Safety & Environmental II

## **EOG Resources**

105 S. 4<sup>th</sup> Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)



From: **Katie Jamison** 

To: Hamlet, Robert, EMNRD

Subject: RE: Jackson B #57 Remediation Extension Request 2RP-5149

Wednesday, November 6, 2019 3:58:58 PM Date:

Attachments: image001.png

image002.png

Thank you, Rob. We appreciate your direction and we will keep you up-to-date as we progress.

Have a great week,

Katie Jamison

Safety & Environmental Manager EOG Resources, Inc - Artesia NM Division 105 S. Fourth Street Artesia, NM 88210

Cell: 575-513-9915 Office: 575-748-4193



From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

**Sent:** Wednesday, November 6, 2019 1:25 PM

**To:** Katie Jamison < Katie\_Jamison@eogresources.com>

Cc: blm\_nm\_cfo\_spill@blm.gov; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas,

Victoria, EMNRD < Victoria. Venegas@state.nm.us>

Subject: RE: Jackson B #57 Remediation Extension Request 2RP-5149

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: 2RP-5149

Katie,

Your request for an extension to November 31st, 2020 is approved.

The improvement in the deeper depths, 55 and 60 feet bgs is good news. Please move forward with the Remediact solution in the confirmation sample boreholes at the shallower depths. The request to reduce the number of confirmation sample points in each of the two areas down to 1 rather than 2 is approved. The limited space to complete the completion sampling without damaging the treatment wells and active flow lines is a viable explanation. Please keep us informed on the progression of the project.

Thank you,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 748-1283
Robert.Hamlet@state.nm.us

**From:** Katie Jamison < <u>Katie Jamison@eogresources.com</u>>

Sent: Monday, November 4, 2019 1:11 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us >; Venegas, Victoria, EMNRD

< <u>Victoria. Venegas@state.nm.us</u>>

Cc: <u>blm\_nm\_cfo\_spill@blm.gov</u>

Subject: [EXT] Jackson B #57 Remediation Extension Request 2RP-5149

Ms. Venegas/Mr. Hamlet,

Please find attached a Remediation Extension Request for the below listed location. Initial sample data and confirmation sample data have been compiled into a table to show the comparison results prior to and after treatment with Liquid Remediact. We have omitted the actual laboratory reports to save file space, but will provide all actual laboratory reports with the Closure Report that will be submitted once the project is complete.

Jackson B #57 L-1-17S-30E Eddy County, NM 2RP-5149

If you have any questions, do not hesitate to contact me.

Sincerely,

Katie Jamison

Safety & Environmental Manager EOG Resources, Inc – Artesia NM Division 105 S. Fourth Street Artesia, NM 88210

Cell: 575-513-9915 Office: 575-748-4193



## Chase Settle

Rep Safety & Environmental II

## **EOG Resources**

105 S. 4<sup>th</sup> Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)



From: Chase Settle

To: "Venegas, Victoria, EMNRD"; "Hamlet, Robert, EMNRD"; Jim Amos

Cc: <u>Katie Jamison</u>; <u>Bob Asher</u>

Subject: Sampling Notification: Jackson B #57 (2RP-5149)

Date: Thursday, October 10, 2019 1:45:00 PM

Attachments: <u>image001.png</u>

Ms. Venegas/Mr. Hamlet,

EOG Resources, Inc. respectfully submits notification of confirmation sampling to be conducted at the below location. A core rig is contracted to begin sampling on Tuesday, October 15, 2019, with an anticipated start time of 8:00 a.m. If you have any questions feel free to contact me.

Jackson B #57 L-1-17S-30E Eddy County, NM 2RP-5149

Thank you,

## Chase Settle

Rep Safety & Environmental II

## **EOG Resources**

105 S. 4<sup>th</sup> Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)



From: <u>Venegas, Victoria, EMNRD</u>

To: <u>Chase Settle</u>; <u>Hamlet</u>, <u>Robert</u>, <u>EMNRD</u>

 Cc:
 Jim Amos; Katie Jamison; Bob Asher; Yvette Moore

 Subject:
 RE: Extension Request- Jackson B #57 (2RP-5149)

**Date:** Thursday, August 8, 2019 11:25:17 AM

Attachments: <u>image001.png</u>

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

## RE: Extension Request- Jackson B #57 (2RP-5149)

Mr. Settle,

Your request for extension to November 1, 2019 is approved.

Thank you,

Victoria Venegas EMNRD OCD-District II 811 S First St. Artesia NM 88210 Victoria.Venegas@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**From:** Chase Settle <Chase\_Settle@eogresources.com>

Sent: Thursday, August 8, 2019 9:23 AM

**To:** Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

**Cc:** Jim Amos <jamos@blm.gov>; Katie Jamison <Katie\_Jamison@eogresources.com>; Bob Asher <Bob\_Asher@eogresources.com>; Yvette Moore <Yvette\_Moore@eogresources.com>

**Subject:** Extension Request- Jackson B #57 (2RP-5149)

Ms. Venegas/Mr. Hamlet,

EOG Resources, Inc. respectfully requests an extension on the remediation work for the below site. The current extension was to run through August 20, 2019, however bioremediation treatment wasn't completed at the site until July 14, 2019, after vertical delineation and installation of the treatment wells was completed. We would like to get an extension to November 1, 2019, this would allow 90 days for the treatment of soils to occur and a little under 3 weeks to complete soil confirmation testing and complete the report to NMOCD.

Jackson B #57 L-1-17S-30E Eddy County, NM 2RP-5149

Thank you,

## Chase Settle, M.S.

Rep Safety & Environmental II

## **EOG Resources**

105 S. 4<sup>th</sup> Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)



From: Amos, James
To: Chase Settle

**Subject:** Re: [EXTERNAL] Extension Request- Jackson B #57 (2RP-5149)

**Date:** Thursday, August 8, 2019 11:11:06 AM

Attachments: <u>image001.png</u>

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Chase, The BLM is okay with the extension. Keep us in the loop. Thanks

On Thu, Aug 8, 2019 at 9:23 AM Chase Settle < Chase Settle@eogresources.com > wrote:

Ms. Venegas/Mr. Hamlet,

EOG Resources, Inc. respectfully requests an extension on the remediation work for the below site. The current extension was to run through August 20, 2019, however bioremediation treatment wasn't completed at the site until July 14, 2019, after vertical delineation and installation of the treatment wells was completed. We would like to get an extension to November 1, 2019, this would allow 90 days for the treatment of soils to occur and a little under 3 weeks to complete soil confirmation testing and complete the report to NMOCD.

Jackson B #57

L-1-17S-30E

Eddy County, NM

2RP-5149

Thank you,

## Chase Settle, M.S.

Rep Safety & Environmental II

## **EOG** Resources

105 S. 4<sup>th</sup> Street

Artesia, NM 88210

575-748-4171 (Office)

575-703-6537 (Cell)



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James A. Amos Bureau of Land Management Carlsbad Field Office Supervisory Petroleum Engineering Tech 620 East Greene Street Carlsbad, NM. 88220 Office: (575) 234-5909

Fax: (575) 234-5927 Cell: (575) 361-2648 E-mail: jamos@blm.gov From: Katie Jamison

To: <u>Chase Settle</u>; <u>Bob Asher</u>; <u>Yvette Moore</u>

Subject: FW: Extension Approval - EOG Resources-Artesia - Jackson B #57 (2RP-5149)

**Date:** Tuesday, May 14, 2019 10:39:24 AM

Attachments: <u>image001.png</u>

From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Sent: Tuesday, May 14, 2019 10:38 AM

To: Katie Jamison < Katie Jamison@eogresources.com >

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas, Victoria, EMNRD

<Victoria.Venegas@state.nm.us>

**Subject:** Extension Approval - EOG Resources-Artesia - Jackson B #57 (2RP-5149)

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: 2RP-5149

Katie,

Your request for an extension to August 20th, 2019 is approved.

Thank you,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 840-5963
Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**From:** Katie Jamison < <u>Katie Jamison@eogresources.com</u>>

**Sent:** Tuesday, May 14, 2019 10:32 AM

**To:** Hamlet, Robert, EMNRD < <u>Robert.Hamlet@state.nm.us</u>>; Venegas, Victoria, EMNRD

## < <u>Victoria. Venegas@state.nm.us</u>>

**Cc:** Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>>

**Subject:** [EXT] Extension Request: EOG Resources-Artesia, Jackson B #57 Remediation Plan (2RP-5149)

Hi Rob,

We just received BLM approval to move forward with the Jackson B #57 Remediation Plan (2RP-5149), which NMOCD approved on March 1, 2019. Since it took over 60 days to get approval from BLM, we would like to request an extension for the completion of the remediation plan. We would like to request 120 days from Monday, May 20, 2019, so that we can get the core rig back on the schedule and finish getting all the equipment needed to complete the downhole remediation ordered.

Thank you,

Katie Jamison

Safety & Environmental Manager EOG Resources, Inc – Artesia NM Division 105 S. Fourth Street Artesia, NM 88210

Cell: 575-513-9915 Office: 575-748-4193



From: Chase Settle

To: "Hamlet, Robert, EMNRD"

Cc: Bratcher, Mike, EMNRD; Venegas, Victoria, EMNRD; Katie Jamison

 Subject:
 Jackson B #57\_2RP-5149 Update

 Date:
 Wednesday, April 3, 2019 2:27:00 PM

Attachments: <u>image001.png</u>

Rob,

I wanted to provide a brief update to the Jackson B #57 project. We currently have not begun this work. We have been unable to get Bureau of Land Management (BLM) clearance for the approved work plan although we have submitted it and sent multiple emails requesting their guidance. Once we get approval from BLM to move forward with the work plan I will send you notification.

Thank you,

## Chase Settle, M.S.

Rep Safety & Environmental II

### **EOG Resources**

105 S. 4<sup>th</sup> Street Artesia, NM 88210 575-748-4171 (Office) 575-703-6537 (Cell)



From: Hamlet, Robert, EMNRD

To: <u>Katie Jamison</u>

Cc: yjimenez@blm.gov; Chase Settle; Weaver, Crystal; Bratcher, Mike, EMNRD; Venegas, Victoria, EMNRD

Subject: Remediation Plan: Approval, EOG Resources-Artesia, Jackson B #57 (2RP-5149) 12-1-2018

**Date:** Friday, March 1, 2019 3:49:29 PM

Attachments: <u>image001.png</u>

Jackson B #57 2RP-5149 Work Plan (Appproval).pdf

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Katie and Chase.

We have received your work plan for <u>2RP-5149</u> Jackson B #57, thank you. This work plan is approved.

Please let me know if you have any further questions.

Regards,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 840-5963
Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

**From:** Katie Jamison < Katie\_Jamison@eogresources.com>

**Sent:** Wednesday, February 27, 2019 3:47 PM

**To:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>

**Cc:** yjimenez@blm.gov; Chase Settle <Chase\_Settle@eogresources.com>

Subject: [EXT] Remediation Plan: 2RP-5149, EOG Resources-Artesia, Jackson B #57

Good Afternoon Rob and Victoria,

EOG Resources – Artesia respectfully submits the attached remediation plan for the following site:

2RP-5149

Jackson B #57 L-1-17S-30E Eddy County, NM

If you have any questions or concerns, please feel free to contact me.

Sincerely,

Katie Jamison

Safety & Environmental Manager EOG Resources, Inc – Artesia NM Division 105 S. Fourth Street Artesia, NM 88210

Cell: 575-513-9915 Office: 575-748-4193



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 281977

## **CONDITIONS**

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	281977
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	3/22/2024