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

June 30, 2022

NMOCD District II

Re: Jackson B #5 Battery
P-1-17S-30E
Eddy County, NM
Incident #NRM2023059703
Incident #NAB1733430085/2RP-4495

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The report is being submitted in reference to Incident #NRM2023059703 and #NAB173340085, and although the report addresses both sites as they were inadvertently remediated simultaneously, each will have a separate submission of the C-141 Closure Form in the NMOCD system.

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

Respectfully,

Chase Settle

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

Jackson B #5 Battery

Closure Report

P-1-17S-30E

Eddy County, NM

June 30, 2022

NRM2023059703

NAB1733430085

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Appendices:

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, then turn east on the lease road for a quarter of mile, then turn south for an 1/8th of a mile to the location.

II. NAB1733430085 Background

During facility maintenance, historical impaction was discovered under the oil tanks that were located in the unlined portion of the battery. EOG initially had no knowledge of a previous Incident at the facility, however during the divestiture process of wells within the area, it was discovered that a release within the battery had been attributed to a well which produced to that facility. Therefore, the Incident had not been discovered during the initial searches when the historical impacts were discovered. The Incident was identified as NAB1733430085, which only had a C-141 Initial on file with NMOCD. We also received no further documentation from Burnett Oil Co. after correspondence with their environmental representative.

III. Depth to Groundwater Investigation

As discussed within the 2021 Status Update (Appendix B) which was submitted through email to NMOCD, EOG performed a depth to groundwater exploratory boring to confirm that groundwater was indeed beyond 100 feet deep. This stipulation was part of the approval of the Remediation Plan approval received from NMOCD in January of 2021, or to use the most stringent guidelines of Table 1.

IV. Remedial Actions Completed

Prior to submission of the Characterization/Remediation Plan in November 2020, the excavated area within the tank battery had been remediated to Table 1 standards. Therefore, the remaining activities to be conducted was the bioremediation of the stockpiled soils in the lined treatment cells on the adjacent production pad. These soils were treated the final time as discussed in the 2021 Status Update document, then additional water was added as needed to keep the microbes functioning to continue with the breakdown of the hydrocarbons.

EOG had the treated soil sampled on two separate occasions by a third-party environmental consultant, in September of 2021 and April of 2022. The Confirmation Summary Reports are included as Appendix C. During both events, cells within the treatment areas continued to show signs of TPH impaction above the reclamation standards of New Mexico Administrative Code (NMAC) 19.15.29.13, specifically DRO and MRO.

Due to this battery, and the wells which produced to it, being procured by another operator at the end of 2021, it was imperative to get the open excavation at the facility backfilled. This would reduce any ongoing safety risks as well as allow full access for the new operator to their facility, including to the lact unit. It was determined that the best course of action was to send the stockpiled soil to a NMOCD approved disposal facility after it had not completed bioremediation by the April 2022 confirmation sampling event. The open excavation within the battery was backfilled with clean, non-contaminated material and the liner was extended as far south as possible where a new berm was built at an existing power pole. These activities are documented in Appendix C as the third-party environmental consultant oversaw the completion of the project.

Due to the disposal of all the excavated soil, and completed backfill of the excavation, EOG hereby requests Closure of Incidents NRM2023059703 and NAB1733430085.

Appendix A
C-141 Closure

Incident ID	NAB1733430085
District RP	2RP-4495
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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 06/30/2022

email: Chase Settle Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Bradford Billings Date: 07/11/2022

Printed Name: Bradford Billings Title: Envir.Spec.A

Appendix B
2021 Status Update

From: Katie Jamison
To: Eads, Cristina, EMNRD
Cc: Chase Settle
Subject: EOG Resources: Jackson B #5 Battery Update (nRM2023059703)
Date: Wednesday, August 4, 2021 9:05:12 AM
Attachments: JacksonB_#5_Battery_Update_nRM2023059703.pdf
image002.png

Ms. Eads,

I wanted to provide an update on the Jackson B #5 Battery (nRM2023059703) bioremediation project. EOG appreciates NMOCD working with us as we develop new methods and procedures to cut our carbon footprint while still accomplishing environmental remediations so we want to keep NMOCD up to date with the progress of these projects. I've attached the update to this email, but if it needs to go through the submission portal please let me know and I'll submit it through there. We will be sending some more updates on some other sites within the next week or two, so we wanted to determine the correct process. If there are any questions or suggestions don't hesitate to contact to me.

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

eog resources

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

July 27, 2021

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

Re: Jackson B #5 Battery
P-1-17S-30E
Eddy County, NM
Incident #NRM2023059703

EOG Resources, Inc. is submitting the enclosed remediation work plan UPDATE for the above referenced site. The update is being submitted in reference to the work plan approved on January 21, 2021.

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

Respectfully,

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

Jackson B #5 Battery

Remediation Work Plan Update

P-1-17S-30E

Eddy County, NM

July 27, 2021

NRM2023059703

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I. Original Scope of Work (submitted November 13, 2020)

Stockpiled soils have already begun bioremediation procedures with a microbial product (Liquid Remediact). The bioremediation product was administered to the stockpiled material on September 23, 2020. This consisted of mixing 50 gallons of the product with 500 gallons of water and applying the mixture to the soil within the lined and bermed treatment cells. The impacted material is in approximately a 1-1 ½ foot lift. In order to create greater contact with the mixture, the soil was lightly disked with a tractor and plow the day after application. Based on the treatment date, EOG proposes to perform the first confirmation sampling of the bioremediated soil in January 2021. 5 point composite samples will be collected with 1 sample representative of 100 cubic yards of soil. Once all samples confirm that soils are below the requirements of NMAC 19.15.29.13, they will be used to backfill the excavation. If the soils have not remediated by the January 2021 sampling, another application of the microbial product will be applied in March 2021 with sampling to occur in June 2021.

II. Updated Actions Completed

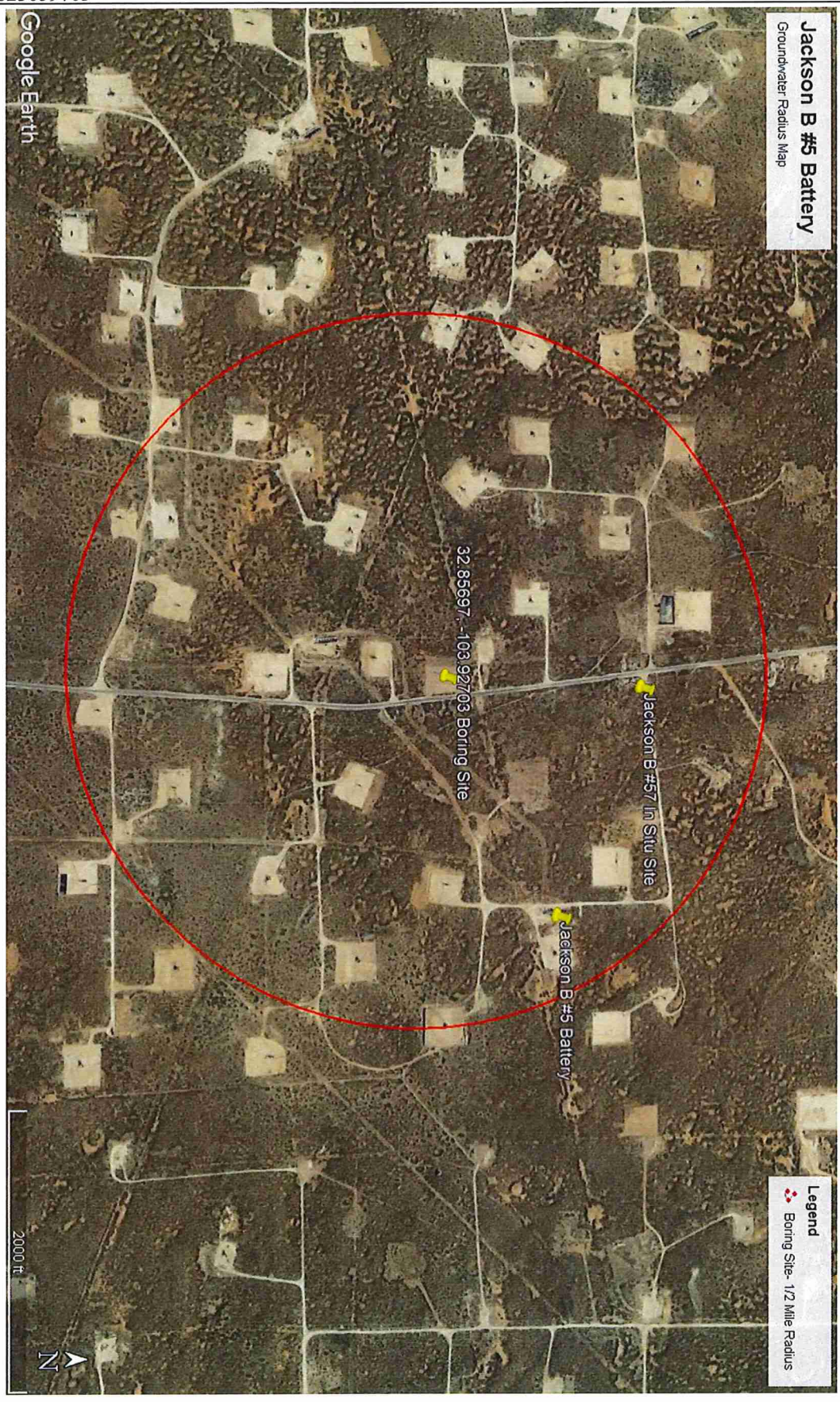
The initial plan submitted called to have confirmation samples taken in January of 2021, however with approval of the plan not occurring until January 21st of that month, and with the stipulation of drilling for depth to water or using the most stringent levels in Table 1, it was decided to determine the depth to water information before further actions were taken. Also, no additional application of Liquid Remediact was completed in March 2021. The only actions taken on the site was the agitation of soil and application of fresh water, 500 gallons when needed, to keep the microbes performing the bioremediation process, this was completed twice monthly beginning the first of March 2021 and continued until the week of July 9th. On July 15, 2021, a preliminary site visit was conducted in which hydrocarbon impacts were still evidenced in the treated soil by olfactory and visual methods, although much milder than at the time of initial excavation. With impacts remaining, EOG decided to apply another treatment of Liquid Remediact. On July 23, 2021, 30 gallons of Liquid Remediact was added to 300 gallons of fresh water and applied across the soils within the treatment cell. The amount of Liquid Remediact was reduced due to information we had received from the product representative, the reduction in hydrocarbon concentration after the initial treatment, and the available supply on-hand. During conversations with the product representative, it was mentioned that the product does not need to be applied more than once because the microorganisms never die and disappear but simply dry up or slow down, but always remain, so to reinvigorate them all that has to be done is the reapplication of moisture. With that knowledge and the stockpile on-hand, it was decided to treat the cell with the 30 available gallons.

The plan post July treatment is to continue agitating the soil on a bi-weekly basis and applying fresh water (500 gallons) when needed to keep the microbes from drying out. After 45 days, perform another visual/olfactory assessment of the site, and if the soils appear to have bioremediated then perform soil sampling at the stipulated sampling frequency of one sample representing no greater than 25 yards. If the visual/olfactory assessment still show signs of hydrocarbon impaction, fewer samples over a broader range may still need to be collected so current levels can be determined.

III. Ground Water

EOG already had a similar in situ bioremediation project with established treatment wells at depths greater than 50 feet below grade surface within 3/10ths of a mile, so depth to groundwater was known to be greater than 50 feet. However, with the concern raised by NMOCD in the approval stipulations for the Jackson B #5 Battery, EOG decided to contract Talon LPE to perform an exploratory boring within a half mile of the site. Talon LPE mobilized on May 18, 2021, at a site within a half mile of the Jackson B #5 Battery, where they extended a soil boring to 125 feet below surface grade. The boring remained open for a minimum of 72 hours, at which time Talon performed an inspection and determined that no groundwater was present or had been encountered.

Appendix A
Map



Appendix B
Driller Log

BORING LOG

Project No.: 700438.238.01
Site Name: Jackson B #59
Location: Eddy County, New Mexico
Date: 5/18/2021
Boring Number: B-1

Weather: Clear, Temp.: 75°F
Logger: D. Adkins
Field Instrument: NA
Latitude: 32.85697 N
Longitude: -103.92703 W

Driller: D. Londagin
Rig Type: Reich Drill
Bit Size: 5-7/8"
Drilling Method: Air Rotary
Sample Retrieval Method: Drill Cuttings

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
	☐	0-30'				Red/brown fine Sand (SP)	None Slight Mod. Strong	
	☐	30-40'				Red/brown fine Sand (SP) with varying amounts of silt and caliche	None Slight Mod. Strong	
	☐	40-80'				Dry, dark red/brown sandy Silts (SM)	None Slight Mod. Strong	
	☐	80-125'				Red/brown fine Sand (SP)	None Slight Mod. Strong	
	☐					__ TD 125'__	None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	
	☐						None Slight Mod. Strong	

Surface Elevation: _____

Notes: Groundwater Not Encountered @ 125' BGS – 72 hr.

Logger Initials: DJA

Appendix C
Confirmation Summary Reports

ENSOLUM

June 2, 2022

Chase Settle
EOG Resources, Inc.
105 South 4th Street
Artesia, New Mexico 88210

Re: Site Summary
Jackson B 5 Battery
Incident Number NRM2023059703 & NAB1733430085
Confirmation Sampling and Backfill Summary

Mr. Settle:

Ensolum, LLC (Ensolum) presents the following Site Summary to EOG Resources, Inc. (EOG) detailing soil sampling activities of the previously bioremediated stockpile at the Jackson B 5 Battery (Site) to determine if the stockpile is suitable for use as backfill material at the Site for Incident Number NRM2023059703 & NAB173430085. The Site is located in Unit P, Section 1, Township 17 South, Range 30 East in Eddy County, New Mexico (Figure 1).

On April 12, 2022, Ensolum personnel collected 20 composite soil samples, C1 through C20, within the locations presented on Figure 1. The 5- point composite soil samples were collected at depths ranging from the surface of the stockpile to 1 foot below ground surface (bgs), immediately above the poly liner. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Soil from the composite soil samples was field screened for volatile aromatic hydrocarbons, utilizing a calibrated photo-ionization detector (PID), and chloride, using Hach® chloride QuanTab® test strips.

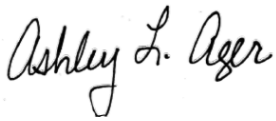
The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported via courier at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Hall Environmental Analysis Laboratories (HEAL) in Albuquerque, New Mexico, for analysis of benzene, tolune, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbsons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

All composite soil samples indicated benzene, BTEX, and chloride concentrations were compliant with the New Mexico Oil Conservation Division (NMOCD) Table 1 Closure Criteria and the reclamation standard applied in the top 4 feet of soil; however, TPH concentrations exceeded the Site Closure Criteria and TPH concentrations exceed the reclamation requirment for the top 4 feet of soil. The soil sample results are summarized in Table 1 and laboratory analytical reports are included in Appendix A.

Following a review of the data, EOG determined the stockpile was not suitable for backfill. As such the soil was transported to Lea Land disposal facility. The excavation within the battery at the Site was backfilled with locally procured backfill material, recontoured to match Site conditions, and the poly liner was installed for completion of the battery liner. Photographic documentation was completed and a photographic log is included in Appedix B.

If you have any questions or comments, please contact Ms. Ashley Ager at (970) 946-1093 or aager@ensolum.com.

Sincerely,
Ensolum, LLC



Tacoma Morrissey
Senior Geologist

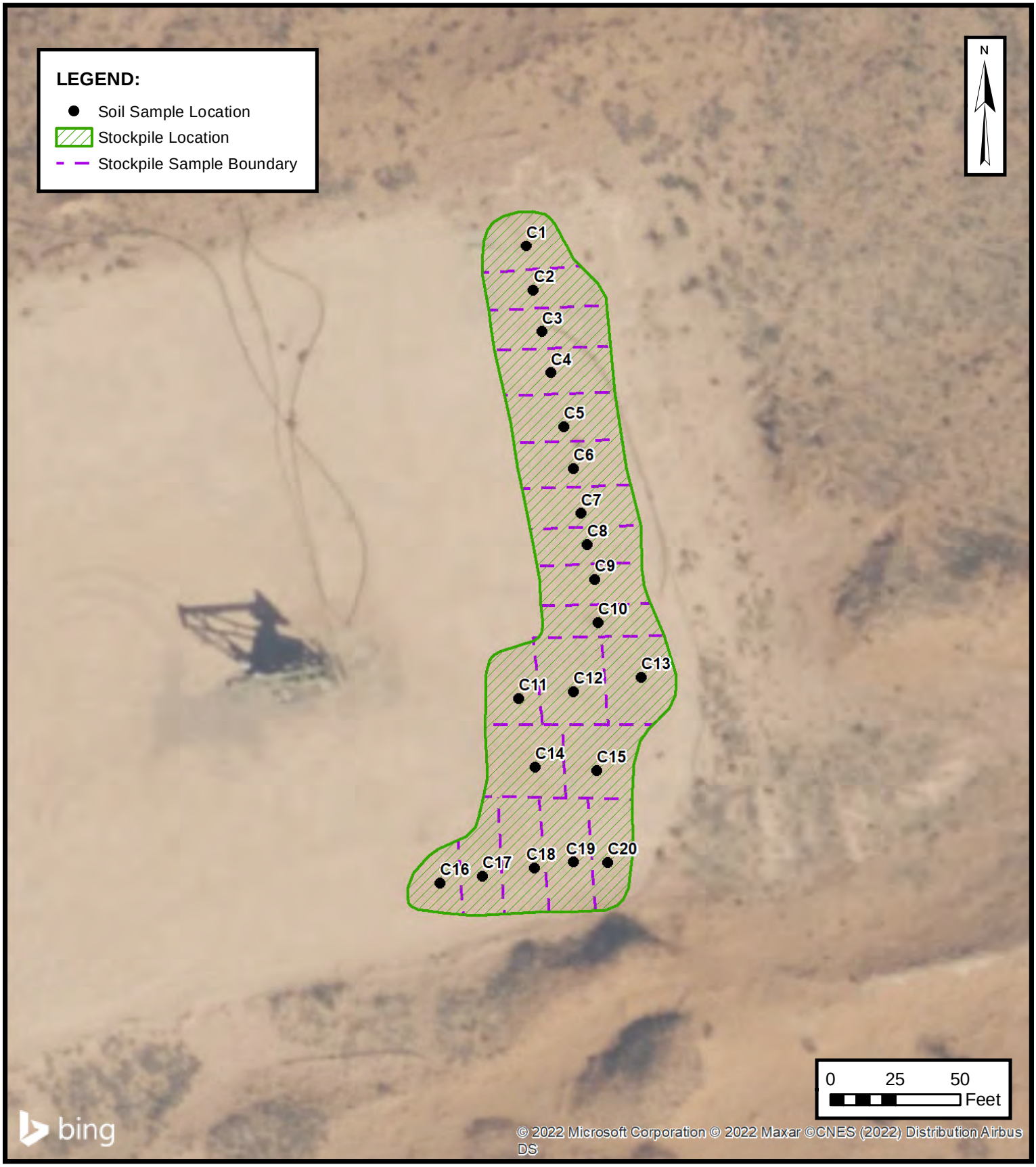
Ashley Ager, M.S., P.G.
Program Director

Appendices:

Figure 1	Site and Sample Location Map
Table 1	Soil Analytical Results
Appendix A	Laboratory Analytical Report and Chain of Custody Documentation
Appendix B	Photographic Log

ENSOLUM

FIGURES



ENSOLUM
Environmental & Hydrogeologic Consultants

SITE AND SAMPLE LOCATION MAP

EOG RESOURCES, INC.
JACKSON B 5 BATTERY
NRM2023059703
Unit P Sec 1 T17S R30E
Eddy County, New Mexico

FIGURE

1

ENSOLUM

TABLES

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Jackson B 5 Battery
EOG Resources, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Assessment Soil Samples										
C1	04/12/2022	0.5-1	<0.024	<0.09	<4.7	280	460	280	740	200
C2	04/12/2022	0.5-1	<0.023	<0.09	<4.7	420	590	420	1,010	420
C3	04/12/2022	0.5-1	<0.024	<0.10	<4.8	770	1,100	770	1,870	270
C4	04/12/2022	0.5-1	<0.024	<0.10	<4.8	1,600	470	**1,600**	2,070	330
C5	04/12/2022	0.5-1	<0.023	<0.09	<4.7	2,100	2,900	**2,100**	**5,000**	320
C6	04/12/2022	0.5-1	<0.024	<0.10	<4.9	800	1,500	800	2,300	200
C7	04/12/2022	0.5-1	<0.024	<0.10	<4.9	700	1,300	700	2,000	300
C8	04/12/2022	0.5-1	<0.023	<0.09	<4.6	810	1,400	810	2,210	160
C9	04/12/2022	0.5-1	<0.025	<0.10	<5.0	740	1,400	740	2,140	170
C10	04/12/2022	0.5-1	<0.024	<0.10	<4.8	830	1,500	830	2,330	180
C11	04/12/2022	0.5-1	<0.025	<0.10	<4.9	570	1,000	570	1,570	160
C12	04/12/2022	0.5-1	<0.024	<0.10	<4.8	1,100	1,600	**1,100**	**2,700**	280
C13	04/12/2022	0.5-1	<0.025	<0.10	<5.0	1,500	2,100	**1,500**	**3,600**	480
C14	04/12/2022	0.5-1	<0.024	<0.10	<4.8	910	1,500	910	2,410	160
C15	04/12/2022	0.5-1	<0.024	<0.10	<4.8	1,000	1,600	**1,000**	**2,600**	330
C16	04/12/2022	0.5-1	<0.024	<0.10	<4.9	680	1,200	680	1,880	250
C17	04/12/2022	0.5-1	<0.025	<0.10	<5.0	720	1,100	720	1,820	520
C18	04/12/2022	0.5-1	<0.025	<0.10	<4.9	710	1,200	710	1,910	320
C19	04/12/2022	0.5-1	<0.023	<0.09	<4.6	530	870	530	1,400	370
C20	04/12/2022	0.5-1	<0.023	<0.09	<4.7	42.0	99.0	42.0	141	95.0

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon

ENSOLUM

APPENDIX A
Laboratory Analytical Report and Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 27, 2022

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

RE: Jackson B 5 Battery OrderNo.: 2204724

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 20 sample(s) on 4/15/2022 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C1
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 9:15:00 AM
Lab ID: 2204724-001 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	200	60		mg/Kg	20	4/21/2022 3:34:57 AM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	280	9.9		mg/Kg	1	4/20/2022 8:32:52 PM	66891
Motor Oil Range Organics (MRO)	460	50		mg/Kg	1	4/20/2022 8:32:52 PM	66891
Surr: DNOP	76.8	51.1-141		%Rec	1	4/20/2022 8:32:52 PM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Surr: BFB	105	37.7-212		%Rec	1	4/18/2022 1:53:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Toluene	ND	0.047		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Xylenes, Total	ND	0.095		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	4/18/2022 1:53:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C2
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 9:25:00 AM
Lab ID: 2204724-002 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	420	60		mg/Kg	20	4/21/2022 3:47:22 AM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	420	49		mg/Kg	5	4/20/2022 10:06:58 PM	66891
Motor Oil Range Organics (MRO)	590	250		mg/Kg	5	4/20/2022 10:06:58 PM	66891
Surr: DNOP	114	51.1-141		%Rec	5	4/20/2022 10:06:58 PM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Surr: BFB	101	37.7-212		%Rec	1	4/18/2022 2:13:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.023		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Toluene	ND	0.047		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Xylenes, Total	ND	0.094		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Surr: 4-Bromofluorobenzene	82.7	70-130		%Rec	1	4/18/2022 2:13:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C3
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 9:40:00 AM
Lab ID: 2204724-003 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	270	60		mg/Kg	20	4/21/2022 3:59:46 AM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	770	94		mg/Kg	10	4/19/2022 1:57:18 AM	66891
Motor Oil Range Organics (MRO)	1100	470		mg/Kg	10	4/19/2022 1:57:18 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 1:57:18 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Surr: BFB	101	37.7-212		%Rec	1	4/18/2022 2:32:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	4/18/2022 2:32:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C4
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 9:55:00 AM
Lab ID: 2204724-004 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	330	60		mg/Kg	20	4/21/2022 4:37:01 AM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	1600	94		mg/Kg	10	4/19/2022 2:21:35 AM	66891
Motor Oil Range Organics (MRO)	1900	470		mg/Kg	10	4/19/2022 2:21:35 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 2:21:35 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Surr: BFB	107	37.7-212		%Rec	1	4/18/2022 2:52:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Xylenes, Total	ND	0.096		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	4/18/2022 2:52:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C5
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 10:10:00 AM
Lab ID: 2204724-005 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	320	60		mg/Kg	20	4/21/2022 3:13:39 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	2100	98		mg/Kg	10	4/19/2022 2:46:00 AM	66891
Motor Oil Range Organics (MRO)	2900	490		mg/Kg	10	4/19/2022 2:46:00 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 2:46:00 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Surr: BFB	102	37.7-212		%Rec	1	4/18/2022 3:12:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.023		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Toluene	ND	0.047		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Xylenes, Total	ND	0.093		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/18/2022 3:12:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C6
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 10:20:00 AM
Lab ID: 2204724-006 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	200	60		mg/Kg	20	4/21/2022 4:15:41 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	800	100		mg/Kg	10	4/19/2022 3:10:17 AM	66891
Motor Oil Range Organics (MRO)	1500	500		mg/Kg	10	4/19/2022 3:10:17 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 3:10:17 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Surr: BFB	99.3	37.7-212		%Rec	1	4/18/2022 3:32:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Toluene	ND	0.049		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	4/18/2022 3:32:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C7
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 10:35:00 AM
Lab ID: 2204724-007 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	300	60		mg/Kg	20	4/21/2022 4:28:05 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	700	96		mg/Kg	10	4/19/2022 3:34:43 AM	66891
Motor Oil Range Organics (MRO)	1300	480		mg/Kg	10	4/19/2022 3:34:43 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 3:34:43 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Surr: BFB	103	37.7-212		%Rec	1	4/18/2022 4:50:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Toluene	ND	0.049		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	4/18/2022 4:50:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C8
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 11:45:00 AM
Lab ID: 2204724-008 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	160	60		mg/Kg	20	4/21/2022 4:40:30 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	810	95		mg/Kg	10	4/19/2022 3:59:10 AM	66891
Motor Oil Range Organics (MRO)	1400	480		mg/Kg	10	4/19/2022 3:59:10 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 3:59:10 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Surr: BFB	99.8	37.7-212		%Rec	1	4/18/2022 5:10:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.023		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Toluene	ND	0.046		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Ethylbenzene	ND	0.046		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Xylenes, Total	ND	0.092		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	4/18/2022 5:10:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C9
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 11:00:00 AM
Lab ID: 2204724-009 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	170	60		mg/Kg	20	4/21/2022 4:52:54 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	740	95		mg/Kg	10	4/19/2022 4:23:21 AM	66891
Motor Oil Range Organics (MRO)	1400	470		mg/Kg	10	4/19/2022 4:23:21 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 4:23:21 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Surr: BFB	101	37.7-212		%Rec	1	4/18/2022 5:29:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Toluene	ND	0.050		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Ethylbenzene	ND	0.050		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Xylenes, Total	ND	0.10		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	4/18/2022 5:29:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C10
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 11:20:00 AM
Lab ID: 2204724-010 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	180	61		mg/Kg	20	4/21/2022 5:05:18 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	830	96		mg/Kg	10	4/19/2022 4:47:38 AM	66891
Motor Oil Range Organics (MRO)	1500	480		mg/Kg	10	4/19/2022 4:47:38 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 4:47:38 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Surr: BFB	108	37.7-212		%Rec	1	4/18/2022 5:49:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	4/18/2022 5:49:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C11
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 11:35:00 AM
Lab ID: 2204724-011 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	160	61		mg/Kg	20	4/21/2022 5:17:42 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	570	91		mg/Kg	10	4/19/2022 5:11:41 AM	66891
Motor Oil Range Organics (MRO)	1000	460		mg/Kg	10	4/19/2022 5:11:41 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 5:11:41 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Surr: BFB	103	37.7-212		%Rec	1	4/18/2022 6:09:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Toluene	ND	0.049		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Xylenes, Total	ND	0.099		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	4/18/2022 6:09:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C12
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 12:35:00 PM
Lab ID: 2204724-012 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	280	60		mg/Kg	20	4/21/2022 5:30:06 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	1100	98		mg/Kg	10	4/19/2022 5:35:59 AM	66891
Motor Oil Range Organics (MRO)	1600	490		mg/Kg	10	4/19/2022 5:35:59 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 5:35:59 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Surr: BFB	105	37.7-212		%Rec	1	4/18/2022 6:28:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Xylenes, Total	ND	0.096		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	4/18/2022 6:28:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C13
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 12:50:00 PM
Lab ID: 2204724-013 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	480	61		mg/Kg	20	4/21/2022 5:42:31 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	1500	93		mg/Kg	10	4/19/2022 6:00:08 AM	66891
Motor Oil Range Organics (MRO)	2100	470		mg/Kg	10	4/19/2022 6:00:08 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 6:00:08 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Surr: BFB	98.8	37.7-212		%Rec	1	4/18/2022 6:48:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Toluene	ND	0.050		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Ethylbenzene	ND	0.050		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Xylenes, Total	ND	0.10		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	4/18/2022 6:48:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** C14
Project: Jackson B 5 Battery **Collection Date:** 4/12/2022 1:05:00 PM
Lab ID: 2204724-014 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	160	60		mg/Kg	20	4/21/2022 5:54:55 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	910	100		mg/Kg	10	4/19/2022 6:24:25 AM	66891
Motor Oil Range Organics (MRO)	1500	500		mg/Kg	10	4/19/2022 6:24:25 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 6:24:25 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Surr: BFB	100	37.7-212		%Rec	1	4/18/2022 7:08:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	4/18/2022 7:08:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C15
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 1:15:00 PM
Lab ID: 2204724-015 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	330	60		mg/Kg	20	4/21/2022 6:32:09 PM	66958
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	1000	100		mg/Kg	10	4/19/2022 6:48:43 AM	66891
Motor Oil Range Organics (MRO)	1600	500		mg/Kg	10	4/19/2022 6:48:43 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 6:48:43 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Surr: BFB	101	37.7-212		%Rec	1	4/18/2022 7:27:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Xylenes, Total	ND	0.095		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	4/18/2022 7:27:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C16
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 1:30:00 PM
Lab ID: 2204724-016 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	250	60		mg/Kg	20	4/21/2022 9:37:08 PM	66985
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	680	93		mg/Kg	10	4/19/2022 7:13:04 AM	66891
Motor Oil Range Organics (MRO)	1200	470		mg/Kg	10	4/19/2022 7:13:04 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 7:13:04 AM	66891
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Surr: BFB	102	37.7-212		%Rec	1	4/18/2022 7:47:00 PM	66887
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.024		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Toluene	ND	0.049		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	4/18/2022 7:47:00 PM	66887

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** C17
Project: Jackson B 5 Battery **Collection Date:** 4/12/2022 1:45:00 PM
Lab ID: 2204724-017 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	520	60		mg/Kg	20	4/21/2022 9:49:32 PM	66985
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	720	97		mg/Kg	10	4/19/2022 12:53:35 PM	66893
Motor Oil Range Organics (MRO)	1100	490		mg/Kg	10	4/19/2022 12:53:35 PM	66893
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 12:53:35 PM	66893
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Surr: BFB	101	37.7-212		%Rec	1	4/19/2022 1:02:00 AM	66890
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Toluene	ND	0.050		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Xylenes, Total	ND	0.10		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	4/19/2022 1:02:00 AM	66890

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C18
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 2:00:00 PM
Lab ID: 2204724-018 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**MRA**
Chloride	320	60		mg/Kg	20	4/21/2022 10:26:47 PM	66985
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	710	97		mg/Kg	10	4/19/2022 1:17:54 PM	66893
Motor Oil Range Organics (MRO)	1200	480		mg/Kg	10	4/19/2022 1:17:54 PM	66893
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 1:17:54 PM	66893
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Surr: BFB	104	37.7-212		%Rec	1	4/19/2022 2:01:00 AM	66890
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Toluene	ND	0.049		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Xylenes, Total	ND	0.099		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	4/19/2022 2:01:00 AM	66890

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: C19
Project: Jackson B 5 Battery
Collection Date: 4/12/2022 2:15:00 PM
Lab ID: 2204724-019 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	370	60		mg/Kg	20	4/21/2022 10:39:11 PM	66985
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	530	92		mg/Kg	10	4/19/2022 1:42:28 PM	66893
Motor Oil Range Organics (MRO)	870	460		mg/Kg	10	4/19/2022 1:42:28 PM	66893
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 1:42:28 PM	66893
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Surr: BFB	102	37.7-212		%Rec	1	4/19/2022 2:21:00 AM	66890
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Toluene	ND	0.046		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Ethylbenzene	ND	0.046		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Xylenes, Total	ND	0.092		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	4/19/2022 2:21:00 AM	66890

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

Qualifiers:

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

Analytical Report
Lab Order **2204724**
Date Reported: **4/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** C20
Project: Jackson B 5 Battery **Collection Date:** 4/12/2022 2:30:00 PM
Lab ID: 2204724-020 **Matrix:** SOIL **Received Date:** 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	95	60		mg/Kg	20	4/21/2022 10:51:36 PM	66985
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	42	9.1		mg/Kg	1	4/19/2022 2:06:56 PM	66893
Motor Oil Range Organics (MRO)	99	46		mg/Kg	1	4/19/2022 2:06:56 PM	66893
Surr: DNOP	98.1	51.1-141		%Rec	1	4/19/2022 2:06:56 PM	66893
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Surr: BFB	105	37.7-212		%Rec	1	4/19/2022 2:41:00 AM	66890
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Toluene	ND	0.047		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Xylenes, Total	ND	0.094		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/19/2022 2:41:00 AM	66890

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204724**

27-Apr-22

Client: EOG

Project: Jackson B 5 Battery

Sample ID: **MB-66958**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **66958**	RunNo: **87394**
Prep Date: **4/20/2022**	Analysis Date: **4/21/2022**	SeqNo: **3091542** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66958**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **66958**	RunNo: **87394**
Prep Date: **4/20/2022**	Analysis Date: **4/21/2022**	SeqNo: **3091543** 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-66985**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **66985**	RunNo: **87437**
Prep Date: **4/21/2022**	Analysis Date: **4/21/2022**	SeqNo: **3093356** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66985**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **66985**	RunNo: **87437**
Prep Date: **4/21/2022**	Analysis Date: **4/21/2022**	SeqNo: **3093357** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204724**

27-Apr-22

Client: EOG

Project: Jackson B 5 Battery

Sample ID: **LCS-66893** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **66893** RunNo: **87361**

Prep Date: **4/15/2022** Analysis Date: **4/19/2022** SeqNo: **3090508** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.8	68.9	135			
Surr: DNOP	4.3		5.000		86.1	51.1	141			

Sample ID: **MB-66893** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **66893** RunNo: **87361**

Prep Date: **4/15/2022** Analysis Date: **4/19/2022** SeqNo: **3090511** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	51.1	141			

Sample ID: **MB-66891** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **66891** RunNo: **87372**

Prep Date: **4/15/2022** Analysis Date: **4/20/2022** SeqNo: **3090970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.1		10.00		70.7	51.1	141			

Sample ID: **LCS-66891** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **66891** RunNo: **87372**

Prep Date: **4/15/2022** Analysis Date: **4/20/2022** SeqNo: **3090971** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	68.9	135			
Surr: DNOP	3.0		5.000		60.5	51.1	141			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204724**

27-Apr-22

Client: EOG

Project: Jackson B 5 Battery

Sample ID: **lcs-66887**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **66887**	RunNo: **87322**
Prep Date: **4/15/2022**	Analysis Date: **4/18/2022**	SeqNo: **3088051** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2400		1000		236	37.7	212			S

Sample ID: **mb-66887**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **66887**	RunNo: **87322**
Prep Date: **4/15/2022**	Analysis Date: **4/18/2022**	SeqNo: **3088052** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

Sample ID: **lcs-66890**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **66890**	RunNo: **87322**
Prep Date: **4/15/2022**	Analysis Date: **4/18/2022**	SeqNo: **3088075** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	72.3	137			
Surr: BFB	2300		1000		233	37.7	212			S

Sample ID: **mb-66890**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **66890**	RunNo: **87322**
Prep Date: **4/15/2022**	Analysis Date: **4/18/2022**	SeqNo: **3088076** 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	1100		1000		108	37.7	212			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204724**

27-Apr-22

Client: EOG

Project: Jackson B 5 Battery

Sample ID: **lcs-66887** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **66887** RunNo: **87322**

Prep Date: **4/15/2022** Analysis Date: **4/18/2022** SeqNo: **3088091** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.7	80	120			
Toluene	0.87	0.050	1.000	0	86.8	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.3	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	70	130			

Sample ID: **mb-66887** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **66887** RunNo: **87322**

Prep Date: **4/15/2022** Analysis Date: **4/18/2022** SeqNo: **3088092** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

Sample ID: **lcs-66890** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **66890** RunNo: **87322**

Prep Date: **4/15/2022** Analysis Date: **4/18/2022** SeqNo: **3088117** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.9	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.4	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: **mb-66890** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **66890** RunNo: **87322**

Prep Date: **4/15/2022** Analysis Date: **4/18/2022** SeqNo: **3088118** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2204724 | RcptNo: 1

Received By: Sean Livingston 4/15/2022 8:00:00 AM S Livingston

Completed By: Sean Livingston 4/15/2022 8:42:01 AM S Livingston

Reviewed By: JO 4/15/22

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ 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? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: 4-15-22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

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
1	5.7	Good				

Chain-of-Custody Record

Client: EOG

105 S 4th St. Artesia, NM 88210

Mailing Address: ~~4901 Hawkins NE, AC~~ ~~Albuquerque, NM, 87109~~ AC

Phone #: 505-345-3975

email or Fax#: ~~Cindy@hallenvironmental.com~~ AC

QA/QC Package: Chase_Settle@eogresources.com

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush 5 Day

Project Name: Jackson B#5 Battery

Project #: 03C2000002

Project Manager: Tacoma Morrissey

Sampler: Alexis Castro

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.6 +0.1 = 5.7°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2204724	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides (Cl^-)
04/12/22	0915	S	C1	2oz; 1		001	X	X									X
	0925		C2			002											
	0940		C3			003											
	0955		C4			004											
	1010		C5			005											
	1020		C6			006											
	1035		C7			007											
	1045		C8			008											
	1100		C9			009											
	1120		C10			010											
	1135		C11			011											
	1235		C12			012											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
04/13/22	730				4/14/22	730
4/14/22	1900			Courier	4/15/22	8:00

Remarks: Amber_griffin@eogresources.com

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.

Chain-of-Custody Record

Client: EOG

105 S. 4th St. Artesia, NM 88210

Mailing Address: ~~4901 Hawkins NE, Ac~~

~~Albuquerque, NM, 87109~~ Ac

Phone #: 505-345-3975

email or Fax#: ~~cindy.hallenvironmental.com~~ Ac

QA/QC Package: Chase_Settle@eogresources.com

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☑ Standard ☐ Rush 5 Days

Project Name: Jackson B#5 Battery

Project #: 03C2000002

Project Manager: Tacoma Morrissey

Sampler: Alexis Castro

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.6 +0.1 = 5.7°

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chlorides (Cl^-)
04/12/22	1250	S	C_{13}	2oz; 1		013	X	X									X
	1305		C_{14}			014											
	1315		C_{15}			015											
	1330		C_{16}			016											
	1345		C_{17}			017											
	1400		C_{18}			018											
	1415		C_{19}			019											
	1430		C_{20}			020											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
04/13/22	730	Chris Mike	Cummings		4/14/22	730
4/14/22	1900	Cummings	See courier		4/15/22	8:00

Remarks:

email - chase_settle@eogresources.com

Amber_Griffin@eogresources.com

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.

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
EOG Resources, Inc.
Jackson B 5 Battery
P - 1 - 17S - 30E
Eddy County, New Mexico

Photograph 1 Date: Apr 12, 2022

Description: View of stockpile on liner following sampling facing east.

Photograph 2 Date: May 9, 2022

Description: View of backfill in the tank battery facing west.

Photograph 3 Date: May 10, 2022

Description: View of installed liner facing north.

Photograph 4 Date: May 18, 2022

Description: View of final containment and berm building.

Our ref: 12562188

September 30, 2021

Chase Settle
EOG Resources
105 S. 4th Street
Artesia, NM 88210

Jackson B #55:
Stockpile Confirmation Sampling Summary

On September 15, 2021, GHD Services Inc., on behalf of EOG Resources, collected twenty (20) composite samples within the lined stockpile at the site, with each composite sample consisting of five (5) hand borings spaced evenly within each sample cell. Figure 1 depicts the sample locations which represent no more than 25 cubic yards. Soil samples (C1 through C20) were collected from surface to the top of the liner, approximately one (1) foot below the surface of the stockpile lifts. Soil samples were collected by GHD personnel utilizing clean/decontaminated equipment. Equipment was decontaminated between soil samples utilizing an environmental detergent (e.g., Alconox) and deionized water. Personnel wore nitrile gloves at all times, along with changing gloves between samples to avoid cross contamination. Soil samples collected were put into laboratory provided containers, logged on a laboratory chain of custody form, and placed on ice in an insulated cooler to maintain a temperature of approximately 40° F (4°- 6° C). GHD concluded work after all soil samples were sealed and taken to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analytical testing of BTEX by EPA method 8021B, TPH by Method 8015B Modified and Chloride by EPA Method 300 by Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

Please contact us at (432) 686-0086 if you require further information or clarification.

Sincerely,

GHD

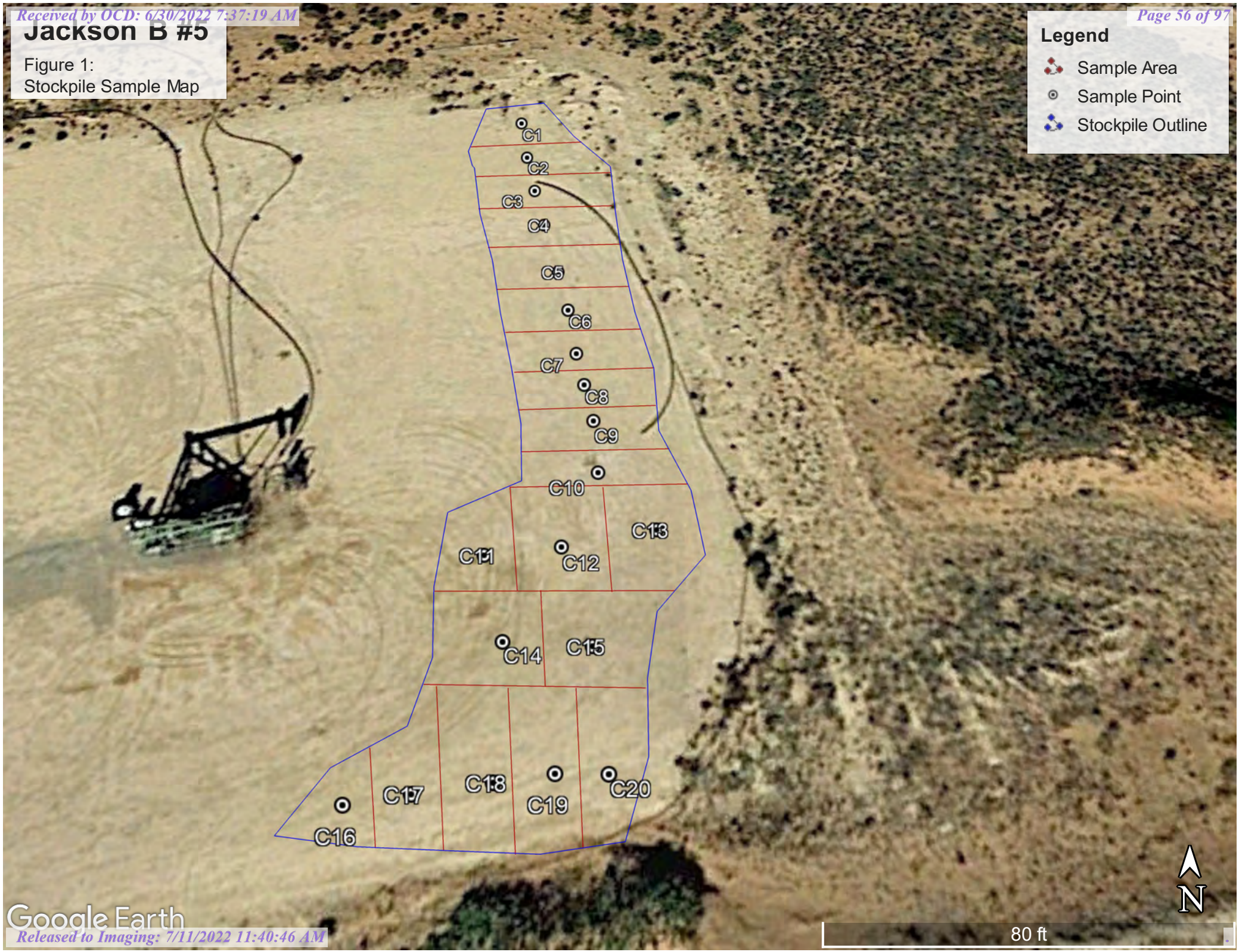
Rebecca Haskell

Becky Haskell
Senior Project Manager

CC: Tom Larson / Zach Comino

Jackson B #5

Figure 1:
Stockpile Sample Map



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 29, 2021

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

RE: Jackson B 5 OrderNo.: 2109816

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 20 sample(s) on 9/16/2021 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C1
Project: Jackson B 5
Collection Date: 9/15/2021 8:30:00 AM
Lab ID: 2109816-001 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	170	60		mg/Kg	20	9/21/2021 10:00:10 PM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	150	48		mg/Kg	5	9/17/2021 3:41:07 PM	62629
Motor Oil Range Organics (MRO)	440	240		mg/Kg	5	9/17/2021 3:41:07 PM	62629
Surr: DNOP	97.0	70-130		%Rec	5	9/17/2021 3:41:07 PM	62629
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Surr: BFB	105	70-130		%Rec	1	9/18/2021 5:54:02 AM	62628
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Toluene	ND	0.049		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Ethylbenzene	ND	0.049		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Xylenes, Total	ND	0.099		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	9/18/2021 5:54:02 AM	62628

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C2
Project: Jackson B 5
Collection Date: 9/15/2021 8:35:00 AM
Lab ID: 2109816-002 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	200	60		mg/Kg	20	9/21/2021 10:12:35 PM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	260	49		mg/Kg	5	9/17/2021 3:53:27 PM	62629
Motor Oil Range Organics (MRO)	590	250		mg/Kg	5	9/17/2021 3:53:27 PM	62629
Surr: DNOP	89.9	70-130		%Rec	5	9/17/2021 3:53:27 PM	62629
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Surr: BFB	107	70-130		%Rec	1	9/18/2021 6:17:22 AM	62628
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Toluene	ND	0.047		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Xylenes, Total	ND	0.094		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	9/18/2021 6:17:22 AM	62628

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C3
Project: Jackson B 5
Collection Date: 9/15/2021 8:40:00 AM
Lab ID: 2109816-003 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	150	60		mg/Kg	20	9/21/2021 10:49:48 PM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	1100	190		mg/Kg	20	9/17/2021 3:35:04 PM	62629
Motor Oil Range Organics (MRO)	1700	950		mg/Kg	20	9/17/2021 3:35:04 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 3:35:04 PM	62629
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Surr: BFB	105	70-130		%Rec	1	9/18/2021 6:40:59 AM	62628
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Toluene	ND	0.047		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Xylenes, Total	ND	0.095		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	9/18/2021 6:40:59 AM	62628

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C4
Project: Jackson B 5
Collection Date: 9/15/2021 8:45:00 AM
Lab ID: 2109816-004 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	160	60		mg/Kg	20	9/21/2021 11:02:13 PM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	1700	200		mg/Kg	20	9/17/2021 1:48:19 PM	62629
Motor Oil Range Organics (MRO)	2400	990		mg/Kg	20	9/17/2021 1:48:19 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 1:48:19 PM	62629
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Surr: BFB	101	70-130		%Rec	1	9/18/2021 7:04:34 AM	62628
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Toluene	ND	0.049		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Ethylbenzene	ND	0.049		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Xylenes, Total	ND	0.098		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	9/18/2021 7:04:34 AM	62628

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C5
Project: Jackson B 5
Collection Date: 9/15/2021 8:50:00 AM
Lab ID: 2109816-005 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	150	59		mg/Kg	20	9/21/2021 11:14:37 PM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	1600	190		mg/Kg	20	9/17/2021 1:57:59 PM	62629
Motor Oil Range Organics (MRO)	2200	970		mg/Kg	20	9/17/2021 1:57:59 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 1:57:59 PM	62629
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Surr: BFB	102	70-130		%Rec	1	9/18/2021 7:28:07 AM	62628
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Toluene	ND	0.047		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Xylenes, Total	ND	0.094		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	9/18/2021 7:28:07 AM	62628

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C6
Project: Jackson B 5
Collection Date: 9/15/2021 9:05:00 AM
Lab ID: 2109816-006 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	110	60		mg/Kg	20	9/21/2021 11:27:02 PM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	750	200		mg/Kg	20	9/17/2021 2:07:42 PM	62629
Motor Oil Range Organics (MRO)	1600	990		mg/Kg	20	9/17/2021 2:07:42 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 2:07:42 PM	62629
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Surr: BFB	100	70-130		%Rec	1	9/18/2021 8:38:47 AM	62628
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Toluene	ND	0.049		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Ethylbenzene	ND	0.049		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Xylenes, Total	ND	0.097		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	9/18/2021 8:38:47 AM	62628

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

CLIENT: GHD Midland
Client Sample ID: C7
Project: Jackson B 5
Collection Date: 9/15/2021 9:10:00 AM
Lab ID: 2109816-007 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	280	59		mg/Kg	20	9/21/2021 11:39:27 PM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	860	200		mg/Kg	20	9/17/2021 2:17:25 PM	62629
Motor Oil Range Organics (MRO)	1600	980		mg/Kg	20	9/17/2021 2:17:25 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 2:17:25 PM	62629
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Surr: BFB	101	70-130		%Rec	1	9/18/2021 9:02:21 AM	62628
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Toluene	ND	0.047		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Xylenes, Total	ND	0.093		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	9/18/2021 9:02:21 AM	62628

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C8
Project: Jackson B 5
Collection Date: 9/15/2021 9:15:00 AM
Lab ID: 2109816-008 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	140	60		mg/Kg	20	9/21/2021 11:51:51 PM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	580	99		mg/Kg	10	9/21/2021 5:22:11 PM	62653
Motor Oil Range Organics (MRO)	1400	500		mg/Kg	10	9/21/2021 5:22:11 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 5:22:11 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Surr: BFB	104	70-130		%Rec	1	9/18/2021 9:25:47 AM	62628
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Toluene	ND	0.048		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Ethylbenzene	ND	0.048		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Xylenes, Total	ND	0.095		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	9/18/2021 9:25:47 AM	62628

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C9
Project: Jackson B 5
Collection Date: 9/15/2021 9:20:00 AM
Lab ID: 2109816-009 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	75	60		mg/Kg	20	9/22/2021 12:04:15 AM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	330	94		mg/Kg	10	9/21/2021 5:34:50 PM	62653
Motor Oil Range Organics (MRO)	1200	470		mg/Kg	10	9/21/2021 5:34:50 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 5:34:50 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Surr: BFB	94.2	70-130		%Rec	1	9/17/2021 10:24:00 AM	62631
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Xylenes, Total	ND	0.091		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	9/17/2021 10:24:00 AM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C10
Project: Jackson B 5
Collection Date: 9/15/2021 9:25:00 AM
Lab ID: 2109816-010 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	150	61		mg/Kg	20	9/22/2021 12:16:40 AM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	340	98		mg/Kg	10	9/21/2021 5:47:27 PM	62653
Motor Oil Range Organics (MRO)	1100	490		mg/Kg	10	9/21/2021 5:47:27 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 5:47:27 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Surr: BFB	91.4	70-130		%Rec	1	9/17/2021 11:23:00 AM	62631
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Xylenes, Total	ND	0.091		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Surr: 4-Bromofluorobenzene	78.5	70-130		%Rec	1	9/17/2021 11:23:00 AM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C11
Project: Jackson B 5
Collection Date: 9/15/2021 9:45:00 AM
Lab ID: 2109816-011 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	9/22/2021 12:29:05 AM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	170	48		mg/Kg	5	9/23/2021 10:07:49 AM	62653
Motor Oil Range Organics (MRO)	400	240		mg/Kg	5	9/23/2021 10:07:49 AM	62653
Surr: DNOP	87.0	70-130		%Rec	5	9/23/2021 10:07:49 AM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Surr: BFB	97.3	70-130		%Rec	1	9/17/2021 12:22:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Toluene	ND	0.047		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Ethylbenzene	ND	0.047		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Xylenes, Total	ND	0.094		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	9/17/2021 12:22:00 PM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C12
Project: Jackson B 5
Collection Date: 9/15/2021 9:50:00 AM
Lab ID: 2109816-012 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	200	60		mg/Kg	20	9/22/2021 12:41:30 AM	62712
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	400	100		mg/Kg	10	9/21/2021 6:12:30 PM	62653
Motor Oil Range Organics (MRO)	950	500		mg/Kg	10	9/21/2021 6:12:30 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 6:12:30 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Surr: BFB	94.8	70-130		%Rec	1	9/17/2021 12:42:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Toluene	ND	0.047		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Ethylbenzene	ND	0.047		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Xylenes, Total	ND	0.094		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	9/17/2021 12:42:00 PM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C13
Project: Jackson B 5
Collection Date: 9/15/2021 9:55:00 AM
Lab ID: 2109816-013 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	170	60		mg/Kg	20	9/22/2021 4:00:30 AM	62717
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	790	90		mg/Kg	10	9/21/2021 6:25:06 PM	62653
Motor Oil Range Organics (MRO)	1400	450		mg/Kg	10	9/21/2021 6:25:06 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 6:25:06 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Surr: BFB	95.0	70-130		%Rec	1	9/17/2021 1:01:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Xylenes, Total	ND	0.093		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	9/17/2021 1:01:00 PM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C14
Project: Jackson B 5
Collection Date: 9/15/2021 10:00:00 AM
Lab ID: 2109816-014 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	100	60		mg/Kg	20	9/22/2021 4:12:54 AM	62717
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	160	98		mg/Kg	10	9/21/2021 6:37:52 PM	62653
Motor Oil Range Organics (MRO)	780	490		mg/Kg	10	9/21/2021 6:37:52 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 6:37:52 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Surr: BFB	93.2	70-130		%Rec	1	9/17/2021 1:21:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Toluene	ND	0.047		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Ethylbenzene	ND	0.047		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Xylenes, Total	ND	0.095		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	9/17/2021 1:21:00 PM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C15
Project: Jackson B 5
Collection Date: 9/15/2021 10:05:00 AM
Lab ID: 2109816-015 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	160	61		mg/Kg	20	9/22/2021 4:25:18 AM	62717
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	550	96		mg/Kg	10	9/21/2021 6:50:32 PM	62653
Motor Oil Range Organics (MRO)	1300	480		mg/Kg	10	9/21/2021 6:50:32 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 6:50:32 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Surr: BFB	98.5	70-130		%Rec	1	9/17/2021 1:41:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.025		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Toluene	ND	0.050		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Ethylbenzene	ND	0.050		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Xylenes, Total	ND	0.099		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	9/17/2021 1:41:00 PM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C16
Project: Jackson B 5
Collection Date: 9/15/2021 10:25:00 AM
Lab ID: 2109816-016 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	77	60		mg/Kg	20	9/22/2021 4:37:42 AM	62717
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	100	100		mg/Kg	10	9/21/2021 7:03:22 PM	62653
Motor Oil Range Organics (MRO)	720	500		mg/Kg	10	9/21/2021 7:03:22 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 7:03:22 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Surr: BFB	95.7	70-130		%Rec	1	9/17/2021 2:01:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Xylenes, Total	ND	0.092		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	9/17/2021 2:01:00 PM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C17
Project: Jackson B 5
Collection Date: 9/15/2021 10:30:00 AM
Lab ID: 2109816-017 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	280	60		mg/Kg	20	9/22/2021 4:50:07 AM	62717
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	520	96		mg/Kg	10	9/21/2021 7:16:12 PM	62653
Motor Oil Range Organics (MRO)	1200	480		mg/Kg	10	9/21/2021 7:16:12 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 7:16:12 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Surr: BFB	94.9	70-130		%Rec	1	9/17/2021 2:21:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Toluene	ND	0.048		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Ethylbenzene	ND	0.048		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Xylenes, Total	ND	0.096		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Surr: 4-Bromofluorobenzene	81.2	70-130		%Rec	1	9/17/2021 2:21:00 PM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C18
Project: Jackson B 5
Collection Date: 9/15/2021 10:35:00 AM
Lab ID: 2109816-018 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	130	60		mg/Kg	20	9/22/2021 5:02:32 AM	62717
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	140	10		mg/Kg	1	9/21/2021 4:44:28 PM	62653
Motor Oil Range Organics (MRO)	260	50		mg/Kg	1	9/21/2021 4:44:28 PM	62653
Surr: DNOP	91.3	70-130		%Rec	1	9/21/2021 4:44:28 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Surr: BFB	96.9	70-130		%Rec	1	9/17/2021 2:40:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Xylenes, Total	ND	0.091		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	9/17/2021 2:40:00 PM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C19
Project: Jackson B 5
Collection Date: 9/15/2021 10:40:00 AM
Lab ID: 2109816-019 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	120	61		mg/Kg	20	9/22/2021 5:14:56 AM	62717
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	170	97		mg/Kg	10	9/21/2021 7:29:09 PM	62653
Motor Oil Range Organics (MRO)	810	490		mg/Kg	10	9/21/2021 7:29:09 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 7:29:09 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Surr: BFB	95.3	70-130		%Rec	1	9/17/2021 3:40:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Toluene	ND	0.047		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Ethylbenzene	ND	0.047		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Xylenes, Total	ND	0.094		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	9/17/2021 3:40:00 PM	62631

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

Qualifiers:

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

Analytical Report
Lab Order **2109816**
Date Reported: **9/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: C20
Project: Jackson B 5
Collection Date: 9/15/2021 10:45:00 AM
Lab ID: 2109816-020 **Matrix:** SOIL **Received Date:** 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	260	60		mg/Kg	20	9/22/2021 5:27:20 AM	62717
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	150	97		mg/Kg	10	9/21/2021 7:41:46 PM	62653
Motor Oil Range Organics (MRO)	730	480		mg/Kg	10	9/21/2021 7:41:46 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 7:41:46 PM	62653
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Surr: BFB	95.7	70-130		%Rec	1	9/17/2021 3:59:00 PM	62631
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Xylenes, Total	ND	0.093		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Surr: 4-Bromofluorobenzene	79.9	70-130		%Rec	1	9/17/2021 3:59:00 PM	62631

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109816**

29-Sep-21

Client: GHD Midland

Project: Jackson B 5

Sample ID: **MB-62712** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **62712** RunNo: **81415**

Prep Date: **9/21/2021** Analysis Date: **9/21/2021** SeqNo: **2877567** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-62712** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **62712** RunNo: **81415**

Prep Date: **9/21/2021** Analysis Date: **9/21/2021** SeqNo: **2877568** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.0	90	110			

Sample ID: **MB-62717** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **62717** RunNo: **81455**

Prep Date: **9/21/2021** Analysis Date: **9/22/2021** SeqNo: **2877750** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-62717** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **62717** RunNo: **81455**

Prep Date: **9/21/2021** Analysis Date: **9/22/2021** SeqNo: **2877751** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109816**
29-Sep-21

Client: GHD Midland
Project: Jackson B 5

Sample ID: **MB-62629**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **62629**	RunNo: **81352**
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2873417** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Sample ID: **LCS-62629**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **62629**	RunNo: **81352**
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2873420** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.6	68.9	135			
Surr: DNOP	5.7		5.000		114	70	130			

Sample ID: **MB-62653**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **62653**	RunNo: **81393**
Prep Date: **9/17/2021**	Analysis Date: **9/20/2021**	SeqNo: **2877053** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.0	70	130			

Sample ID: **LCS-62653**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **62653**	RunNo: **81393**
Prep Date: **9/17/2021**	Analysis Date: **9/20/2021**	SeqNo: **2877054** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	99.0	68.9	135			
Surr: DNOP	5.1		5.000		102	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109816**
29-Sep-21

Client: GHD Midland
Project: Jackson B 5

Sample ID: **mb-62631**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **62631**	RunNo: **81375**							
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2873975**	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		96.9	70	130			

Sample ID: **lcs-62631**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **62631**	RunNo: **81375**							
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2873978**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	25.00	0	129	78.6	131			
Surr: BFB	1100		1000		109	70	130			

Sample ID: **2109816-009ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **C9**	Batch ID: **62631**	RunNo: **81375**							
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2873980**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	24.15	0	123	61.3	114			S
Surr: BFB	1100		966.2		112	70	130			

Sample ID: **2109816-009amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **C9**	Batch ID: **62631**	RunNo: **81375**							
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2873983**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.34	0	127	61.3	114	0.162	20	S
Surr: BFB	1100		933.7		113	70	130	0	0	

Sample ID: **mb-62628**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **62628**	RunNo: **81363**							
Prep Date: **9/16/2021**	Analysis Date: **9/18/2021**	SeqNo: **2874049**	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	1100		1000		107	70	130			

Sample ID: **lcs-62628**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **62628**	RunNo: **81363**							
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2874050**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109816**
29-Sep-21

Client: GHD Midland
Project: Jackson B 5

Sample ID: **lcs-62628** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **62628** RunNo: **81363**
Prep Date: **9/16/2021** Analysis Date: **9/17/2021** SeqNo: **2874050** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	78.6	131			
Surr: BFB	1200		1000		115	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109816**

29-Sep-21

Client: GHD Midland

Project: Jackson B 5

Sample ID: **mb-62631**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **62631**	RunNo: **81375**
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2874036** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.80		1.000		80.4	70	130			

Sample ID: **lcs-62631**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **62631**	RunNo: **81375**
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2874039** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.3	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		82.7	70	130			

Sample ID: **2109816-010ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **C10**	Batch ID: **62631**	RunNo: **81375**
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2874043** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9615	0	94.6	80	120			
Toluene	0.93	0.048	0.9615	0	96.3	80	120			
Ethylbenzene	0.94	0.048	0.9615	0	97.5	80	120			
Xylenes, Total	2.8	0.096	2.885	0	98.0	80	120			
Surr: 4-Bromofluorobenzene	0.78		0.9615		81.1	70	130			

Sample ID: **2109816-010amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **C10**	Batch ID: **62631**	RunNo: **81375**
Prep Date: **9/16/2021**	Analysis Date: **9/17/2021**	SeqNo: **2874047** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9524	0	95.6	80	120	0.154	20	
Toluene	0.92	0.048	0.9524	0	96.6	80	120	0.657	20	
Ethylbenzene	0.95	0.048	0.9524	0	99.5	80	120	1.12	20	
Xylenes, Total	2.8	0.095	2.857	0	99.7	80	120	0.679	20	
Surr: 4-Bromofluorobenzene	0.78		0.9524		81.5	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109816**
29-Sep-21

Client: GHD Midland
Project: Jackson B 5

Sample ID: **mb-62628** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **62628** RunNo: **81363**
Prep Date: **9/16/2021** Analysis Date: **9/18/2021** SeqNo: **2874132** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	70	130			

Sample ID: **LCS-62628** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **62628** RunNo: **81363**
Prep Date: **9/16/2021** Analysis Date: **9/17/2021** SeqNo: **2874133** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2109816** RcptNo: 1

Received By: **Kasandra Payan** **9/16/2021 8:10:00 AM** KPA

Completed By: **Sean Livingston** **9/16/2021 9:35:37 AM** Sean Livingston

Reviewed By: KPA 9/16/21

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	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?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted? N/A

Checked by: SC 9.16.21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

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
1	5.9	Good				
2	4.8	Good				

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: GHD

Mailing Address: 324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush 5-day

Project Name: Jackson B #5

Project #: 125C2188

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 2 KPG 9/16/21

Cooler Temp(including CF): 5.9+0=5.9 4.8+0=4.8 ~~6.3+0=6.3~~

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2109816	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
09152	0830	S	C1	Jar		001	X	X									X
	0835		C2			002											
	0840		C3			003											
	0845		C4			004											
	0850		C5			005											
	0905		C6			006											
	0910		C7			007											
	0915		C8			008											
	0920		C9			009											
	0925		C10			010											
	0945		C11			011											
	0950		C12			012											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
09152	1200	Zach Comino				
9/15/21	1900			carrier	9/16/21	8:10

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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.

2.62

Chain-of-Custody Record

Client: GHD

Mailing Address: 324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush 5-day

Project Name: Jackson 13 #5

Project #: 125C2188

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 2 KPG 9/16/21

Cooler Temp(including CF): 5.9+0=5.9 ~~6.3+0=6.3~~ 4.8+0=4.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
09/15/21	0955	S	C13	Jar		013	X	X									X
	1000		C14			014											
	1005		C15			015											
	1025		C16			016											
	1030		C17			017											
	1035		C18			018											
	1040		C19			019											
	1045		C20			020											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
09/15/21	1200	Zach Comino			9/15/21	1200
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				carrier	9/16/21	8:10

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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.

Appendix D
Historical Burnett Release Documents

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 20 2017
RECEIVED

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

X Initial Report Final Report

Name of Company: Burnett Oil Co., Inc. 3080	Contact: Johnny Titsworth
Address: Burnett Plaza-Ste 1500, 801 Cherry St-Unit 9, Fort Worth, TX 76102	Telephone No. (432) 425-2891
Facility Name Jackson B 5 TB	Facility Type Tank Battery

Surface Owner: BLM	Mineral Owner: BLM	API No. ~~30-015-36146~~ 30-015-41191 JACKSON B 6S

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	1	17S	30E	1145	FSL	1283	FEL	Eddy

Latitude:32.85965 **Longitude**: -103.92107

NATURE OF RELEASE

Type of Release: oil/pw	Volume of Release: 8/47	Volume Recovered: 5/45
Source of Release: Flare Stack	Date and Hour of Occurrence: 11/17/17 6:00 am	Date and Hour of Discovery 11/17/17 7:00 am
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required	If YES, To Whom? BLM – S. Tucker NMOCD – M. Bratcher	
By Whom? Johnny Titsworth	Date and Hour: 10/20/17 2:30 pm	
Was a Watercourse Reached? ☐ Yes X No	If YES, Volume Impacting the Watercourse.	

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

Describe Cause of Problem and Remedial Action Taken.*

Steel pipe running from water tanks to transfer pump corroded and released oil and produced water. The pipe has been replaced and is back in service

Describe Area Affected and Cleanup Action Taken.*

The release area is approximately 65'x2' and 40'x 25'. The footprint is completely within the facility berm. The area will be remediated to regulatory standards

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

Signature:	OIL CONSERVATION DIVISION
Printed Name: Johnny Titsworth	Approved by Environmental Specialist: Signed By
Title: HSE Coordinator	Approval Date: 11/28/17 Expiration Date: N/A
E-mail Address: jtitsworth@burnettoil.com	Conditions of Approval: ER See Attached Attached ☐ 2RP-4495
Date: 11/20/17 Phone: (432) 425-2891	

* Attach Additional Sheets If Necessary

11/27/17 AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 11/20/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4495 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 12/20/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Johnny Titsworth <jtitsworth@burnettoil.com>
Sent: Monday, November 20, 2017 11:29 AM
To: Tucker, Shelly; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD
Cc: Kyle Adams; Leslie Garvis
Subject: Jackson B 5 Tank Battery
Attachments: JB 5 initial C-141 11.17.17.doc

All
Attached is the C-141 for the Jackson B 5 TB release. I am unable to send in a signed copy at this time, I am having printer difficulties. Once we have collected samples, a work plan will be submitted. If there are any questions or concerns, feel free to contact us. thanks

Johnny Titsworth
HSE COORDINATOR

BURNETT OIL CO., INC.
P.O. Box 188
CR 220 North
Loco Hills, NM 88255
MOBILE: (432)-425-2891
EMAIL: jtitsworth@burnettoil.com

Bratcher, Mike, EMNRD

From: Johnny Titsworth <jtitsworth@burnettoil.com>
Sent: Monday, November 20, 2017 9:50 AM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly
Cc: Kyle Adams; Leslie Garvis
Subject: Jackson B 5 TB

All
On 11/17/17, we had a release at the Jackson B 5 TB. The release was 100% contained within the facility berm. Once the release footprint has been sampled a work plan will be submitted for approval. If there are any questions or concerns, feel free to contact us. Thank you.

Johnny Titsworth
HSE COORDINATOR

BURNETT OIL CO., INC.
P.O. Box 188
CR 220 North
Loco Hills, NM 88255
MOBILE: (432)-425-2891
EMAIL: jtitsworth@burnettoil.com

Appendix E
NMOCD Correspondence and Notifications

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, January 21, 2021 1:06 PM
To: Katie Jamison <Katie_Jamison@eogresources.com>
Subject: The Oil Conservation Division (OCD) has approved the application PO: GEPBH-201120-C-1410.

To whom it may concern (c/o Katie Jamison for EOG RESOURCES INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2023059703, with the following conditions:

- **Each sample should be representative of no more than 25 cubic yards.**
- **Please provide sample updates to the OCD if additional in situ remediation treatment and sampling is necessary.**
- **Evidence of the depth to groundwater determination is insufficient. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, the data should be no more than 25 years old, and well construction information should be provided. The responsible party may choose to remediate the affected area to the most stringent levels listed in Table 1 in lieu of drilling to determine the depth to groundwater.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Cristina Eads
Environmental Scientist and Specialist
505-670-5601
Cristina.Eads@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: Tina Huerta
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory; Chase Settle; Yvette Moore; Ashley Bravo
Subject: Jackson B 5 Battery (nRM2023059703) Sampling Notification
Date: Thursday, September 9, 2021 9:54:52 AM
Attachments: image001.png

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling activities to be conducted at the below location.

Jackson B 5 Battery
P-1-17S-30E
Eddy County, NM
nRM2023059703

Sampling will begin at 8:00 a.m. on Wednesday, September 15, 2021.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

From: Tina Huerta
To: Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov
Cc: Artesia S&E Spill Remediation; Artesia Regulatory
Subject: Jackson B 5 Battery (nRM2023059703) Sampling Notification
Date: Thursday, April 7, 2022 3:17:03 PM
Attachments: image001.png

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Jackson B 5 Battery
P-1-17S-30E
Eddy County, NM
nRM2023059703

Sampling will begin at 9:00 a.m. on Tuesday, April 12, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com

eog resources
Artesia Division

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
District IV
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 121725

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 121725
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	7/11/2022