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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2110638995
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

		OGRID 73			
Contact Name Chase Settle		Contact Te	elephone 575-748-1471		
Contact email Chase_Settle@eogresources.com		Incident #	(assigned by OCD) nAPP2110638995		
Contact mailing address 104 S. 4th Street, Artesia, NM 88210					
Location of Release Source					
Latitude 32.85828 Longitude -103.92643 (NAD 83 in decimal degrees to 5 decimal places)					
Site Name Jackson E	3 #17			Site Type Flow Line	
Date Release Discovere	^d 04/12/2021				plicable) 30-015-04039
Unit Letter Section	_	D			
	Township	Range		Coun	ity
M 1	17S	30E	Eddy	/	
Surface Owner: State	e 🔽 Federal 🗌 T	ribal 🔲 Private	(Name:)
		Nature an	d Vol	ume of I	Release
Motor	ial(s) Palansad (Salant n	II that apply and attac	h aalaulat	ions or specific	instification for the volumes mayided below)
Material(s) Released (Select all that apply and attach calculation Volume Released (bbls) Unknown		ions of specific	Volume Recovered (bbls) 0		
Produced Water				Volume Recovered (bbls)	
Is the concentration of dissolved chloride in produced water >10,000 mg/l?		in the	☐ Yes ☐ No		
Condensate Volume Released (bbls)			Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)			Volume/Weight Recovered (provide units)		
Cause of Release	-				
Historical impact date are unknow		long the flow	line d	uring the	well P&A process. Release volume and

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Page 2 Oil Conservation Division

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Incident ID	nAPP2110638995
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
☐ Yes ☑ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
✓ The source of the rele	ease has been stopped.	
☑ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and	
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Chase	Settle	Title: Rep Safety & Environmental Sr
Signature: Than S	ettle	Date: 04/16/2021
email: Chase_Settle	@eogresources.com	Telephone: <u>575-748-1471</u>
OCD Only		
Received by:		Date:

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Incident ID	nAPP2110638995	
District RP		
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Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ☑ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No	
Are the lateral extents of the release within a 100-year floodplain?		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ☐ Field data ☐ Data table of soil contaminant concentration data ☐ Depth to water determination ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ☐ Boring or excavation logs ☐ Photographs including date and GIS information ☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody 		

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

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Incident ID	nAPP2110638995
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr	
Signature: The Sittle	Date: 08/31/2021	
email: Chase_Settle@eogresources.com	Telephone: 575-748-1471	
OCD Only		
Received by:	Date:	

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Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.	
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
Defend Demock Only Feel of the City of the Company		
<u>Deferral Requests Only</u> : Each of the following items must be con	ifirmea as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.	
I harshy contify that the information given above is true and comple	to to the best of my knowledge and understand that nursuant to OCD	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr	
Signature: Mar Sittle	Date: 08/31/2021	
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only		
Received by:	Date:	
Approved	Approval	
Signature:	Date:	

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Incident ID nAPP2110638995

District RP
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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	ng 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 C	DDC District office must be notified 2 days prior to final sampling)	
Description of remediation activities		
and regulations all operators are required to report and/or file cer may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or reg	replete to the best of my knowledge and understand that pursuant to OCD rules retain release notifications and perform corrective actions for releases which e of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for gulations. The responsible party acknowledges they must substantially e conditions that existed prior to the release or their final land use in e OCD when reclamation and re-vegetation are complete.	
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr	
Signature: Chase Settle	Date: 03/29/2022	
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only		
Received by:	Date:	
	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible nd/or regulations.	
Closure Approved by:	Date: 04/18/2022	
Printed Name: Jennifer Nobui	Title: Environmental Specialist A	

2135 S. Loop 250 W, Midland, Texas 79703 United States www.ghd.com GHD 161

Our ref: 11228312

March 28, 2022

New Mexico Oil Conservation Division District 2 811 South First Street Artesia. New Mexico 88210

Re: Site Characterization and Closure Report Jackson B #17 Flowline Area #1 Release Site EOG Resources Inc. Incident ID: nAPP2110638995 M-01-17S-30E, Eddy County, New Mexico

To Whom It May Concern:

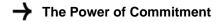
1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, remedial activities, and analyses in the affected area at the EOG Jackson B #17 Flowline Area #1 Release Site (Site). The Site is located in Unit Letter M Section 01 of Township 17 South and Range 30 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.85828 N latitude and 103.92643 W longitude. The release occurred on land managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2.

2. Background Information

A C-141 Release Notification for this release was submitted to the NMOCD on April 16, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and flowline removal associated with this location. Soils within the former flowline area appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to go ahead and file a C-141 for this suspect release location.

A Site Characterization and Remediation Work Plan date August 31, 2021 was submitted to the NMOCD for approval. The work plan was approved by the NMOCD on January 21, 2022. The Release Notification, Site Assessment/Characterization, Remediation Plan, and Closure portions of Form C-141 for Incident Number nAPP2110638995 are attached to the front of this report.



3. Groundwater and Site Characterization

GHD characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico.

On May 18, 2021, Talon LPE (Talon) installed a temporary well, Jackson B #59 Temp Well, at GPS Coordinates 32.85697 N latitude and 103.92703 W longitude, to approximately 125 feet below ground surface (ft bgs) which is located approximately 0.5 miles from the Site. The Jackson B #59 Temp Well was left open for 72 hours and a water level meter was utilized to determine the presence or absence of groundwater. No groundwater was detected, and the temporary well was plugged and abandoned. Depth to groundwater for this Site is greater than one hundred (100) feet bgs. No other receptors (karst potential areas, water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area with depth to groundwater greater than one hundred (100) feet and meets the closure criteria for depth to groundwater greater than one hundred (100) feet in Table 1 in NMAC 19.15.29.12. The Site characterization documentation (Talon's Temporary Well Log, Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	>100'

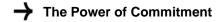
Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Constituent	Limits
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
Benzene	10mg/kg
BTEX	50 mg/kg

4. Initial Soil Delineation Assessment Summary and Findings

On April 20, 2021, an EOG representative, installed three (3) hand borings, A1-1, A1-2, and A1-3, within the suspected impacted area. Soil samples were collected at depths ranging from one (1) to ten (10) feet bgs. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Analytical results indicated BTEX concentrations above 50 mg/kg in soil samples A1-1 6' and A1-1 8' and TPH concentrations above 2,500 mg/kg in soil samples A1-1 Surface through A1-8', A1-2 Surface, A1-2 3', and A1-3 2'. None of the samples exhibited chloride concentrations above Table 1 Closure Criteria.

On May 25, 2021, GHD Services Inc. (GHD) and EOG's contractor BDS Enterprises, LLC (BDS), on behalf of EOG, installed test pits in the areas of A1-1 through A1-3 to obtain deeper samples and assess the



horizontal extent of impacts in seven additional test pits, TP-1 through TP-7 within and around the suspected affected area. The test pit locations were excavated to depths ranging from surface to approximately twenty (20) ft bgs. Soil samples were collected from varying depths of the test pits and field screened for chloride and hydrocarbons. Select samples were submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated none of the samples exhibited benzene, BTEX, TPH or chloride concentrations above Table I Closure Criteria.

On July 22, 2021, GHD and Talon returned to the site to install a soil boring near A1-1 to fully delineate the release to less than 600 mg/kg for chloride concentrations. The soil boring was installed to a depth of thirty-five (35) ft bgs. Samples were collected in approximately five (5) foot intervals beginning at twenty-five (25) ft bgs. Soil samples were submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated none of the samples exhibited benzene, BTEX, TPH or chloride concentrations above Table I Closure Criteria. The A1-1 Soil Boring Log is provided as Attachment B.

Figure 2 depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

5. Excavation, Waste Management and Confirmation Sampling

Due to the initial soil sampling activities exhibiting BTEX, TPH and chloride concentrations above NMAC Table I Closure Criteria values for depth to groundwater greater than one hundred (100) feet and above NMAC 19.15.29.13 for restoration closure criteria GHD and Standard Safety and Supply (SS) mobilized to the site on February 7, 2022, to excavate the affected soils. Excavation activities continued through February 28, 2022, and the extents were modified based off ongoing analytical sample results (discussed below). The area containing affected soil totaled approximately 1,445 square feet and was excavated to depths ranging from approximately 4 to 22 feet below grade. As shown in Figure 3, a total of nineteen (19) sidewall composite and fourteen (14) bottom hole composite confirmation samples were collected. Samples BH-1 through BH-9 and BH-12 were collected at a depth of approximately four (4) feet below grade, BH-10 and BH-11 were collected at a depth of approximately eleven (11) feet below grade. All samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. All confirmation samples collected represented areas no greater than two hundred (200) square feet. Two (2) bottom hole samples, BH-7 and BH-8 and two (2) sidewall samples, SW-3 and SW-11 exhibited either TPH or chloride concentrations above closure criteria.

The areas represented by BH-7, BH-8, SW-3 and SW-11 were further excavated. Samples BH-7A and BH-8A were collected at a depth of approximately twenty-two (22) feet below grade. The confirmation samples were taken to HEAL in Albuquerque, New Mexico. All samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. All confirmation samples collected represented areas no greater than 200 square feet. None of the final confirmation samples exhibited benzene, BTEX, TPH or chloride concentrations above Table I Closure Criteria. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment C. Analytical results are summarized in Table 1 and on attached Figure 3. A photographic log is included as Attachment C.

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste

→ The Power of Commitment

was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220. Approximately 482.04 tons of impacted soil were disposed at Lea Land, LLC, the waste manifests from February 2, 2022, through March 15, 2022, are available upon request and aren't included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2. Confirmation Sampling Notifications are included as Attachment E.

6. nAPP2110638995 Closure Requests

Site characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for nAPP2110638995.

If you have any questions or comments concerning this Site Characterization and Closure Report, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

GHD

Nate Reece

Environmental Scientist

Mark Jun-

Becky Haskell Senior Project Manager

Rebecca Haskell

NR/bh/2

Encl. Figure 1 – Site Location Map

Figure 2 – Site Assessment Soil Analytical Results Map

Figure 3 – Confirmation Sampling Analytical Results Map

Table 1 – Summary of Soil Analytical Data

Table 2 – Soil Disposal Summary

Attachment A – Site Characterization Documentation

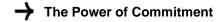
Attachment B – A1-1 Soil Boring Log

Attachment C – Photographic Log

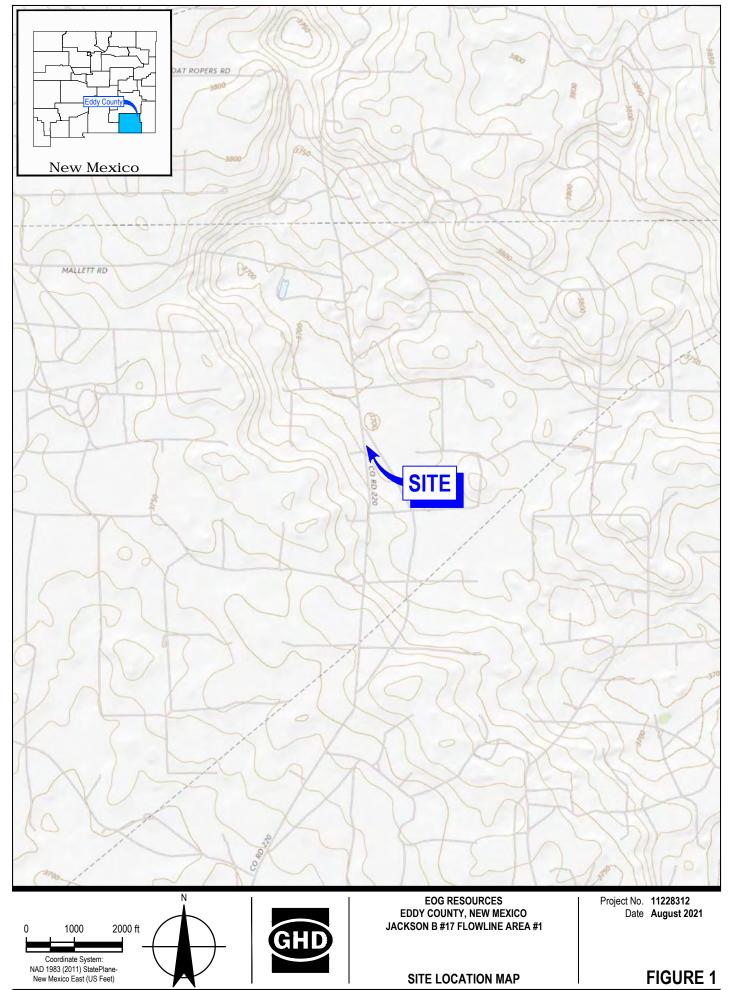
Attachment D – Laboratory Analytical Reports and Chain-of-Custody Documentation

Attachment E - Confirmation Sampling Notification

cc: Chase Settle



Figures

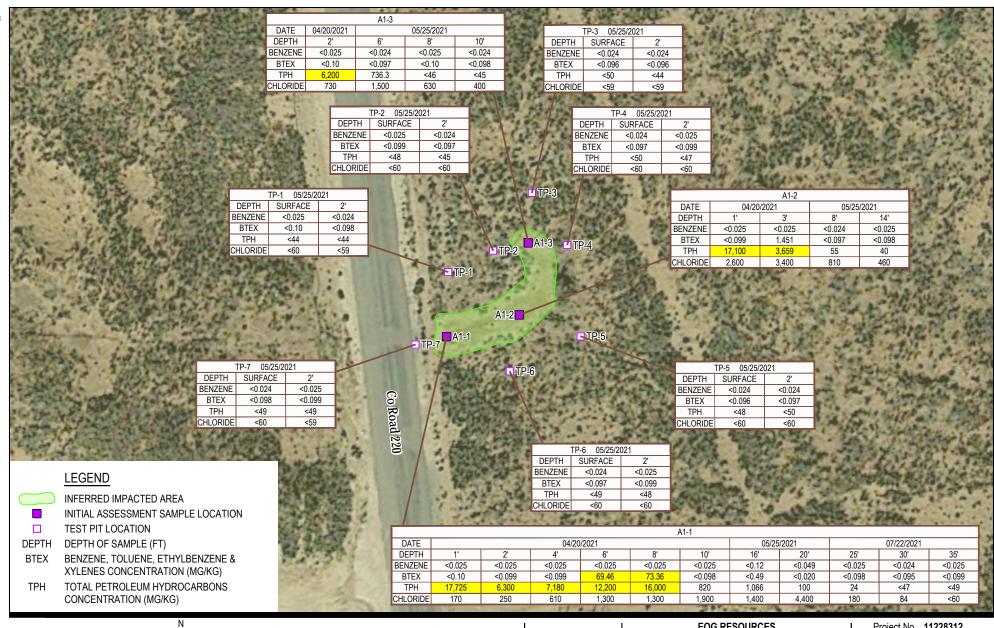


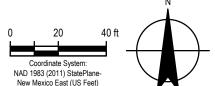
9:59:30

3/29/2022

OCD:







NOTES:

- 1. RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
- 2. SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
- 3. YELLOW SHADED CELLS INDICATE EXCEEDANCE.



EOG RESOURCES EDDY COUNTY. NEW MEXICO JACKSON B #17 FLOWLINE AREA #1

SITE ASSESSMENT: SOIL ANALYTICAL RESULTS MAP Project No. 11228312 Date August 2021

FIGURE 2

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			Benzene	BTEX	Total Petroleum Hydrocarbons (TPH)	Chloride				
	Sample	Depth			Total GRO/DRO/MRO					
Sample ID	Date	(ft bgs)	mg/kg	mg/kg	mg/kg	mg/kg				
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC							
			10 mg/kg	50 mg/kg	2,500 mg/kg	20,000 mg/kg				
		Con	firmation Samp	oles						
BH-1	2/8/22	4	<0.023	<0.093	190	2,100				
BH-2	2/8/22	4	<0.024	<0.098	400	2,200				
BH-3	2/8/22	4	<0.025	<0.099	<46	3,600				
BH-4	2/8/22	4	<0.024	<0.097	<48	880				
BH-5	2/8/22	4	<0.025	<0.099	1,370	1,200				
BH-6	2/8/22	4	<0.023	<0.093	<46	310				
BH-7	2/8/22	4	<0.025	₹0.10	1,690	1,100				
BH-7A	2/28/22	22	<0.024	<0.096	<650	480				
BH-8	2/8/22	4	<0.12	1.2	4,474	2,100				
BH-8A	2/28/22	22	<0.024	<0.098	<50	1,700				
BH-9	2/8/22	4	<0.023	<0.094	<48	350				
BH-10	2/8/22	11	<0.024	<0.097	<47	2,000				
BH-11	2/8/22	11	<0.023	<0.092	<48	2,800				
BH-12	2/23/2022	4	<0.024	<0.095	<47	2,100				
SW-1	2/8/22	Sidewall	<0.025	<0.099	<43	<60				
SW-2	2/8/22	Sidewall	<0.024	<0.095	<48	<60				
SW-3	2/8/22	Sidewall	<0.024	<0.098	<48	1,400				
SW-3A	2/23/2022	Sidewall	<0.024	<0.095	<48	<59				
SW-4	2/8/22	Sidewall	<0.024	<0.094	<49	<60				
SW-5	2/8/22	Sidewall	<0.024	<0.098	<50	74				
SW-6	2/8/22	Sidewall	<0.024	<0.096	<49	<60				
SW-7	2/8/22	Sidewall	<0.024	<0.095	<47	93				
SW-8	2/8/22	Sidewall	<0.024	<0.095	580	750				
SW-9	2/8/22	Sidewall	<0.024	<0.097	<48	210				
SW-10	2/8/22	Sidewall	<0.025	<0.098	<46	2,200				
SW-11_	2/8/22	Sidewall	<0.12	₹0.49	6300	1,900				
SW-N-11'-22'	2/28/22	Sidewall	<0.024	<0.098	<47	690				
SW-S-11'-22'	2/28/22	Sidewall	<0.024	<0.097	22	1,400				
SW-E-11'-22'	2/28/22	Sidewall	<0.025	<0.10	<42	690				
SW-W-11'-22'	2/28/22	Sidewall	<0.024	<0.095	9.6	2,000				
SW-12	2/23/2022	Sidewall	<0.025	<0.099	<45	1,700				
SW-13	2/23/2022	Sidewall	<0.024	<0.097	<40	350				
SW-14	2/23/2022	Sidewall	<0.024	<0.095	<48	1,000				

LEGEND

EXCAVATED AREA

DEPTH DEPTH OF SAMPLE (FT) BTEX BENZENE, TOLUENE, ETHYLBENZENE &

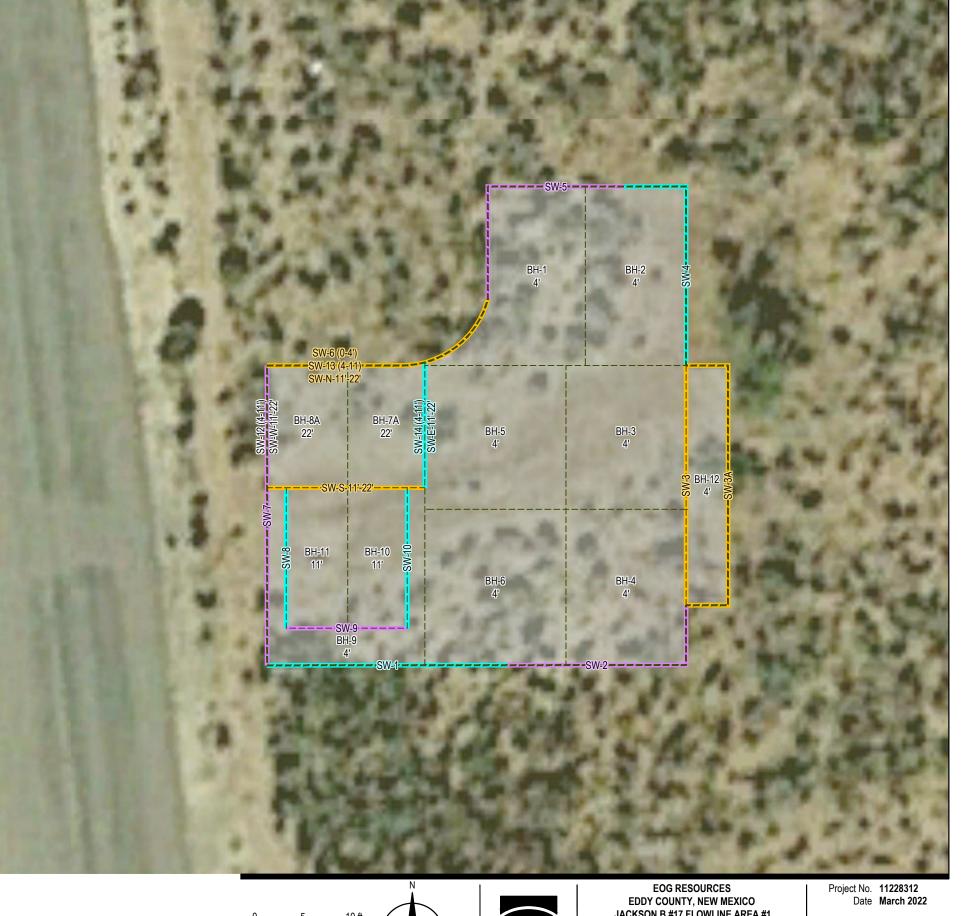
XYLENES CONCENTRATION (MG/KG) TPH TOTAL PETROLEUM HYDROCARBONS

CONCENTRATION (MG/KG)

SAMPLE POINT EXCAVATED

INDICATES SIDE WALL COMPOSITE SAMPLE INDICATES SIDE WALL COMPOSITE SAMPLE INDICATES SIDE WALL COMPOSITE SAMPLE NOTES:

- 1. RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
- 2. SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
- 3. YELLOW SHADED CELLS INDICATE EXCEEDANCE.





EDDY COUNTY, NEW MEXICO JACKSON B #17 FLOWLINE AREA #1

CONFIRMATION SAMPLING: SOIL ANALYTICAL RESULTS MAP

FIGURE 3

Tables

Table 1 Summary of Soil Analytical Data Jackson B #17 Area #1 EOG Resources Eddy County, New Mexico

			1					70	otal Petroleum	Hydrocarbons (TPH)	
Sample ID			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample	Depth	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	Date	(ft bgs)			Table I C	losure Criteria	for Soils >100	feet Depth to Gro	undwater 19.1	5.29 NMAC		
			10 mg/kg				50 mg/kg	1,000 ו	mg/kg		2,500 mg/kg	20,000 mg/kg
A1-1 Sur	·				Initial Assessmen	t Samples						
A1-1 Sur	4/20/2021	1'	<0.025	<0.050	<0.050	<0.10	<0.10	25	8,400	9,300	17,725	170
A1-1 2'	4/20/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	2,700	3,600	6,300	250
A1-1 4'	4/20/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.099	180	4,500	2,500	7,180	610
A1-1 6'	4/20/2021	6'	<0.025	0.16	2.3	67	69.46	1,200	7,600	3,400	12,200	1,300
A1-1 8'	4/20/2021	8'	<0.025	0.16	1.2	72	73.36	1,400	9,900	4,700	16,000	1,300
A1-1 10'	4/20/2021	10'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	300	520	820	1,900
A1-1 16'	5/25/2021	16'	<0.12	<0.24	<0.24	<0.49	<0.49	66	590	410	1,066	1,400
A1-1 20'	5/25/2021	20'	<0.049	<0.098	<0.098	<0.020	<0.020	<9.8	100	<50	100	4,400
A1-1 25'	7/22/2021	25'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	24	<49	24	180
A1-1 30'	7/22/2021	30'	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	84
A1-1 35'	7/22/2021	35'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	<60
A1-2 Sur	4/20/2021	1'	<0.025	< 0.050	<0.050	<0.099	<0.099	<5.0	9,500	7,600	17,100	2,600
A1-2 3'	4/20/2021	3'	<0.025	< 0.049	0.051	1.4	1.451	59	2,300	1,300	3,659	3,400
A1-2 8'	5/25/2021	8'	<0.024	<0.048	<0.048	<0.097	< 0.097	<4.8	55	<49	55	810
A1-2 14'	5/25/2021	14'	<0.025	< 0.049	<0.049	<0.098	<0.098	<4.9	40	<48	40	460
A1-3 2'	4/20/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	3,000	3,200	6,200	730
A1-3 6'	5/25/2021	6'	<0.024	<0.049	<0.049	<0.097	<0.097	6.3	340	390	736.3	1,500
A1-3 8'	5/25/2021	8'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<46	630
A1-3 10'	5/25/2021	10'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.0	<45	<45	400
TP1-S	5/25/2021	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.8	<44	<44	<60
TP1-2	5/25/2021	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.8	<44	<44	<59
TP2-S			<0.025	<0.050		<0.099						<60
TP2-5	5/25/2021	Surface 2'	<0.025		<0.050		<0.099	<5.0	<9.6	<48	<48	
	5/25/2021			<0.048	<0.048	<0.097	<0.097	<4.8	<8.9	<45	<45	<60
TP3-S	5/25/2021	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.9	<9.9	<50	<50	<59
TP3-2	5/25/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<44	<44	<59
TP4-S	5/25/2021	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	<60
TP4-2	5/25/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	<60
TP5-S	5/25/2021	Surface	<0.024	<0.049	<0.049	<0.096	<0.096	<4.8	<9.7	<48	<48	<60
TP5-2	5/25/2021	2'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	<60
TP6-S	5/25/2021	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	<60
TP6-2	5/25/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
TP7-S	5/25/2021	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	<60
TP7-2	5/25/2021	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9 <5.0	<9.8	<49 <49	<49 <49	<60 <59
171-2	3/23/2021		<u> </u>	l	com Hole Confirma		<0.033	< 3.0	₹3.0		<u> </u>	<238
BH-1	2/8/2022	4	<0.023	<0.047	<0.047	< 0.093	<0.093	<4.7	60	130	190	2,100
511-1	21012022		NO.025	\U.U41	\U.U+1	\U.U3U	\U.U3U	NT.1		130	130	2,100

Table 1 **Summary of Soil Analytical Data** Jackson B #17 Area #1 **EOG Resources Eddy County, New Mexico**

	Benzene Toluene Ethylbenzene Xylenes BTEX DRO(C10- MRO (C28- Total CI												
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride	
Sample ID	Sample Date	Depth (ft bgs)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
	Date	(It bys)			Table I C	losure Criteria i	for Soils >100 f	eet Depth to Gro	oundwater 19.15	5.29 NMAC			
			10 mg/kg				50 mg/kg	1,000	mg/kg		2,500 mg/kg	20,000 mg/kg	
BH-2	2/8/2022	4	<0.024	< 0.049	<0.049	<0.098	<0.098	<4.9	250	150	400	2,200	
BH-3	2/8/2022	4	<0.025	<0.050	<0.050	<0.099	< 0.099	<5.0	<9.2	<46	<46	3,600	
BH-4	2/8/2022	4	<0.024	<0.048	<0.048	<0.097	< 0.097	<4.8	14	<48	<48	880	
BH-5	2/8/2022	4	<0.025	< 0.049	<0.049	<0.099	< 0.099	<4.9	790	580	1,370	1,200	
BH-6	2/8/2022	4	<0.023	<0.047	<0.047	<0.093	< 0.093	<4.7	<9.3	<46	<46	310	
BH-7	2/8/2022	$\int_{\frac{1}{2}}^{d}$	<0.025	<0.050_	₹0:050	~0.10	₹0:40	₹5.0	1,100	590	1,690	7,100	
BH-7A	2/28/2022	22	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<130	<650	<650	480	
BH-8	2/8/2022	 	₹0.12	₹0:25	0.31	72/	1.2	74	2,800	1,600	4,474	2,100	
BH-8A	2/28/2022	22	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	1,700	
BH-9	2/8/2022	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	<48	<48	350	
BH-10	2/8/2022	11	<0.024	< 0.049	<0.049	<0.097	< 0.097	<4.9	<9.4	<47	<47	2,000	
BH-11	2/8/2022	11	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.5	<48	<48	2,800	
BH-12	2/23/2022	4	<0.024	<0.048	<0.048	<0.095	< 0.095	<4.8	<9.4	<47	<47	2,100	
				Sid	dewall Confirmation	on Samples							
SW-1	2/8/2022	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.5	<43	<43	<60	
SW-2	2/8/2022	Sidewall	<0.024	<0.047	<0.047	< 0.095	< 0.095	<4.7	<9.6	<48	<48	<60	
SW-3	2/8/2022	Stdewall	<0.024	₹0:049	₹0:049	≥0.09 8	≥0:098	₹4.9	7. 7./	₹48	₹48	1,400	
SW-3A	2/23/2022	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<48	<59	
SW-4	2/8/2022	Sidewall	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	<49	<49	<60	
SW-5	2/8/2022	Sidewall	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	74	
SW-6	2/8/2022	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<49	<49	<60	
SW-7	2/8/2022	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	93	
SW-8	2/8/2022	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	310	270	580	750	
SW-9	2/8/2022	Sidewall	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.7	<48	<48	210	
SW-10	2/8/2022	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	2,200	
SW-11	2/8/2022	Sidewall	₹0.12	₹0.25	₹0:25	>0.49	≥0:49	~25	3,600	2,700	6300	1,900	
SW-N-11'-22'	2/28/2022	Sidewall	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	690	
SW-S-11'-22'	2/28/2022	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	22	<45	22	1,400	
SW-E-11'-22'	2/28/2022	Sidewall	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.4	<42	<42	690	
SW-W-11'-22'	2/28/2022	Sidewall	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	9.6	<47	9.6	2,000	
SW-12	2/23/2022	Sidewall	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.1	<45	<45	1,700	
SW-13	2/23/2022	Sidewall	<0.024	<0.049	<0.049	<0.097	< 0.097	<4.9	<8.1	<40	<40	350	
SW-14	2/23/2022	Sidewall	<0.024	<0.048	<0.048	<0.095	< 0.095	<4.8	<9.6	<48	<48	1,000	

- Values reported in mg/kg

 < = Value Less than Reporting Limit (RL)

 Bold Indicates Analyte Detected

- 4 BTEX analyses by EPA Method SW 8021B.5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I for depth to water greater than 100 ft

Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I for depth to water less than 50 ft

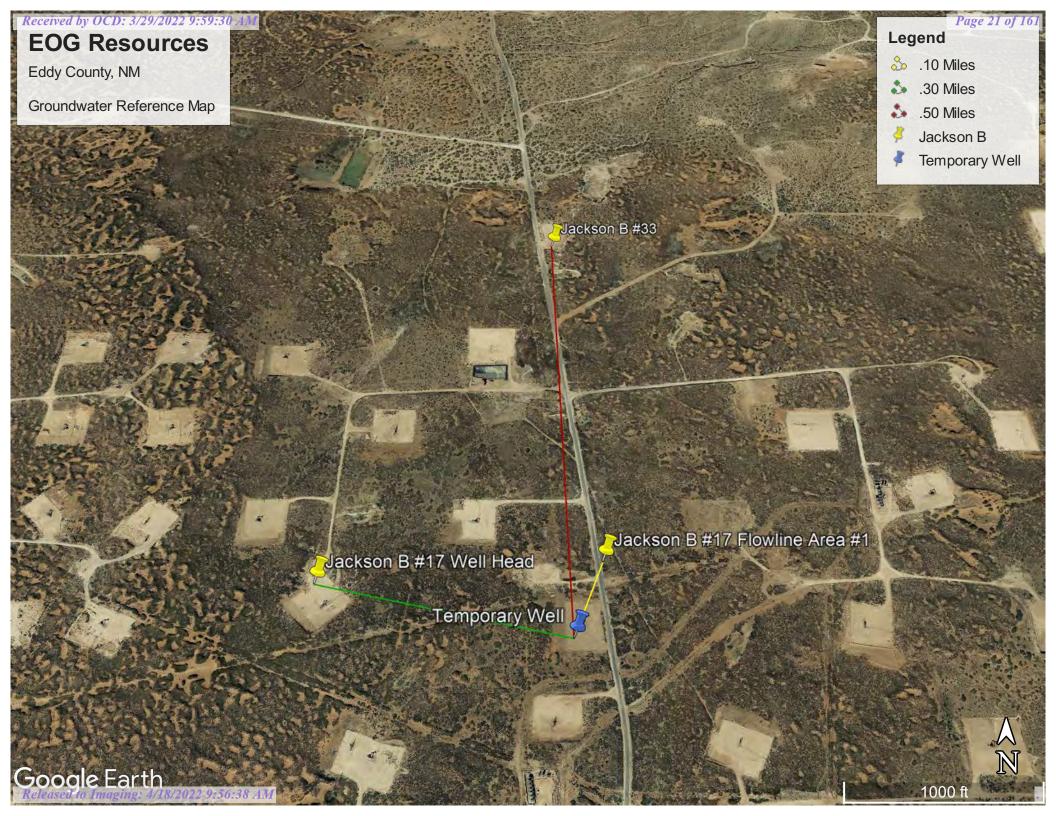
Table 1 Summary of Soil Analytical Data Jackson B #17 Area #1 EOG Resources **Eddy County, New Mexico**

Released to Ima						Table 1 mmary of Soil And Jackson B #17 EOG Resour Eddy County, Nev	Area #1 ces						Received by OC								
200									To	otal Petroleum I	Hydrocarbons (TPH)									
1g: 4.			Depth (ft bare)									Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride 3/29
	Sample ID	Sample							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg			
3		Date	(ft bgs)	Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									92								
022 9					10 mg/kg				50 mg/kg	1,000	mg/kg		2,500 mg/kg	20,000 mg/kg							
	B-BH-2	Sample Point Excav	ated	_			_	_	_				9:3								
6													õ								
38													2								

Table 2 Daily Disposal Summary Jackson B #17 Flowline Area #1 EOG Resources Eddy, County, New Mexico

Date of Disposal	Total Pounds Disposed	Total Tons Disposed
2/2/2022	605,820	302.91
2/8/2022	80,600	40.30
2/28/2022	187,740	93.87
3/15/2022	89,920	44.96
Project Total	964,080	482.04

Attachment A Site Characterization Documentation





BORING LOG

Project No.: 700438.238.01

Site Name: Jackson B #59

Boring Number: B-1

Date: 5/18/2021

Location: Eddy County, New Mexico

Field Instrument: NA Latitude: 32.85697 N

Logger: D. Adkins

Longitude: -103.92703 W

Weather: Clear, Temp.: 75°F

Driller: D. Londagin

Rig Type: Reich Drill

Bit Size: 5-7/8"

Drilling Method: Air Rotary

Sample Retrieval Method: Drill Cuttings

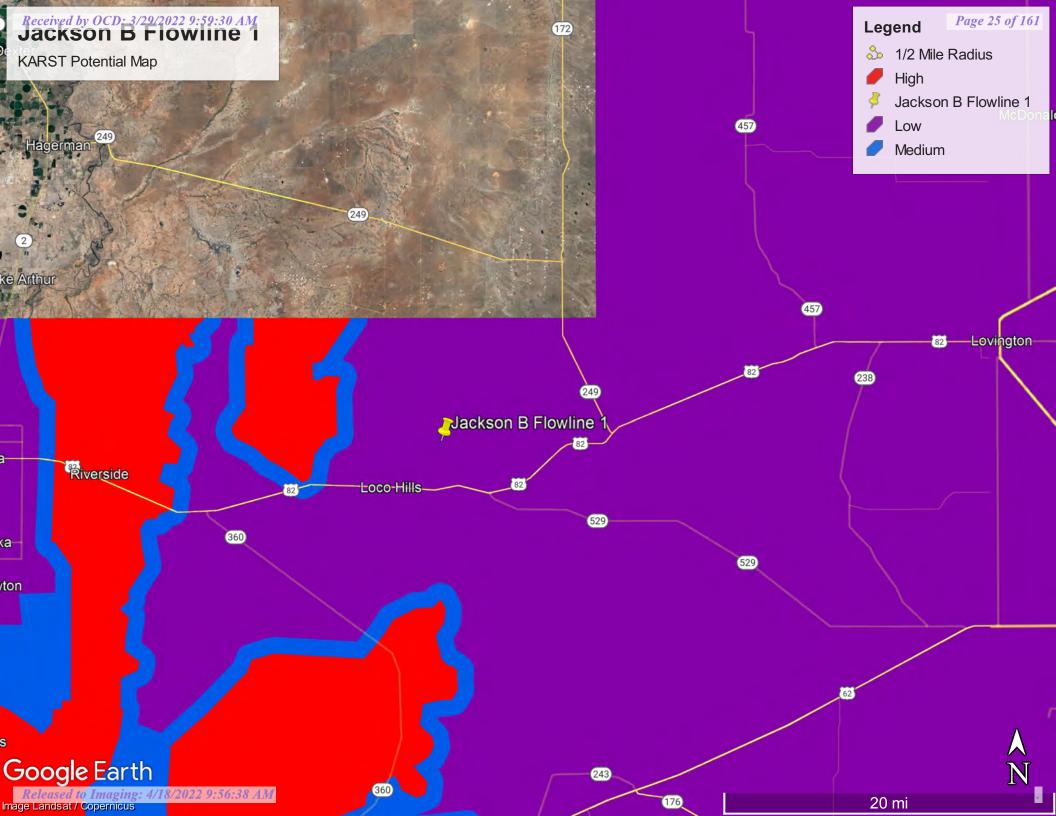
Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	nscs	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
Ē	Lab S Colle	San Inte (1	San Reco	SN	Comp			PID (
		0-30′				Red/brown fine Sand (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	
	e Eleva : Grour		ot Encour		l @ 125' BGS	6 – 72 hr. Logger Initials:	DJA	

Page _____ of ___

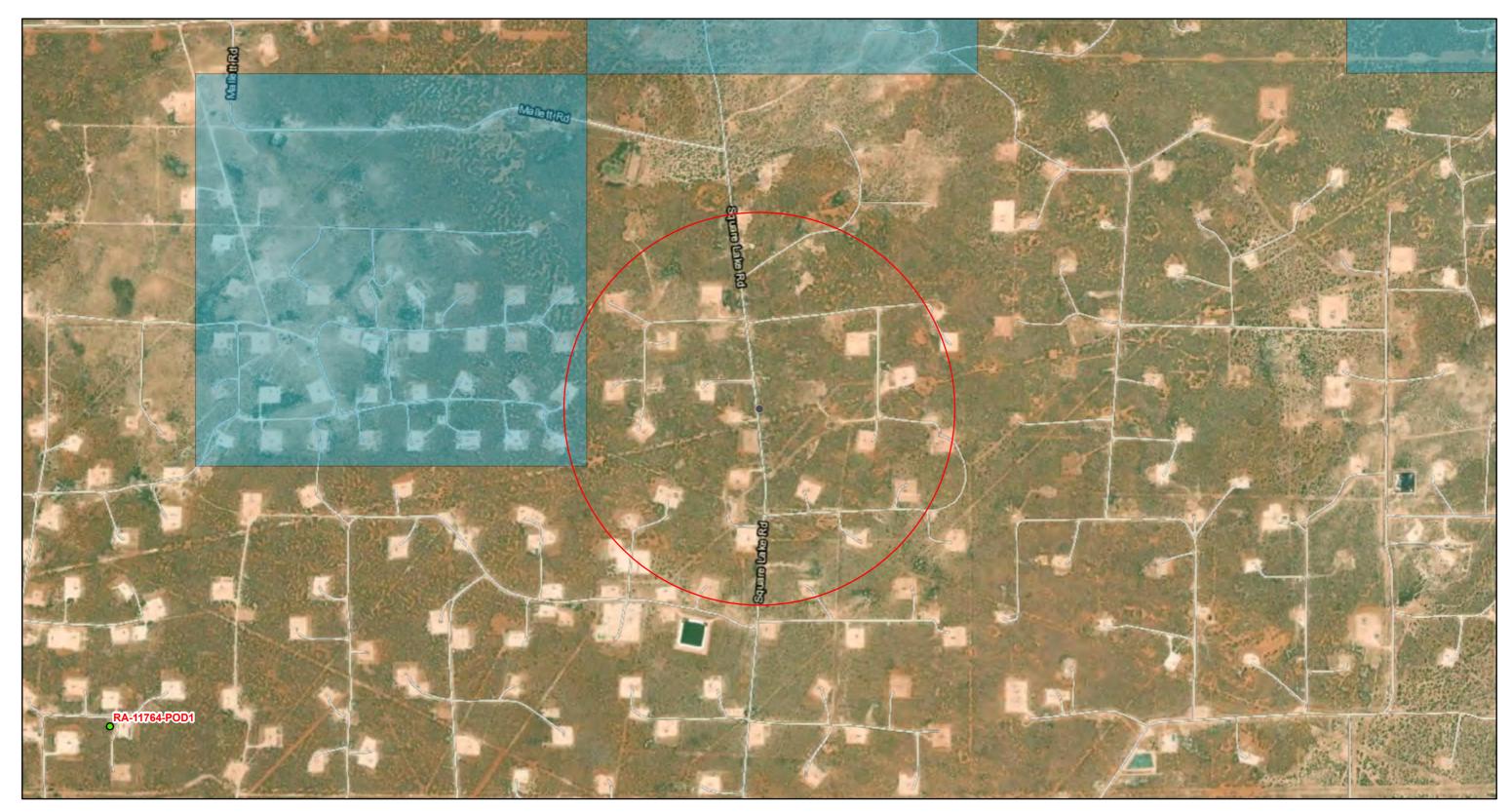
Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	uscs	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
1	Lab (Sa Int	Sa Rec	'n) Comp			PID
							None Slight	
							Mod.	
							Strong	
							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	
							None Slight	
							Mod.	
							Strong	
							None	
							Slight Mod.	
							Strong	
							None	
							Slight	
							Mod. Strong	
							None	
							Slight	
							Mod.	
							Strong	
							None Slight	
							Mod.	
							Strong	
							None	
							Slight	
							Mod. Strong	
Notes	<u> </u>						J. Jing	

The borehole was advanced to 125' below ground surface (bgs). A 2-inch diameter temporary well constructed of schedule 40 PVC thread coupled to 10-feet of machine slotted well screen was installed in the open borehole. 72-hours after installation, a Solinest water level meter was utilized to determine the presence or absence of groundwater. The temporary well casing was subsequently removed and the bore hole backfilled with hole plug (bentonite chips) and hydrated.

Page _____ of ____



OSE PUBLIC PRINT



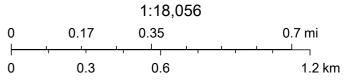
8/19/2021, 4:36:15 PM GIS WATERS PODs

Pending

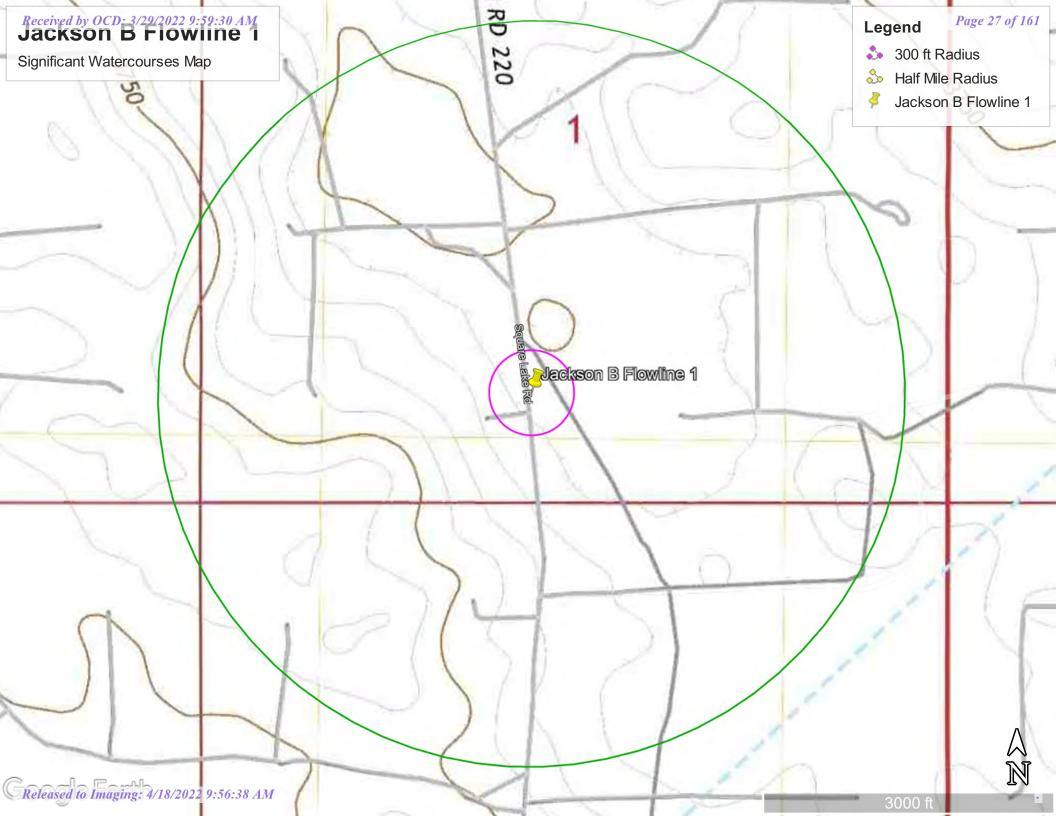
OSE District Boundary SiteBoundaries

New Mexico State Trust Lands

Both Estates



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar





EOG Jackson #17 Flowline Area #1



August 26, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Riverine

Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

OReleas 240 Imaging: 4/18/2022 9.96:38 AM

Received by OCD: 3/29/2022 9:59:30 AM National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLILL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/19/2021 at 6:39 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

point selected by the user and does not represent

an authoritative property location.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2.000

Attachment B A1-1 Soil Boring Log

GHD

STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: EOG/Jackson B #17 Flowline Area #1

PROJECT NUMBER: 11228312 CLIENT: EOG Resources. INC.

LOCATION: M-1-17S-30E; 32.858274, -103.926467

HOLE DESIGNATION: A1-1

DATE COMPLETED: 22 July 2021 DRILLING METHOD: Air Rotary

FIELD PERSONNEL: Lee M./Zach C.

DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH			SAMF	PLE	
ft BGS			m BGS	NUMBER	INTERVAL	REC (%)	mS/cm	NaCI
	Start strat log @ 20ft							
- - - - 10								
- 15 								
- - - - -	SAND, fine/medium, red and brown, dry		20.00	20-25'		100	80	Non Det
- 25 - - -	CLAYEY SAND, red and brown, caliche interbedded throughout, dry		25.00	25-30'	8	100	120	Non Det
- - - - - -	SAND, fine/medium, red and brown, dry		30.00	30-35'	1	100	80	Non Det
	END OF BOREHOLE @ 35.00ft BGS		35.00			-		
 40 								
- 								
- - - - -								
- - - - - -								
- - - - - -								
- 65 								
- - - - -								
- <u> </u> <u>NC</u>	OTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION	N TA	ABLE					1
	CHEMICAL ANALYSIS							

Attachment C Photographic Log







Site Photograph

EOG Jackson B #17 Area #1 Release Site.

GHD | Report for EOG | 11228312







Site Photograph

EOG Jackson B #17 Area #1 Release Site.

GHD | Report for EOG | 11228312







Site Photograph

EOG Jackson B #17 Area #1 Release Site.

GHD | Report for EOG | 11228312

Appendix D Laboratory Analytical Reports and Chain-of-Custody Documentation



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

April 29, 2021

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

RE: Jackson B 17 OrderNo.: 2104970

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/22/2021 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: A1-1 Sur

 Project:
 Jackson B 17
 Collection Date: 4/20/2021 2:54:00 PM

 Lab ID:
 2104970-001
 Matrix: SOIL
 Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	170	60		mg/Kg	20	4/27/2021 1:07:56 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	: JME
Diesel Range Organics (DRO)	8400	480		mg/Kg	50	4/23/2021 1:09:27 PM	59581
Motor Oil Range Organics (MRO)	9300	2400		mg/Kg	50	4/23/2021 1:09:27 PM	59581
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 1:09:27 PM	59581
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	25	5.0		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Surr: BFB	175	70-130	S	%Rec	1	4/24/2021 7:28:00 PM	59578
EPA METHOD 8021B: VOLATILES						Analyst	CCM
Benzene	ND	0.025		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Toluene	ND	0.050		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Ethylbenzene	ND	0.050		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Xylenes, Total	ND	0.10		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	4/24/2021 7:28:00 PM	59578

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

Qualifiers:

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

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

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Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: A1-1 2'

 Project:
 Jackson B 17
 Collection Date: 4/20/2021 2:56:00 PM

 Lab ID:
 2104970-002
 Matrix: SOIL
 Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	250	60		mg/Kg	20	4/27/2021 1:20:21 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	2700	470		mg/Kg	50	4/25/2021 11:09:11 AM	59581
Motor Oil Range Organics (MRO)	3600	2400		mg/Kg	50	4/25/2021 11:09:11 AM	59581
Surr: DNOP	0	70-130	S	%Rec	50	4/25/2021 11:09:11 AM	59581
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Surr: BFB	122	70-130		%Rec	1	4/24/2021 7:47:00 PM	59578
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.025		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Toluene	ND	0.050		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Ethylbenzene	ND	0.050		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Xylenes, Total	ND	0.099		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	4/24/2021 7:47:00 PM	59578

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

Qualifiers:

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

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

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Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: A1-1 4'

 Project:
 Jackson B 17
 Collection Date: 4/20/2021 2:58:00 PM

 Lab ID:
 2104970-003
 Matrix: SOIL
 Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	610	60		mg/Kg	20	4/27/2021 1:32:45 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	4500	190		mg/Kg	20	4/25/2021 11:34:52 AM	59581
Motor Oil Range Organics (MRO)	2500	970		mg/Kg	20	4/25/2021 11:34:52 AM	59581
Surr: DNOP	0	70-130	S	%Rec	20	4/25/2021 11:34:52 AM	59581
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	180	5.0		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Surr: BFB	305	70-130	S	%Rec	1	4/24/2021 8:07:00 PM	59578
EPA METHOD 8021B: VOLATILES						Analyst	CCM
Benzene	ND	0.025		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Toluene	ND	0.050		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Ethylbenzene	0.084	0.050		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Xylenes, Total	1.3	0.099		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	4/24/2021 8:07:00 PM	59578

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

Qualifiers:

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

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

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Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: A1-1 6'

 Project:
 Jackson B 17
 Collection Date: 4/20/2021 3:00:00 PM

 Lab ID:
 2104970-004
 Matrix: SOIL
 Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	1300	61		mg/Kg	20	4/27/2021 2:09:59 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	7600	190		mg/Kg	20	4/25/2021 12:00:21 PM	59581
Motor Oil Range Organics (MRO)	3400	970		mg/Kg	20	4/25/2021 12:00:21 PM	59581
Surr: DNOP	0	70-130	S	%Rec	20	4/25/2021 12:00:21 PM	59581
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: CCM
Gasoline Range Organics (GRO)	1200	250		mg/Kg	50	4/27/2021 5:38:00 PM	59578
Surr: BFB	280	70-130	S	%Rec	50	4/27/2021 5:38:00 PM	59578
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.025		mg/Kg	1	4/24/2021 8:27:00 PM	59578
Toluene	0.16	0.050		mg/Kg	1	4/24/2021 8:27:00 PM	59578
Ethylbenzene	2.3	0.050		mg/Kg	1	4/24/2021 8:27:00 PM	59578
Xylenes, Total	67	5.0		mg/Kg	50	4/27/2021 5:38:00 PM	59578
Surr: 4-Bromofluorobenzene	552	70-130	S	%Rec	1	4/24/2021 8:27:00 PM	59578

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

Qualifiers:

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

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

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Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: A1-1 8'

 Project:
 Jackson B 17
 Collection Date: 4/20/2021 3:02:00 PM

 Lab ID:
 2104970-005
 Matrix: SOIL
 Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	1300	60		mg/Kg	20	4/27/2021 2:22:23 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	9900	470		mg/Kg	50	4/25/2021 12:26:08 PM	59581
Motor Oil Range Organics (MRO)	4700	2400		mg/Kg	50	4/25/2021 12:26:08 PM	59581
Surr: DNOP	0	70-130	S	%Rec	50	4/25/2021 12:26:08 PM	59581
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: CCM
Gasoline Range Organics (GRO)	1400	250		mg/Kg	50	4/27/2021 6:18:00 PM	59578
Surr: BFB	275	70-130	S	%Rec	50	4/27/2021 6:18:00 PM	59578
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.025		mg/Kg	1	4/24/2021 8:47:00 PM	59578
Toluene	0.16	0.050		mg/Kg	1	4/24/2021 8:47:00 PM	59578
Ethylbenzene	1.2	0.050		mg/Kg	1	4/24/2021 8:47:00 PM	59578
Xylenes, Total	72	5.0		mg/Kg	50	4/27/2021 6:18:00 PM	59578
Surr: 4-Bromofluorobenzene	402	70-130	S	%Rec	1	4/24/2021 8:47:00 PM	59578

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

Qualifiers:

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

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

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Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: A1-1 10'

 Project:
 Jackson B 17
 Collection Date: 4/20/2021 3:05:00 PM

 Lab ID:
 2104970-006
 Matrix: SOIL
 Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	1900	59	mg/Kg	20	4/27/2021 2:34:47 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: mb
Diesel Range Organics (DRO)	300	9.8	mg/Kg	1	4/26/2021 11:53:14 PM	59581
Motor Oil Range Organics (MRO)	520	49	mg/Kg	1	4/26/2021 11:53:14 PM	59581
Surr: DNOP	92.6	70-130	%Rec	1	4/26/2021 11:53:14 PM	59581
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/27/2021 6:58:00 PM	59578
Surr: BFB	111	70-130	%Rec	1	4/27/2021 6:58:00 PM	59578
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	4/27/2021 6:58:00 PM	59578
Toluene	ND	0.049	mg/Kg	1	4/27/2021 6:58:00 PM	59578
Ethylbenzene	ND	0.049	mg/Kg	1	4/27/2021 6:58:00 PM	59578
Xylenes, Total	ND	0.098	mg/Kg	1	4/27/2021 6:58:00 PM	59578
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	4/27/2021 6:58:00 PM	59578

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

Qualifiers:

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

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

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Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: A1-2 Sur

 Project:
 Jackson B 17
 Collection Date: 4/20/2021 3:08:00 PM

 Lab ID:
 2104970-007
 Matrix: SOIL
 Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	2600	150		mg/Kg	50	4/27/2021 8:43:07 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	9500	490		mg/Kg	50	4/25/2021 1:17:56 PM	59581
Motor Oil Range Organics (MRO)	7600	2500		mg/Kg	50	4/25/2021 1:17:56 PM	59581
Surr: DNOP	0	70-130	S	%Rec	50	4/25/2021 1:17:56 PM	59581
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/27/2021 7:39:00 PM	59578
Surr: BFB	130	70-130		%Rec	1	4/27/2021 7:39:00 PM	59578
EPA METHOD 8021B: VOLATILES						Analyst	CCM
Benzene	ND	0.025		mg/Kg	1	4/27/2021 7:39:00 PM	59578
Toluene	ND	0.050		mg/Kg	1	4/27/2021 7:39:00 PM	59578
Ethylbenzene	ND	0.050		mg/Kg	1	4/27/2021 7:39:00 PM	59578
Xylenes, Total	ND	0.099		mg/Kg	1	4/27/2021 7:39:00 PM	59578
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	4/27/2021 7:39:00 PM	59578

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

Qualifiers:

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

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

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Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: A1-2 3'

 Project:
 Jackson B 17
 Collection Date: 4/20/2021 3:11:00 PM

 Lab ID:
 2104970-008
 Matrix: SOIL
 Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	3400	150		mg/Kg	50	4/27/2021 8:55:31 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	2300	200		mg/Kg	20	4/25/2021 1:43:54 PM	59581
Motor Oil Range Organics (MRO)	1300	1000		mg/Kg	20	4/25/2021 1:43:54 PM	59581
Surr: DNOP	0	70-130	S	%Rec	20	4/25/2021 1:43:54 PM	59581
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: CCM
Gasoline Range Organics (GRO)	59	4.9		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Surr: BFB	236	70-130	S	%Rec	1	4/24/2021 9:47:00 PM	59578
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.025		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Toluene	ND	0.049		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Ethylbenzene	0.051	0.049		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Xylenes, Total	1.4	0.099		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Surr: 4-Bromofluorobenzene	138	70-130	S	%Rec	1	4/24/2021 9:47:00 PM	59578

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

Qualifiers:

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

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

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Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: A1-3 2'

 Project:
 Jackson B 17
 Collection Date: 4/20/2021 3:14:00 PM

 Lab ID:
 2104970-009
 Matrix: SOIL
 Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	730	60		mg/Kg	20	4/27/2021 3:12:00 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: mb
Diesel Range Organics (DRO)	3000	480		mg/Kg	50	4/25/2021 2:09:59 PM	59581
Motor Oil Range Organics (MRO)	3200	2400		mg/Kg	50	4/25/2021 2:09:59 PM	59581
Surr: DNOP	0	70-130	S	%Rec	50	4/25/2021 2:09:59 PM	59581
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Surr: BFB	110	70-130		%Rec	1	4/24/2021 10:06:00 PM	59578
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.025		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Toluene	ND	0.050		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Ethylbenzene	ND	0.050		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Xylenes, Total	ND	0.10		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	4/24/2021 10:06:00 PM	59578

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104970**

29-Apr-21

Client: EOG

Project: Jackson B 17

Sample ID: MB-59643 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59643 RunNo: 76958

Prep Date: 4/26/2021 Analysis Date: 4/26/2021 SeqNo: 2727668 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-59643 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59643 RunNo: 76958

Prep Date: 4/26/2021 Analysis Date: 4/26/2021 SeqNo: 2727669 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104970**

29-Apr-21

Client: EOG

Project: Jackson B 17

Sample ID: MB-59581 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 59581 RunNo: 76896

Prep Date: 4/22/2021 Analysis Date: 4/23/2021 SeqNo: 2725255 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 13 10.00 129 70 130

Sample ID: LCS-59581 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 59581 RunNo: 76896

Prep Date: 4/22/2021 Analysis Date: 4/23/2021 SeqNo: 2725258 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 68.9 62 50.00 124 141 Surr: DNOP 6.6 5.000 131 70 130 S

Sample ID: MB-59616 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 59616 RunNo: 76932

Prep Date: 4/23/2021 Analysis Date: 4/26/2021 SeqNo: 2726483 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP 8.7 10.00 86.8 70 130

Sample ID: LCS-59616 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 59616 RunNo: 76932

Prep Date: 4/23/2021 Analysis Date: 4/26/2021 SeqNo: 2726484 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 4.4 5.000 88.9 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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104970**

29-Apr-21

Client: EOG

Project: Jackson B 17

Sample ID: LCS-59578 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 59578 RunNo: 76952

Prep Date: 4/22/2021 Analysis Date: 4/24/2021 SeqNo: 2727288 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0 Gasoline Range Organics (GRO) 25 5.0 25.00 99.8 78.6 131

Surr: BFB 1200 1000 115 70 130

Sample ID: MB-59578 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 59578 RunNo: 76952

Prep Date: 4/22/2021 Analysis Date: 4/24/2021 SeqNo: 2727289 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 105 70 130

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2104970**

29-Apr-21

Client: EOG

Project: Jackson B 17

Sample ID: LCS-59578	SampT	ype: LC	s	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 59	578	R	RunNo: 7	6952				
Prep Date: 4/22/2021	Analysis D	oate: 4/ 2	24/2021	S	SeqNo: 2	727317	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.87	0.050	1.000	0	87.1	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.9	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		87.9	70	130			

Sample ID: MB-59578	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 59	578	RunNo: 76952						
Prep Date: 4/22/2021	Analysis D	Date: 4/	24/2021	9	SeqNo: 2	727318	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Website: clients.hallenvironmental.com

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107

Client Name: EOG	Work Order Nu	mber: 2104970		RcptNo:	1
Received By: Cheyenne C	ason 4/22/2021 7:55:0	0 AM	Chal		
Completed By: Desiree Don	ninguez 4/22/2021 8:13:3	O AM	TED		
Reviewed By: TR 4/20	2/2/				
Chain of Custody					
1. Is Chain of Custody complete	e?	Yes 🗸	No 🗀	Not Present	
2. How was the sample delivered	ed?	Courier			
Log In					
Was an attempt made to coo	ol 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 containe	r(s)?	Yes 🗹	No 🗆		
6. Sufficient sample volume for	indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and	d ONG) properly preserved?	Yes 🔽	No 🗌		
8. Was preservative added to be	ottles?	Yes 🗌	No 🗹	NA 🗆	
9. Received at least 1 vial with h	eadspace <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	77
10. Were any sample containers	received broken?	Yes	No 🗹		40
				# of preserved bottles checked	(1/27/21
11. Does paperwork match bottle		Yes 🗹	No 🗆	for pH:	4 (10)
(Note discrepancies on chain		v 🗔	N	Adjusted?	12 unless noted)
 Are matrices correctly identified Is it clear what analyses were 	•	Yes ✓	No 🗔	Adjusted:	
14. Were all holding times able to		Yes ✔ Yes ✔	No ∐ No □	Checked by:	
(If no, notify customer for auth		Yes 🗹	No □	Official by.	
Special Handling (if applic	cable)				
15. Was client notified of all disci	repancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Dat	e: [XIII.		
By Whom:	Via	: eMail F	Phone 🗌 Fax	☐ In Person	
Regarding:					
Client Instructions:		·		Control of the Contro	
16. Additional remarks:					
17. Cooler Information					
	Condition Seal Intact Seal No.	Seal Date	Signed By		
	ood	T			

Received by	>	D: 3/2	9/20	229	39:	30 AM															Pa	ige 52	! 0]
	ANALYSIS LABORATOR	www.nallenvironmental.com kins NE - Albuquerque, NM 87109	10	Analysis	↓O	S '⁵Od	8270 NO ₂ ,	10 or sals O ₃ ,	y 83° 3 Met 1r, N (AO)	EDB (M PAHs b RCRA 8 8260 (V 8270 (S Total Co	×											Polot I	
		www.n 4901 Hawkins NE	Tel. 505-			AM / C) DR	OR5	15D(estici	NETEX / 200:101:800	×										Remarks:	3)
Day		#17					71.	9 N	Cooler Temp(including cP.: O , δ $ imes$ O , l $ imes$ C (°C)	A IDUG 7-0	1001	- 003	500-	h00-	500-	900-	-007	200%	-009		Pate, Time		
<u>i</u>	ne:	Kson B#1		4rek	nager:	S. Settle	التح ال	Ø Yes	p(including CF): $O_{ m c}$	Preservative Type	1										Via:	V.a.	
Turn-Around T	Project Name:	Jackson	Project #:		Project Manager:	Muse	Sampler:	On Ice;	Cooler Tem	Container Type and #	402 6 hss/							•			Received by:	Received by:	į
Chain-of-Custody Record	COMMICE)	n File				☐ Level 4 (Full Validation)	.⊏	□ Other	THE PROPERTY OF THE PROPERTY O	rix Sample Name		AI-1 2'	A1-1 41'	AI-1 61	AI-1 8'	AI-1 10'	A1-2 Sur	AI-2 3'	AI-3 2'		Relinquished by:	Relinquished by:	7.611
hain-of		Mailing Address: \int		#	r Fax#:	QA/QC Package: Standard		(pg)		Time Matrix	2,54 p	2:56	2:58	3:00	3:02	3:05	3:08	3:11	3:14		Time: Relin	\	7 40
Client:		Mailing		Phone #:	email or Fax#:	QA/QC Packa □ Standard	Accreditation:	☐ NELAC		Date	l l										Date:	# ~ / ~ / Date: 1	This



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

June 10, 2021

Tom Larson GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672

FAX

RE: Jackson B 17 Flowline 1 OrderNo.: 2105B47

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 21 sample(s) on 5/27/2021 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

andy

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT:

Analytical Report

Lab Order: 2105B47

Hall Environmental Analysis Laboratory, Inc.

Lab Order:

Date Reported: 6/10/2021

2105B47

GHD Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-001 Collection Date: 5/25/2021 9:25:00 AM

Client Sample ID: A1-1 16' Matrix: SOIL

r					
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1400	60	mg/Kg	20	6/2/2021 1:30:13 PM 60384
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	66	24	mg/Kg	5	5/29/2021 10:28:00 AM 60310
Surr: BFB	104	70-130	%Rec	5	5/29/2021 10:28:00 AM 60310
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SB
Diesel Range Organics (DRO)	590	43	mg/Kg	5	6/1/2021 4:24:15 PM 60311
Motor Oil Range Organics (MRO)	410	210	mg/Kg	5	6/1/2021 4:24:15 PM 60311
Surr: DNOP	102	70-130	%Rec	5	6/1/2021 4:24:15 PM 60311
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.12	mg/Kg	5	5/29/2021 10:28:00 AM 60310
Toluene	ND	0.24	mg/Kg	5	5/29/2021 10:28:00 AM 60310
Ethylbenzene	0.43	0.24	mg/Kg	5	5/29/2021 10:28:00 AM 60310
Xylenes, Total	1.5	0.49	mg/Kg	5	5/29/2021 10:28:00 AM 60310
Surr: 1,2-Dichloroethane-d4	84.1	70-130	%Rec	5	5/29/2021 10:28:00 AM 60310
Surr: 4-Bromofluorobenzene	84.0	70-130	%Rec	5	5/29/2021 10:28:00 AM 60310
Surr: Dibromofluoromethane	102	70-130	%Rec	5	5/29/2021 10:28:00 AM 60310
Surr: Toluene-d8	94.4	70-130	%Rec	5	5/29/2021 10:28:00 AM 60310

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

Qualifiers:

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

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

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Lab Order: 2105B47

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2021

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-002 **Collection Date:** 5/25/2021 9:35:00 AM

Client Sample ID: A1-1 20' Matrix: SOIL

- · · · · · · · · · · · · · · · · · · ·					
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed Batch ID
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	4400	150	mg/Kg	50	6/4/2021 9:43:51 AM 60384
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	9.8	mg/Kg	2	5/29/2021 10:56:32 AM 60310
Surr: BFB	103	70-130	%Rec	2	5/29/2021 10:56:32 AM 60310
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SB
Diesel Range Organics (DRO)	100	10	mg/Kg	1	5/29/2021 1:46:09 PM 60311
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/29/2021 1:46:09 PM 60311
Surr: DNOP	110	70-130	%Rec	1	5/29/2021 1:46:09 PM 60311
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analyst: JMR
Benzene	ND	0.049	mg/Kg	2	5/29/2021 10:56:32 AM 60310
Toluene	ND	0.098	mg/Kg	2	5/29/2021 10:56:32 AM 60310
Ethylbenzene	ND	0.098	mg/Kg	2	5/29/2021 10:56:32 AM 60310
Xylenes, Total	ND	0.20	mg/Kg	2	5/29/2021 10:56:32 AM 60310
Surr: 1,2-Dichloroethane-d4	83.3	70-130	%Rec	2	5/29/2021 10:56:32 AM 60310
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	2	5/29/2021 10:56:32 AM 60310
Surr: Dibromofluoromethane	104	70-130	%Rec	2	5/29/2021 10:56:32 AM 60310
Surr: Toluene-d8	96.3	70-130	%Rec	2	5/29/2021 10:56:32 AM 60310

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- 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 Limi

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Lab Order: 2105B47

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-003 **Collection Date:** 5/25/2021 10:00:00 AM

Client Sample ID: A1-2 8' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP mg/Kg Chloride 810 60 6/2/2021 1:55:01 PM 60384 20 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 5/29/2021 11:25:06 AM 60310 4.8 mg/Kg 1 Surr: BFB 102 70-130 %Rec 5/29/2021 11:25:06 AM 60310 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 55 9.8 mg/Kg 5/29/2021 1:56:26 PM 60311 1 Motor Oil Range Organics (MRO) ND 60311 49 mg/Kg 1 5/29/2021 1:56:26 PM Surr: DNOP 114 70-130 %Rec 5/29/2021 1:56:26 PM 60311 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR Benzene ND 0.024 5/29/2021 11:25:06 AM 60310 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/29/2021 11:25:06 AM 60310 Ethylbenzene ND 0.048 mg/Kg 1 5/29/2021 11:25:06 AM 60310 Xylenes, Total ND 0.097 mg/Kg 1 5/29/2021 11:25:06 AM 60310 Surr: 1,2-Dichloroethane-d4 87 0 70-130 %Rec 1 5/29/2021 11:25:06 AM 60310 Surr: 4-Bromofluorobenzene 88.0 70-130 %Rec 5/29/2021 11:25:06 AM 60310 Surr: Dibromofluoromethane 106 70-130 %Rec 5/29/2021 11:25:06 AM 60310 1 Surr: Toluene-d8 97.8 70-130 %Rec 5/29/2021 11:25:06 AM 60310

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

Qualifiers:

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

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

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Lab Order: **2105B47**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2021

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-004 **Collection Date:** 5/25/2021 10:10:00 AM

Client Sample ID: A1-2 14' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP mg/Kg Chloride 460 60 6/2/2021 2:07:26 PM 60384 20 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 4.9 5/29/2021 11:53:41 AM 60316 mg/Kg 1 Surr: BFB 104 70-130 %Rec 5/29/2021 11:53:41 AM 60316 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 40 9.7 mg/Kg 6/1/2021 10:58:11 AM 60318 1 Motor Oil Range Organics (MRO) 60318 ND 48 mg/Kg 1 6/1/2021 10:58:11 AM Surr: DNOP 127 70-130 %Rec 6/1/2021 10:58:11 AM 60318 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR Benzene ND 0.025 5/29/2021 11:53:41 AM 60316 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/29/2021 11:53:41 AM 60316 Ethylbenzene ND 0.049 mg/Kg 1 5/29/2021 11:53:41 AM 60316 Xylenes, Total ND 0.098 mg/Kg 1 5/29/2021 11:53:41 AM 60316 Surr: 1,2-Dichloroethane-d4 88 6 70-130 %Rec 1 5/29/2021 11:53:41 AM 60316 Surr: 4-Bromofluorobenzene 95.8 70-130 %Rec 5/29/2021 11:53:41 AM 60316 Surr: Dibromofluoromethane 108 70-130 %Rec 5/29/2021 11:53:41 AM 60316 1 Surr: Toluene-d8 96.8 70-130 %Rec 5/29/2021 11:53:41 AM 60316

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

Qualifiers:

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

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

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Lab Order: **2105B47**Date Reported: **6/10/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-005 **Collection Date:** 5/25/2021 10:20:00 AM

Client Sample ID: A1-3 6' Matrix: SOIL

			112002	• ~ ~	· 	
Analyses	Result	RL	Qual Units	DF	Date Analyzed I	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: VP
Chloride	1500	60	mg/Kg	20	6/2/2021 2:19:50 PM	60384
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	st: JMR
Gasoline Range Organics (GRO)	6.3	4.9	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Surr: BFB	107	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analys	st: SB
Diesel Range Organics (DRO)	340	19	mg/Kg	2	6/2/2021 4:11:46 PM	60318
Motor Oil Range Organics (MRO)	390	96	mg/Kg	2	6/2/2021 4:11:46 PM	60318
Surr: DNOP	96.3	70-130	%Rec	2	6/2/2021 4:11:46 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analys	st: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Toluene	ND	0.049	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Xylenes, Total	0.14	0.097	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Surr: 1,2-Dichloroethane-d4	88.2	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
Surr: 4-Bromofluorobenzene	88.7	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
Surr: Dibromofluoromethane	107	70-130	%Rec	1	5/29/2021 3:13:57 PM	
Surr: Toluene-d8	94.7	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316

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

Qualifiers:

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

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

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Lab Order: 2105B47

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2021

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-006 **Collection Date:** 5/25/2021 10:25:00 AM

Client Sample ID: A1-3 8' Matrix: SOIL

Cheff Sample ID: A1-3 6			Matrix	; bc	/IL		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Bat	ch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: \	VP
Chloride	630	60	mg/Kg	20	6/2/2021 2:32:15 PI	M	60384
EPA METHOD 8015D MOD: GASOLINE RANGE					Ana	lyst: .	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 4:39:44 F	PM .	60316
Surr: BFB	103	70-130	%Rec	1	5/29/2021 4:39:44 F	PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Ana	lyst: \$	SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	6/1/2021 11:36:54	AΜ	60318
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/1/2021 11:36:54	AΜ	60318
Surr: DNOP	126	70-130	%Rec	1	6/1/2021 11:36:54 A	AM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Ana	lyst: .	JMR
Benzene	ND	0.025	mg/Kg	1	5/29/2021 4:39:44 F	PM	60316
Toluene	ND	0.050	mg/Kg	1	5/29/2021 4:39:44 F	PM	60316
Ethylbenzene	ND	0.050	mg/Kg	1	5/29/2021 4:39:44 F	PM	60316
Xylenes, Total	ND	0.10	mg/Kg	1	5/29/2021 4:39:44 F	PM	60316
Surr: 1,2-Dichloroethane-d4	85.5	70-130	%Rec	1	5/29/2021 4:39:44 F	PM	60316
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	5/29/2021 4:39:44 F	PM	60316
Surr: Dibromofluoromethane	101	70-130	%Rec	1	5/29/2021 4:39:44 F	PM	60316
Surr: Toluene-d8	96.3	70-130	%Rec	1	5/29/2021 4:39:44 F	PM	60316

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

Qualifiers:

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

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

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Project:

Analytical Report

Lab Order: 2105B47

Hall Environmental Analysis Laboratory, Inc.

Jackson B 17 Flowline 1

Date Reported: 6/10/2021

2105B47

CLIENT: GHD Lab Order:

Lab ID: 2105B47-007 **Collection Date:** 5/25/2021 10:30:00 AM

Client Sample ID: A1-3 10' Matrix: SOIL

Chefit bumple 1D: 111 5 10			11141112	• 50	, I.E.	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: VP
Chloride	400	60	mg/Kg	20	6/2/2021 3:09:28 P	M 60384
EPA METHOD 8015D MOD: GASOLINE RAN	NGE				Ana	lyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 5:08:20 F	PM 60316
Surr: BFB	100	70-130	%Rec	1	5/29/2021 5:08:20	PM 60316
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Ana	lyst: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	6/1/2021 11:46:35 /	AM 60318
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/1/2021 11:46:35	AM 60318
Surr: DNOP	126	70-130	%Rec	1	6/1/2021 11:46:35 /	AM 60318
EPA METHOD 8260B: VOLATILES SHORT	LIST				Ana	lyst: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 5:08:20	PM 60316
Toluene	ND	0.049	mg/Kg	1	5/29/2021 5:08:20	PM 60316
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 5:08:20 F	PM 60316
Xylenes, Total	ND	0.098	mg/Kg	1	5/29/2021 5:08:20 F	PM 60316
Surr: 1,2-Dichloroethane-d4	80.2	70-130	%Rec	1	5/29/2021 5:08:20 F	PM 60316
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	5/29/2021 5:08:20 F	PM 60316
Surr: Dibromofluoromethane	102	70-130	%Rec	1	5/29/2021 5:08:20 F	PM 60316
Surr: Toluene-d8	94.7	70-130	%Rec	1	5/29/2021 5:08:20	PM 60316
Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	97.0 102	70-130 70-130	%Rec %Rec	1	5/29/2021 5:08:20 F 5/29/2021 5:08:20 F	PM PM

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

Qualifiers:

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

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

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Lab Order: 2105B47

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-008 **Collection Date:** 5/25/2021 10:45:00 AM

Client Sample ID: TP1-S Matrix: SOIL

			112002			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	/st: VP
Chloride	ND	60	mg/Kg	20	6/2/2021 3:21:53 PM	60384
EPA METHOD 8015D MOD: GASOLINE RANGE					Analy	/st: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 5:36:54 PI	M 60316
Surr: BFB	105	70-130	%Rec	1	5/29/2021 5:36:54 PI	M 60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analy	/st: SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	6/1/2021 11:56:18 Al	M 60318
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	6/1/2021 11:56:18 Al	M 60318
Surr: DNOP	103	70-130	%Rec	1	6/1/2021 11:56:18 Al	M 60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analy	/st: JMR
Benzene	ND	0.025	mg/Kg	1	5/29/2021 5:36:54 PI	M 60316
Toluene	ND	0.050	mg/Kg	1	5/29/2021 5:36:54 PI	M 60316
Ethylbenzene	ND	0.050	mg/Kg	1	5/29/2021 5:36:54 PI	M 60316
Xylenes, Total	ND	0.10	mg/Kg	1	5/29/2021 5:36:54 PI	M 60316
Surr: 1,2-Dichloroethane-d4	87.6	70-130	%Rec	1	5/29/2021 5:36:54 PI	M 60316
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	5/29/2021 5:36:54 PI	M 60316
Surr: Dibromofluoromethane	102	70-130	%Rec	1	5/29/2021 5:36:54 PI	
Surr: Toluene-d8	99.8	70-130	%Rec	1	5/29/2021 5:36:54 PI	M 60316

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

Qualifiers:

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

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

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Lab Order: **2105B47**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2021

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-009 **Collection Date:** 5/25/2021 10:50:00 AM

Client Sample ID: TP1-2 Matrix: SOIL

Chem Sumpic 22 C			1120012111	• ~ ~	- -	
Analyses	Result	RL (Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	:: VP
Chloride	ND	59	mg/Kg	20	6/2/2021 3:34:18 PM	60384
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 6:05:29 PM	60316
Surr: BFB	105	70-130	%Rec	1	5/29/2021 6:05:29 PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analys	: SB
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	6/1/2021 12:06:01 PM	60318
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	6/1/2021 12:06:01 PM	60318
Surr: DNOP	106	70-130	%Rec	1	6/1/2021 12:06:01 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analys	: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 6:05:29 PM	60316
Toluene	ND	0.049	mg/Kg	1	5/29/2021 6:05:29 PM	60316
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 6:05:29 PM	60316
Xylenes, Total	ND	0.098	mg/Kg	1	5/29/2021 6:05:29 PM	60316
Surr: 1,2-Dichloroethane-d4	84.5	70-130	%Rec	1	5/29/2021 6:05:29 PM	60316
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	5/29/2021 6:05:29 PM	60316
Surr: Dibromofluoromethane	102	70-130	%Rec	1	5/29/2021 6:05:29 PM	60316
Surr: Toluene-d8	97.9	70-130	%Rec	1	5/29/2021 6:05:29 PM	60316

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

Qualifiers:

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

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

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Lab Order: 2105B47

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-010 **Collection Date:** 5/25/2021 11:00:00 AM

Client Sample ID: TP2-S Matrix: SOIL

111441111	• 50	, 1L	
ual Units	DF	Date Analyzed	Batch ID
		Analy	st: VP
mg/Kg	20	6/2/2021 3:46:42 PM	60384
		Analy	st: JMR
mg/Kg	1	5/29/2021 6:34:02 PI	M 60316
%Rec	1	5/29/2021 6:34:02 PI	M 60316
		Analy	st: JME
mg/Kg	1	6/3/2021 6:40:03 PM	60318
mg/Kg	1	6/3/2021 6:40:03 PM	60318
%Rec	1	6/3/2021 6:40:03 PM	60318
		Analy	st: JMR
mg/Kg	1	5/29/2021 6:34:02 Pf	M 60316
mg/Kg	1	5/29/2021 6:34:02 Pf	M 60316
mg/Kg	1	5/29/2021 6:34:02 PI	M 60316
mg/Kg	1	5/29/2021 6:34:02 PI	M 60316
%Rec	1	5/29/2021 6:34:02 PI	M 60316
%Rec	1	5/29/2021 6:34:02 PI	M 60316
%Rec	1	5/29/2021 6:34:02 PI	M 60316
%Rec			
	mg/Kg mg/Kg %Rec mg/Kg mg/Kg mg/Kg mg/Kg %Rec %Rec	mg/Kg 1	%Rec 1 5/29/2021 6:34:02 PN Analy mg/Kg 1 6/3/2021 6:40:03 PM mg/Kg 1 6/3/2021 6:40:03 PM %Rec 1 6/3/2021 6:40:03 PM Analy mg/Kg 1 5/29/2021 6:34:02 PN mg/Kg 1 5/29/2021 6:34:02 PN mg/Kg 1 5/29/2021 6:34:02 PN %Rec 1 5/29/2021 6:34:02 PN

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

Qualifiers:

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

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

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Lab Order: 2105B47

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-011 **Collection Date:** 5/25/2021 11:05:00 AM

Client Sample ID: TP2-2 Matrix: SOIL

· · · · · · · · · · · · · · · · · · ·						
Analyses	Result	RL (Qual Units	DF	Date Analyzed Ba	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	6/2/2021 3:59:07 PM	60384
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/29/2021 7:02:50 PM	60316
Surr: BFB	106	70-130	%Rec	1	5/29/2021 7:02:50 PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	6/1/2021 12:25:28 PM	60318
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/1/2021 12:25:28 PM	60318
Surr: DNOP	117	70-130	%Rec	1	6/1/2021 12:25:28 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 7:02:50 PM	60316
Toluene	ND	0.048	mg/Kg	1	5/29/2021 7:02:50 PM	60316
Ethylbenzene	ND	0.048	mg/Kg	1	5/29/2021 7:02:50 PM	60316
Xylenes, Total	ND	0.097	mg/Kg	1	5/29/2021 7:02:50 PM	60316
Surr: 1,2-Dichloroethane-d4	85.8	70-130	%Rec	1	5/29/2021 7:02:50 PM	60316
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	1	5/29/2021 7:02:50 PM	60316
Surr: Dibromofluoromethane	100	70-130	%Rec	1	5/29/2021 7:02:50 PM	60316
Surr: Toluene-d8	99.0	70-130	%Rec	1	5/29/2021 7:02:50 PM	60316

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

Qualifiers:

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

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

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Lab Order: 2105B47

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-012 **Collection Date:** 5/25/2021 11:10:00 AM

Client Sample ID: TP3-S Matrix: SOIL

			112002	• ~ ~		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	st: VP
Chloride	ND	59	mg/Kg	20	6/2/2021 4:36:21 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE					Analy	st: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 7:31:26 PM	M 60316
Surr: BFB	106	70-130	%Rec	1	5/29/2021 7:31:26 PM	M 60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analy	st: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/1/2021 12:35:13 PM	M 60318
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/1/2021 12:35:13 PM	M 60318
Surr: DNOP	116	70-130	%Rec	1	6/1/2021 12:35:13 PM	M 60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analy	st: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 7:31:26 PM	M 60316
Toluene	ND	0.049	mg/Kg	1	5/29/2021 7:31:26 PM	M 60316
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 7:31:26 PM	M 60316
Xylenes, Total	ND	0.098	mg/Kg	1	5/29/2021 7:31:26 PM	M 60316
Surr: 1,2-Dichloroethane-d4	89.7	70-130	%Rec	1	5/29/2021 7:31:26 PM	M 60316
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	5/29/2021 7:31:26 PM	M 60316
Surr: Dibromofluoromethane	106	70-130	%Rec	1	5/29/2021 7:31:26 PM	M 60316
Surr: Toluene-d8	97.8	70-130	%Rec	1	5/29/2021 7:31:26 PM	M 60316

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- 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 Limi

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Lab Order: 2105B47

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-013 **Collection Date:** 5/25/2021 11:15:00 AM

Client Sample ID: TP3-2 Matrix: SOIL

Chem Sumpic LEV			1,14,11	• ~ ~	· 	
Analyses	Result	RL (Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	59	mg/Kg	20	6/2/2021 4:48:45 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	t: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/29/2021 7:59:58 PM	60316
Surr: BFB	108	70-130	%Rec	1	5/29/2021 7:59:58 PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	6/1/2021 12:44:58 PM	60318
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	6/1/2021 12:44:58 PM	60318
Surr: DNOP	100	70-130	%Rec	1	6/1/2021 12:44:58 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analys	t: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 7:59:58 PM	60316
Toluene	ND	0.048	mg/Kg	1	5/29/2021 7:59:58 PM	60316
Ethylbenzene	ND	0.048	mg/Kg	1	5/29/2021 7:59:58 PM	60316
Xylenes, Total	ND	0.096	mg/Kg	1	5/29/2021 7:59:58 PM	60316
Surr: 1,2-Dichloroethane-d4	87.4	70-130	%Rec	1	5/29/2021 7:59:58 PM	60316
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	5/29/2021 7:59:58 PM	60316
Surr: Dibromofluoromethane	103	70-130	%Rec	1	5/29/2021 7:59:58 PM	60316
Surr: Toluene-d8	100	70-130	%Rec	1	5/29/2021 7:59:58 PM	60316

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

Qualifiers:

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

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

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Lab Order: 2105B47

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-014 **Collection Date:** 5/25/2021 11:20:00 AM

Client Sample ID: TP4-S Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: VP mg/Kg Chloride ND 60 6/2/2021 5:01:09 PM 60394 20 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 5/29/2021 8:28:35 PM 60316 4.9 mg/Kg 1 Surr: BFB 106 70-130 %Rec 5/29/2021 8:28:35 PM 60316 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 10 mg/Kg 6/1/2021 12:54:43 PM 60318 1 Motor Oil Range Organics (MRO) 60318 ND 50 mg/Kg 1 6/1/2021 12:54:43 PM Surr: DNOP 109 70-130 %Rec 6/1/2021 12:54:43 PM 60318 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR Benzene ND 0.024 5/29/2021 8:28:35 PM 60316 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/29/2021 8:28:35 PM 60316 5/29/2021 8:28:35 PM Ethylbenzene ND 0.049 mg/Kg 1 60316 Xylenes, Total ND 0.097 mg/Kg 1 5/29/2021 8:28:35 PM 60316 Surr: 1,2-Dichloroethane-d4 87 2 70-130 %Rec 1 5/29/2021 8:28:35 PM 60316 Surr: 4-Bromofluorobenzene 95.7 70-130 %Rec 5/29/2021 8:28:35 PM 60316 Surr: Dibromofluoromethane 99.8 70-130 %Rec 5/29/2021 8:28:35 PM 60316 1 Surr: Toluene-d8 95.5 70-130 %Rec 5/29/2021 8:28:35 PM 60316

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

Qualifiers:

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

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

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Lab Order: **2105B47**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2021

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-015 **Collection Date:** 5/25/2021 11:25:00 AM

Client Sample ID: TP4-2 Matrix: SOIL

Cheff Sample 1D. 11 + 2			Matrix	. bc	, iL	
Analyses	Result	RL	Qual Units	DF	Date Analyzed B	Batch ID
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	ND	60	mg/Kg	20	6/4/2021 9:56:13 AM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	t: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 8:57:13 PM	60316
Surr: BFB	104	70-130	%Rec	1	5/29/2021 8:57:13 PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/1/2021 1:04:31 PM	60318
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/1/2021 1:04:31 PM	60318
Surr: DNOP	129	70-130	%Rec	1	6/1/2021 1:04:31 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analys	t: JMR
Benzene	ND	0.025	mg/Kg	1	5/29/2021 8:57:13 PM	60316
Toluene	ND	0.050	mg/Kg	1	5/29/2021 8:57:13 PM	60316
Ethylbenzene	ND	0.050	mg/Kg	1	5/29/2021 8:57:13 PM	60316
Xylenes, Total	ND	0.099	mg/Kg	1	5/29/2021 8:57:13 PM	60316
Surr: 1,2-Dichloroethane-d4	87.4	70-130	%Rec	1	5/29/2021 8:57:13 PM	60316
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	5/29/2021 8:57:13 PM	60316
Surr: Dibromofluoromethane	104	70-130	%Rec	1	5/29/2021 8:57:13 PM	60316
Surr: Toluene-d8	95.8	70-130	%Rec	1	5/29/2021 8:57:13 PM	60316

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

Qualifiers:

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

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

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CLIENT:

Analytical Report

Lab Order: 2105B47

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2021

2105B47

Lab Order:

GHD Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-016 Collection Date: 5/25/2021 11:30:00 AM

Client Sample ID: TP5-S Matrix: SOIL

			112002	• ~ ~		
Analyses	Result	RL	Qual Units	DF	Date Analyzed 1	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: VP
Chloride	ND	60	mg/Kg	20	6/2/2021 5:50:48 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	st: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/29/2021 9:25:56 PM	1 60316
Surr: BFB	100	70-130	%Rec	1	5/29/2021 9:25:56 PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analys	st: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/1/2021 1:14:18 PM	60318
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/1/2021 1:14:18 PM	60318
Surr: DNOP	121	70-130	%Rec	1	6/1/2021 1:14:18 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analys	st: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 9:25:56 PM	60316
Toluene	ND	0.048	mg/Kg	1	5/29/2021 9:25:56 PM	1 60316
Ethylbenzene	ND	0.048	mg/Kg	1	5/29/2021 9:25:56 PM	1 60316
Xylenes, Total	ND	0.096	mg/Kg	1	5/29/2021 9:25:56 PM	60316
Surr: 1,2-Dichloroethane-d4	88.7	70-130	%Rec	1	5/29/2021 9:25:56 PM	60316
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	5/29/2021 9:25:56 PM	60316
Surr: Dibromofluoromethane	98.4	70-130	%Rec	1	5/29/2021 9:25:56 PM	60316
Surr: Toluene-d8	95.3	70-130	%Rec	1	5/29/2021 9:25:56 PM	60316

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

Qualifiers:

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

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

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Lab Order: 2105B47

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2021

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-017 **Collection Date:** 5/25/2021 11:35:00 AM

Client Sample ID: TP5-2 Matrix: SOIL

- · · · · · · · · ·						
Analyses	Result	RL (Qual Units	DF	Date Analyzed B	atch ID
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	6/2/2021 6:03:12 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 9:54:27 PM	60316
Surr: BFB	102	70-130	%Rec	1	5/29/2021 9:54:27 PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/1/2021 1:24:07 PM	60318
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	6/1/2021 1:24:07 PM	60318
Surr: DNOP	121	70-130	%Rec	1	6/1/2021 1:24:07 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 9:54:27 PM	60316
Toluene	ND	0.049	mg/Kg	1	5/29/2021 9:54:27 PM	60316
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 9:54:27 PM	60316
Xylenes, Total	ND	0.097	mg/Kg	1	5/29/2021 9:54:27 PM	60316
Surr: 1,2-Dichloroethane-d4	80.9	70-130	%Rec	1	5/29/2021 9:54:27 PM	60316
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	5/29/2021 9:54:27 PM	60316
Surr: Dibromofluoromethane	102	70-130	%Rec	1	5/29/2021 9:54:27 PM	60316
Surr: Toluene-d8	97.7	70-130	%Rec	1	5/29/2021 9:54:27 PM	60316

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

Qualifiers:

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

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

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CLIENT:

Analytical Report

Lab Order: 2105B47

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

Lab Order: 2105B47

GHD Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-018 **Collection Date:** 5/25/2021 11:40:00 AM

Client Sample ID: TP6-S Matrix: SOIL

r						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed Batch	h ID
EPA METHOD 300.0: ANIONS					Analyst: V I	P
Chloride	ND	60	mg/Kg	20	6/2/2021 6:15:36 PM 60	0394
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: J	MR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 10:22:57 PM 60	0316
Surr: BFB	103	70-130	%Rec	1	5/29/2021 10:22:57 PM 60	0316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SI	В
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/1/2021 1:33:58 PM 60	0318
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/1/2021 1:33:58 PM 60	0318
Surr: DNOP	120	70-130	%Rec	1	6/1/2021 1:33:58 PM 60	0318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: J	MR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 10:22:57 PM 60	0316
Toluene	ND	0.049	mg/Kg	1	5/29/2021 10:22:57 PM 60	0316
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 10:22:57 PM 60	0316
Xylenes, Total	ND	0.097	mg/Kg	1	5/29/2021 10:22:57 PM 60	0316
Surr: 1,2-Dichloroethane-d4	85.7	70-130	%Rec	1	5/29/2021 10:22:57 PM 60	0316
Surr: 4-Bromofluorobenzene	96.1	70-130	%Rec	1	5/29/2021 10:22:57 PM 60	0316
Surr: Dibromofluoromethane	103	70-130	%Rec	1	5/29/2021 10:22:57 PM 60	0316
Surr: Toluene-d8	97.6	70-130	%Rec	1	5/29/2021 10:22:57 PM 60	0316

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

Qualifiers:

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

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

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Lab Order: 2105B47

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/10/2021

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-019 **Collection Date:** 5/25/2021 11:45:00 AM

Client Sample ID: TP6-2 Matrix: SOIL

Chefit Sample ID. 110-2			Manix	. 50	/IL	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Ana	lyst: VP
Chloride	ND	60	mg/Kg	20	6/2/2021 6:28:01 PM	M 60394
EPA METHOD 8015D MOD: GASOLINE RANGE					Ana	lyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 10:51:28	PM 60316
Surr: BFB	102	70-130	%Rec	1	5/29/2021 10:51:28	PM 60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Ana	lyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/1/2021 1:43:50 PM	M 60318
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/1/2021 1:43:50 PM	M 60318
Surr: DNOP	101	70-130	%Rec	1	6/1/2021 1:43:50 PM	M 60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Ana	lyst: JMR
Benzene	ND	0.025	mg/Kg	1	5/29/2021 10:51:28	PM 60316
Toluene	ND	0.050	mg/Kg	1	5/29/2021 10:51:28	PM 60316
Ethylbenzene	ND	0.050	mg/Kg	1	5/29/2021 10:51:28	PM 60316
Xylenes, Total	ND	0.099	mg/Kg	1	5/29/2021 10:51:28	PM 60316
Surr: 1,2-Dichloroethane-d4	85.1	70-130	%Rec	1	5/29/2021 10:51:28	PM 60316
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	5/29/2021 10:51:28	PM 60316
Surr: Dibromofluoromethane	100	70-130	%Rec	1	5/29/2021 10:51:28	PM 60316
Surr: Toluene-d8	96.6	70-130	%Rec	1	5/29/2021 10:51:28	PM 60316

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

Qualifiers:

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

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

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CLIENT:

Analytical Report

Lab Order: 2105B47

Date Reported: 6/10/2021

2105B47

Hall Environmental Analysis Laboratory, Inc.

Lab Order:

GHD Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-020 Collection Date: 5/25/2021 11:50:00 AM

Client Sample ID: TP7-S Matrix: SOIL

			1.14411111	• ~ ~	- <u>-</u>	
Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: VP
Chloride	ND	60	mg/Kg	20	6/2/2021 6:40:25 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	st: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 11:20:01 P	M 60316
Surr: BFB	102	70-130	%Rec	1	5/29/2021 11:20:01 P	M 60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analys	st: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2021 1:07:50 PM	60318
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/4/2021 1:07:50 PM	60318
Surr: DNOP	83.0	70-130	%Rec	1	6/4/2021 1:07:50 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST					Analys	st: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 11:20:01 P	M 60316
Toluene	ND	0.049	mg/Kg	1	5/29/2021 11:20:01 P	M 60316
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 11:20:01 P	M 60316
Xylenes, Total	ND	0.098	mg/Kg	1	5/29/2021 11:20:01 P	M 60316
Surr: 1,2-Dichloroethane-d4	87.7	70-130	%Rec	1	5/29/2021 11:20:01 P	M 60316
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	5/29/2021 11:20:01 P	M 60316
Surr: Dibromofluoromethane	101	70-130	%Rec	1	5/29/2021 11:20:01 P	M 60316
Surr: Toluene-d8	94.5	70-130	%Rec	1	5/29/2021 11:20:01 P	M 60316

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

Qualifiers:

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

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

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Analytical Report

Lab Order: **2105B47**Date Reported: **6/10/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Lab Order: 2105B47

Project: Jackson B 17 Flowline 1

Lab ID: 2105B47-021 **Collection Date:** 5/25/2021 11:55:00 AM

Client Sample ID: TP7-2 Matrix: SOIL

		Matrix	: 50	AL .	
Result	RL Qu	ial Units	DF	Date Analyzed	Batch ID
				Ana	alyst: VP
ND	59	mg/Kg	20	6/2/2021 6:52:50 F	PM 60394
.				Ana	alyst: JMR
ND	5.0	mg/Kg	1	5/29/2021 11:48:37	7 PM 60316
105	70-130	%Rec	1	5/29/2021 11:48:3	7 PM 60316
ANICS				Ana	alyst: SB
ND	9.8	mg/Kg	1	6/2/2021 1:24:14 F	PM 60318
ND	49	mg/Kg	1	6/2/2021 1:24:14 F	PM 60318
92.2	70-130	%Rec	1	6/2/2021 1:24:14 F	PM 60318
Г				Ana	alyst: JMR
ND	0.025	mg/Kg	1	5/29/2021 11:48:37	7 PM 60316
ND	0.050	mg/Kg	1	5/29/2021 11:48:37	7 PM 60316
ND	0.050	mg/Kg	1	5/29/2021 11:48:37	7 PM 60316
ND	0.099	mg/Kg	1	5/29/2021 11:48:37	7 PM 60316
85.5	70-130	%Rec	1	5/29/2021 11:48:37	7 PM 60316
101	70-130	%Rec	1	5/29/2021 11:48:37	7 PM 60316
98.7	70-130	%Rec	1	5/29/2021 11:48:3	7 PM 60316
98.0	70-130	%Rec	1	5/29/2021 11:48:3	7 PM 60316
	ND ND 105 ANICS ND ND 92.2 T ND ND ND ND ND ND ND ND ND	ND 59 ND 5.0 105 70-130 ANICS ND 9.8 ND 49 92.2 70-130 ND 0.025 ND 0.050 ND 0.050 ND 0.050 ND 0.099 85.5 70-130 101 70-130 98.7 70-130	Result RL Qual Units ND 59 mg/Kg ND 5.0 mg/Kg 105 70-130 %Rec ANICS ND 9.8 mg/Kg ND 49 mg/Kg 92.2 70-130 %Rec T ND 0.025 mg/Kg ND 0.050 mg/Kg ND 0.050 mg/Kg ND 0.099 mg/Kg ND	Result RL Qual Units DF ND 59 mg/Kg 20 E ND 5.0 mg/Kg 1 105 70-130 %Rec 1 ANICS ND 9.8 mg/Kg 1 ND 49 mg/Kg 1 ND 49 mg/Kg 1 ND 0.025 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.050 mg/Kg 1 ND 0.099 mg/Kg 1 ND 0.090 mg/Kg	Ana ND 59 mg/Kg 20 6/2/2021 6:52:50 F Ana ND 5.0 mg/Kg 1 5/29/2021 11:48:37 105 70-130 %Rec 1 5/29/2021 11:48:37 ANICS ND 9.8 mg/Kg 1 6/2/2021 1:24:14 F ND 49 mg/Kg 1 6/2/2021 1:24:14 F 92.2 70-130 %Rec 1 6/2/2021 1:24:14 F T Ana ND 0.025 mg/Kg 1 5/29/2021 11:48:37 ND 0.050 mg/Kg 1 5/29/2021 11:48:37 ND 0.050 mg/Kg 1 5/29/2021 11:48:37 ND 0.099 mg/Kg 1 5/29/2021 11:48:37

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2105B47**

Client: GHD

Project: Jackson B 17 Flowline 1

Sample ID: MB-60384 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 60384 RunNo: 78792

Prep Date: 6/2/2021 Analysis Date: 6/2/2021 SeqNo: 2764168 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-60384 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60384 RunNo: 78792

Prep Date: 6/2/2021 Analysis Date: 6/2/2021 SeqNo: 2764169 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.8 90 110

Sample ID: MB-60394 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 60394 RunNo: 78792

Prep Date: 6/2/2021 Analysis Date: 6/2/2021 SeqNo: 2764200 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-60394 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60394 RunNo: 78792

Prep Date: 6/2/2021 Analysis Date: 6/2/2021 SeqNo: 2764201 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.4 90 110

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

2105B47 10-Jun-21

WO#:

Client: GHD

Project: Jackson B 17 Flowline 1

Sample ID: LCS-60311 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 60311 RunNo: 78762

Prep Date: 5/28/2021 Analysis Date: 5/29/2021 SeqNo: 2761235 Units: mq/Kq

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 64 10 50.00 Λ 128 68.9 141 Surr: DNOP 6.2 5.000 124 130

Sample ID: MB-60311 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 60311 RunNo: 78762

Prep Date: Analysis Date: 5/29/2021 5/28/2021 SeqNo: 2761240 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

50 Motor Oil Range Organics (MRO) ND

Surr: DNOP 10.00 107 70 130 11

Sample ID: 2105B47-004AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: A1-2 14 Batch ID: 60318 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762478 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 70 47.35 39.63 15 9.5 63.1 184

Surr: DNOP 5.0 4.735 106 70 130

Sample ID: 2105B47-004AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: A1-2 14' Batch ID: 60318 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762479 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 72 9.3 46.64 39.63 68.4 15 184 3.00 23.9 Surr: DNOP 4.664 117 70 130 0 0 5.5

Sample ID: LCS-60318 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS

Client ID: LCSS Batch ID: 60318 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762508 Units: mg/Kg

%REC %RPD Analyte Result **PQL** SPK value SPK Ref Val HighLimit **RPDLimit** Qual LowLimit Diesel Range Organics (DRO) 55 10 50.00 110 68.9 141

Surr: DNOP 5.2 5.000 105 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 23 of 28

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105B47** *10-Jun-21*

Client: GHD

Project: Jackson B 17 Flowline 1

Sample ID: MB-60318 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 60318 RunNo: 78780

Prep Date: 5/28/2021 Analysis Date: 6/1/2021 SeqNo: 2762510 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 10.00 113 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2105B47 10-Jun-21

WO#:

Client: GHD

Project: Jackson B 17 Flowline 1

Sample ID: Ics-60310	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: BatchQC	Batcl	n ID: 60 3	310	F	RunNo: 7 8	3775				
Prep Date: 5/27/2021	Analysis D	Date: 5/ 2	28/2021	8	SeqNo: 2	761812	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.3	80	120			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.5	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.1	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.49		0.5000		97.6	70	130			

Sample ID: Ics-60316	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: LCSS	Batc	h ID: 60 :	316	F	RunNo: 7	8775				
Prep Date: 5/27/2021	Analysis [Date: 5/	29/2021	5	SeqNo: 2	761813	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	70	130			
Toluene	0.97	0.050	1.000	0	96.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		80.7	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.3	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.0	70	130			
Surr: Toluene-d8	0.47		0.5000		93.0	70	130			

Sample ID: mb-60310	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: PBS	Batcl	n ID: 60 3	310	F	RunNo: 7	8775				
Prep Date: 5/27/2021	Analysis D	Date: 5/ 2	28/2021	S	SeqNo: 2	761814	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.8	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.48		0.5000		96.3	70	130			

 Sample ID:
 mb-60316
 SampType:
 MBLK
 TestCode:
 EPA Method 8260B:
 Volatiles Short List

 Client ID:
 PBS
 Batch ID:
 60316
 RunNo:
 78775

 Prep Date:
 5/27/2021
 Analysis Date:
 5/29/2021
 SeqNo:
 2761815
 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

Page 25 of 28

Hall Environmental Analysis Laboratory, Inc.

WO#: 2105B47

10-Jun-21

Client: GHD

Project: Jackson B 17 Flowline 1

Sample ID: mb-60316 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List Client ID: PBS Batch ID: 60316 RunNo: 78775

Prep Date: 5/27/2021 Analysis Date: 5/29/2021 SeqNo: 2761815 Units: mq/Kq SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 1,2-Dichloroethane-d4 0.43 0.5000 86.3 70 130 Surr: 4-Bromofluorobenzene 0.48 0.5000 95.3 70 130 Surr: Dibromofluoromethane 0.52 0.5000 105 70 130 Surr: Toluene-d8 0.48 0.5000 95.4 70 130

Sample ID: 2105b47-005ams TestCode: EPA Method 8260B: Volatiles Short List SampType: MS4 Client ID: A1-3 6' Batch ID: 60316 RunNo: 78775 Prep Date: 5/27/2021 Analysis Date: 5/29/2021 SeqNo: 2761840 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Analyte 0.9775 0 112 73.5 Benzene 1.1 0.024 138 Toluene 1.1 0.049 0.9775 0 111 83 131 Ethylbenzene 0.049 0.9775 0.03682 109 84.9 132 1 1 Xylenes, Total 3.4 0.098 2.933 0.1351 112 79.6 144 Surr: 1,2-Dichloroethane-d4 0.41 0.4888 84.6 70 130 Surr: 4-Bromofluorobenzene 0.44 0.4888 90.5 70 130 Surr: Dibromofluoromethane 0.49 0.4888 100 70 130 Surr: Toluene-d8 0.47 0.4888 96.2 130

Sample ID: 2105b47-005amsd SampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List

Client ID: A1-3 6' Batch ID: 60316 RunNo: 78775

Prep Date: 5/27/2021	Analysis D	Date: 5/ 2	29/2021	S	SeqNo: 27	761841	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9891	0	117	73.5	138	5.94	20	
Toluene	1.1	0.049	0.9891	0	109	83	131	0.718	20	
Ethylbenzene	1.1	0.049	0.9891	0.03682	110	84.9	132	2.16	20	
Xylenes, Total	3.3	0.099	2.967	0.1351	105	79.6	144	5.00	20	
Surr: 1,2-Dichloroethane-d4	0.41		0.4946		83.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.46		0.4946		92.5	70	130	0	0	
Surr: Dibromofluoromethane	0.50		0.4946		102	70	130	0	0	
Surr: Toluene-d8	0.47		0.4946		94.6	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 26 of 28

Hall Environmental Analysis Laboratory, Inc.

2105B47 10-Jun-21

WO#:

Client: GHD

Project: Jackson B 17 Flowline 1

Sample ID: Ics-60310 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 60310 RunNo: 78775

Prep Date: 5/27/2021 Analysis Date: 5/28/2021 SeqNo: 2761980 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 23 5.0 25.00 Λ 92.2 70 130 Surr: BFB 500 500.0 101 70 130

Sample ID: Ics-60316 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 60316 RunNo: 78775

Prep Date: 5/27/2021 Analysis Date: 5/29/2021 SeqNo: 2761981 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 86.4 70 130 Surr: BFB 500 500.0 101 70 130

Sample ID: mb-60310 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 60310 RunNo: 78775

Prep Date: 5/27/2021 Analysis Date: 5/28/2021 SeqNo: 2761983 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 520 500.0 103 70 130

Sample ID: mb-60316 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 60316 RunNo: 78775

Prep Date: 5/27/2021 Analysis Date: 5/29/2021 SeqNo: 2761984 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
 500
 500.0
 99.6
 70
 130

Sample ID: 2105b47-004ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: A1-2 14' Batch ID: 60316 RunNo: 78775

Prep Date: 5/27/2021 Analysis Date: 5/29/2021 SeqNo: 2762003 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 4.9 0 64.4 24.56 91.8 124 Surr: BFB 490 491.2 100 70 130

Sample ID: 2105b47-004amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: A1-2 14' Batch ID: 60316 RunNo: 78775

Prep Date: 5/27/2021 Analysis Date: 5/29/2021 SeqNo: 2762004 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

Page 27 of 28

Hall Environmental Analysis Laboratory, Inc.

WO#: **2105B47**

10-Jun-21

Client: GHD

Project: Jackson B 17 Flowline 1

Sample ID: 2105b47-004amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: A1-2 14' Batch ID: 60316 RunNo: 78775

Prep Date: 5/27/2021 Analysis Date: 5/29/2021 SeqNo: 2762004 Units: mg/Kg

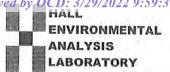
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.53	0	98.3	64.4	124	6.72	20	
Surr: BFB	510		490.7		105	70	130	0	0	

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

Page 28 of 28



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	Work Order Num	ber: 2105B47		RcptNo: 1
Received By:	Juan Rojas	5/27/2021 7:40:00	АМ	Heaving	
Completed By:	Cheyenne Cason	5/27/2021 8:35:30	AM	(lead	
Reviewed By:					
Chain of Custo	<u>ody</u>				
1. Is Chain of Cus	tody complete?		Yes 🗸	No 🗌	Not Present
2. How was the sa	ample delivered?		Courier		
Log In					
3. Was an attempt	t made to cool the samp	les?	Yes 🗸	No 🗌	NA 🗌
4. Were all sample	es received at a tempera	ture of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆
5. Sample(s) in pro	oper container(s)?		Yes 🗸	No 🗌	
3. Sufficient sampl	e volume for indicated te	est(s)?	Yes 🗸	No 🗌	
7. Are samples (ex	cept VOA and ONG) pro	pperly preserved?	Yes 🗸	No 🗌	
Was preservativ	e added to bottles?		Yes	No 🗸	NA 🗌
9. Received at leas	st 1 vial with headspace	<1/4" for AQ VOA?	Yes	No 🗆	NA 🗹
0. Were any samp	le containers received b	roken?	Yes	No 🗸	# of preserved
	match bottle labels? cies on chain of custody		Yes 🗸	No 🗆	bottles checked for pH: (<2 or >12 unless noted
2. Are matrices cor	rectly identified on Chair	of Custody?	Yes 🗸	No 🗌	Adjusted?
3. Is it clear what a	nalyses were requested	?	Yes 🗸	No 🗌	
	times able to be met? tomer for authorization.)		Yes 🗹	No 🗌	Checked by: SPA 5.2
pecial Handlin	g (if applicable)				
5. Was client notifi	ied of all discrepancies v	with this order?	Yes	No 🗌	NA 🔽
Person No	otified:	Date:	ſ		
By Whom		Via:	eMail	Phone Fax	☐ In Person
Regarding	ı:				
Client Inst	ructions:				
16. Additional rema	arks:				
7. Cooler Informa	ation Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By	
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0.7

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	If necessary, s	samples subm	If necessary, samples submitted to Hall Environmental may be subconfracted to other accredit	pe subcon	fracted to other as	ccredited laboratoris	ed laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	is possibili	y. Any s	ub-contr	acted dat	a will be o	dearly no	otated or	n the a	nalytical r	report.	161

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Released to Imaging: 4/18/2022 9:56:38 AM



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

August 04, 2021

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX

RE: Jackson B 17 Flowline Area 1 OrderNo.: 2107C48

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/24/2021 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2107C48

Date Reported: 8/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: Al-1 25'

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 7/22/2021 2:10:00 PM

 Lab ID:
 2107C48-001
 Matrix: SOIL
 Received Date: 7/24/2021 7:48:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	180	60	mg/Kg	20	7/30/2021 4:08:09 AM	61662
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	24	9.8	mg/Kg	1	7/27/2021 4:49:48 PM	61572
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/27/2021 4:49:48 PM	61572
Surr: DNOP	123	70-130	%Rec	1	7/27/2021 4:49:48 PM	61572
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/29/2021 10:55:09 AM	61570
Surr: BFB	107	70-130	%Rec	1	7/29/2021 10:55:09 AM	61570
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	7/29/2021 10:55:09 AM	61570
Toluene	ND	0.049	mg/Kg	1	7/29/2021 10:55:09 AM	61570
Ethylbenzene	ND	0.049	mg/Kg	1	7/29/2021 10:55:09 AM	61570
Xylenes, Total	ND	0.098	mg/Kg	1	7/29/2021 10:55:09 AM	61570
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	7/29/2021 10:55:09 AM	61570

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

Qualifiers:

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

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

Page 1 of 7

Analytical Report

Lab Order **2107C48**Date Reported: **8/4/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: Al-1 30'

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 7/22/2021 2:20:00 PM

 Lab ID:
 2107C48-002
 Matrix: SOIL
 Received Date: 7/24/2021 7:48:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	84	61	mg/Kg	20	7/30/2021 4:20:33 AM	61662
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/27/2021 4:59:36 PM	61572
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/27/2021 4:59:36 PM	61572
Surr: DNOP	109	70-130	%Rec	1	7/27/2021 4:59:36 PM	61572
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/29/2021 11:18:40 AM	61570
Surr: BFB	108	70-130	%Rec	1	7/29/2021 11:18:40 AM	61570
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	7/29/2021 11:18:40 AM	61570
Toluene	ND	0.047	mg/Kg	1	7/29/2021 11:18:40 AM	61570
Ethylbenzene	ND	0.047	mg/Kg	1	7/29/2021 11:18:40 AM	61570
Xylenes, Total	ND	0.095	mg/Kg	1	7/29/2021 11:18:40 AM	61570
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	7/29/2021 11:18:40 AM	61570

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

Qualifiers:

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

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

Page 2 of 7

Analytical Report Lab Order 2107C48

Date Reported: 8/4/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: Al-1 35'

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 7/22/2021 2:40:00 PM

 Lab ID:
 2107C48-003
 Matrix: SOIL
 Received Date: 7/24/2021 7:48:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	7/30/2021 4:32:58 AM	61662
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/27/2021 5:09:22 PM	61572
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/27/2021 5:09:22 PM	61572
Surr: DNOP	122	70-130	%Rec	1	7/27/2021 5:09:22 PM	61572
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Surr: BFB	107	70-130	%Rec	1	7/29/2021 11:42:09 AM	61570
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Toluene	ND	0.049	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Ethylbenzene	ND	0.049	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Xylenes, Total	ND	0.099	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	7/29/2021 11:42:09 AM	61570

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107C48**

04-Aug-21

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: MB-61662 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61662 RunNo: 80187

Prep Date: 7/29/2021 Analysis Date: 7/30/2021 SeqNo: 2823381 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-61662 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61662 RunNo: 80187

Prep Date: 7/29/2021 Analysis Date: 7/30/2021 SeqNo: 2823382 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.6 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

04-Aug-21

2107C48

WO#:

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: MB-61572 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 61572 RunNo: 80098

Prep Date: 7/26/2021 Analysis Date: 7/27/2021 SeqNo: 2820635 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 12 10.00 123 70 130

Sample ID: LCS-61572 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 61572 RunNo: 80098

Prep Date: 7/26/2021 Analysis Date: 7/27/2021 SeqNo: 2820636 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 68.9 53 50.00 106 141 Surr: DNOP 4.9 5.000 97.3 70 130

Sample ID: MB-61656 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 61656 RunNo: 80208

Prep Date: 7/29/2021 Analysis Date: 7/30/2021 SeqNo: 2825038 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP 10 10.00 102 70 130

Sample ID: LCS-61656 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 61656 RunNo: 80208

Prep Date: 7/29/2021 Analysis Date: 7/30/2021 SeqNo: 2825039 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 5.0 5.000 100 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107C48**

04-Aug-21

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: Ics-61570 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61570 RunNo: 80156

Prep Date: 7/26/2021 Analysis Date: 7/28/2021 SeqNo: 2822398 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 101
 78.6
 131

 Surr: BFB
 1200
 1000
 120
 70
 130

Sample ID: mb-61570 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 61570 RunNo: 80156

Prep Date: 7/26/2021 Analysis Date: 7/29/2021 SeqNo: 2822400 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 106 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2107C48**

04-Aug-21

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: LCS-61570	SampT	ype: LC	S	Test	tCode: El	PA Method	d 8021B: Volatiles					
Client ID: LCSS	Batcl	n ID: 61	570	R	RunNo: 8	0156						
Prep Date: 7/26/2021	Analysis D	oate: 7/ 2	28/2021	S	SeqNo: 2	822450	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.89	0.025	1.000	0	88.8	80	120					
Toluene	0.91	0.050	1.000	0	91.1	80	120					
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120					
Xylenes, Total	2.8	0.10	3.000	0	91.7	80	120					
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130					

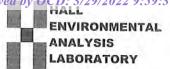
Sample ID: mb-61570	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	od 8021B: Volatiles						
Client ID: PBS	Batch	ID: 61 :	570	F	RunNo: 8	0156							
Prep Date: 7/26/2021	e: 7/26/2021 Analysis Date: 7/29/2021		SeqNo: 2822452			SeqNo: 2822452 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: GHD Midland	Work Order N	umber: 2107C48		RcptNo: 1
Received By: Cheyenne Case	on 7/24/2021 7:48:	00 AM	Chul	
Completed By: Cheyenne Case	on 7/24/2021 8:16:	30 AM	Charl	
Reviewed By: SPA 7	15.45.			
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 th	e samples?	Yes 🗸	No 🗌	NA 🗆
4. Were all samples received at a to	emperature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆
5. Sample(s) in proper container(s)	?	Yes 🗸	No 🗌	
6. Sufficient sample volume for indi	cated test(s)?	Yes 🔽	No 🗌	
7. Are samples (except VOA and O	NG) properly preserved?	Yes 🗸	No 🗌	
8. Was preservative added to bottle	s?	Yes	No 🗸	NA 🗆
9. Received at least 1 vial with head	Ispace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹
10. Were any sample containers rec	eived broken?	Yes	No 🗸	# of preserved
11. Does paperwork match bottle lab		Yes 🗸	No 🗆	bottles checked for pH:
(Note discrepancies on chain of c				(<2 or >12 unless noted)
12. Are matrices correctly identified of 13. Is it clear what analyses were required.		Yes 🗸	No 🔲	Adjusted?
14. Were all holding times able to be		Yes ✓ Yes ✓	No 🗌	Checked by: C 7/2///
(If no, notify customer for authorize		Yes 🗸	No 🗔	/ Checked by: Cu 7/24/4
Special Handling (if applicat	ole)			
15. Was client notified of all discrepa		Yes	No 🗌	NA 🗹
Person Notified:	Da	ite:		
By Whom:	Via		Phone Fax	☐ In Person
Regarding:				
Client Instructions:				
16. Additional remarks:				
17. Cooler Information Cooler No Temp °C Con 1 2.4 Good	dition Seal Intact Seal No	Seal Date	Signed By	



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

February 22, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX

RE: Jackson B 17 Flowline Area 1 OrderNo.: 2202488

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 22 sample(s) on 2/10/2022 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

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-1

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:35:00 PM

 Lab ID:
 2202488-001
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	2/16/2022 3:26:23 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst	: SB	
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	2/16/2022 9:30:54 AM	65497
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	2/16/2022 9:30:54 AM	65497
Surr: DNOP	96.9	51.1-141	%Rec	1	2/16/2022 9:30:54 AM	65497
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/12/2022 4:20:00 AM	65486
Surr: BFB	95.2	70-130	%Rec	1	2/12/2022 4:20:00 AM	65486
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	2/12/2022 4:20:00 AM	65486
Toluene	ND	0.049	mg/Kg	1	2/12/2022 4:20:00 AM	65486
Ethylbenzene	ND	0.049	mg/Kg	1	2/12/2022 4:20:00 AM	65486
Xylenes, Total	ND	0.099	mg/Kg	1	2/12/2022 4:20:00 AM	65486
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	2/12/2022 4:20:00 AM	65486

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

Qualifiers:

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

Page 1 of 29

Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-2

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:00:00 AM

 Lab ID:
 2202488-002
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	2/16/2022 3:38:48 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/16/2022 9:41:27 AM	65497
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/16/2022 9:41:27 AM	65497
Surr: DNOP	88.6	51.1-141	%Rec	1	2/16/2022 9:41:27 AM	65497
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/12/2022 4:40:00 AM	65486
Surr: BFB	93.6	70-130	%Rec	1	2/12/2022 4:40:00 AM	65486
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	2/12/2022 4:40:00 AM	65486
Toluene	ND	0.047	mg/Kg	1	2/12/2022 4:40:00 AM	65486
Ethylbenzene	ND	0.047	mg/Kg	1	2/12/2022 4:40:00 AM	65486
Xylenes, Total	ND	0.095	mg/Kg	1	2/12/2022 4:40:00 AM	65486
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	2/12/2022 4:40:00 AM	65486

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

Qualifiers:

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

Page 2 of 29

Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-3

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:05:00 AM

 Lab ID:
 2202488-003
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: ЈМТ
Chloride	1400	61	mg/Kg	20	2/16/2022 3:51:13 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/16/2022 9:52:04 AM	65497
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/16/2022 9:52:04 AM	65497
Surr: DNOP	91.2	51.1-141	%Rec	1	2/16/2022 9:52:04 AM	65497
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/12/2022 4:59:00 AM	65486
Surr: BFB	95.2	70-130	%Rec	1	2/12/2022 4:59:00 AM	65486
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	0.024	mg/Kg	1	2/12/2022 4:59:00 AM	65486
Toluene	ND	0.049	mg/Kg	1	2/12/2022 4:59:00 AM	65486
Ethylbenzene	ND	0.049	mg/Kg	1	2/12/2022 4:59:00 AM	65486
Xylenes, Total	ND	0.098	mg/Kg	1	2/12/2022 4:59:00 AM	65486
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	2/12/2022 4:59:00 AM	65486

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

Qualifiers:

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

Page 3 of 29

Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-4

Project: Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:10:00 AM

 Lab ID: 2202488-004
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: JMT
Chloride	ND	60	mg/Kg	20	2/16/2022 4:03:37 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/16/2022 10:02:58 AM	1 65497
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/16/2022 10:02:58 AM	65497
Surr: DNOP	97.4	51.1-141	%Rec	1	2/16/2022 10:02:58 AM	1 65497
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/12/2022 5:19:00 AM	65486
Surr: BFB	94.9	70-130	%Rec	1	2/12/2022 5:19:00 AM	65486
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	2/12/2022 5:19:00 AM	65486
Toluene	ND	0.047	mg/Kg	1	2/12/2022 5:19:00 AM	65486
Ethylbenzene	ND	0.047	mg/Kg	1	2/12/2022 5:19:00 AM	65486
Xylenes, Total	ND	0.094	mg/Kg	1	2/12/2022 5:19:00 AM	65486
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	2/12/2022 5:19:00 AM	65486

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

Qualifiers:

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

Page 4 of 29

Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-5

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:15:00 AM

 Lab ID:
 2202488-005
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: ЈМТ
Chloride	74	60	mg/Kg	20	2/16/2022 4:16:01 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/16/2022 10:13:36 AM	65497
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/16/2022 10:13:36 AM	65497
Surr: DNOP	91.6	51.1-141	%Rec	1	2/16/2022 10:13:36 AM	65497
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/12/2022 5:39:00 AM	65486
Surr: BFB	93.2	70-130	%Rec	1	2/12/2022 5:39:00 AM	65486
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	0.024	mg/Kg	1	2/12/2022 5:39:00 AM	65486
Toluene	ND	0.049	mg/Kg	1	2/12/2022 5:39:00 AM	65486
Ethylbenzene	ND	0.049	mg/Kg	1	2/12/2022 5:39:00 AM	65486
Xylenes, Total	ND	0.098	mg/Kg	1	2/12/2022 5:39:00 AM	65486
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	2/12/2022 5:39:00 AM	65486

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-6

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:40:00 PM

 Lab ID:
 2202488-006
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	2/16/2022 4:28:26 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/16/2022 12:52:33 PM	65497
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/16/2022 12:52:33 PM	65497
Surr: DNOP	106	51.1-141	%Rec	1	2/16/2022 12:52:33 PM	65497
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/12/2022 5:58:00 AM	65486
Surr: BFB	99.9	70-130	%Rec	1	2/12/2022 5:58:00 AM	65486
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	2/12/2022 5:58:00 AM	65486
Toluene	ND	0.048	mg/Kg	1	2/12/2022 5:58:00 AM	65486
Ethylbenzene	ND	0.048	mg/Kg	1	2/12/2022 5:58:00 AM	65486
Xylenes, Total	ND	0.096	mg/Kg	1	2/12/2022 5:58:00 AM	65486
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	2/12/2022 5:58:00 AM	65486

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-7

Project: Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:45:00 PM

 Lab ID: 2202488-007
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	93	60	mg/Kg	20	2/16/2022 5:05:40 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	12	9.4	mg/Kg	1	2/16/2022 1:16:47 PM	65497
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/16/2022 1:16:47 PM	65497
Surr: DNOP	103	51.1-141	%Rec	1	2/16/2022 1:16:47 PM	65497
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/12/2022 6:18:00 AM	65486
Surr: BFB	92.0	70-130	%Rec	1	2/12/2022 6:18:00 AM	65486
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	2/12/2022 6:18:00 AM	65486
Toluene	ND	0.047	mg/Kg	1	2/12/2022 6:18:00 AM	65486
Ethylbenzene	ND	0.047	mg/Kg	1	2/12/2022 6:18:00 AM	65486
Xylenes, Total	ND	0.095	mg/Kg	1	2/12/2022 6:18:00 AM	65486
Surr: 4-Bromofluorobenzene	95.6	70-130	%Rec	1	2/12/2022 6:18:00 AM	65486

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-8

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:45:00 AM

 Lab ID:
 2202488-008
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	750	59	mg/Kg	20	2/16/2022 5:18:04 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: SB
Diesel Range Organics (DRO)	310	50	mg/Kg	5	2/16/2022 12:04:18 PM	65497
Motor Oil Range Organics (MRO)	270	250	mg/Kg	5	2/16/2022 12:04:18 PM	65497
Surr: DNOP	124	51.1-141	%Rec	5	2/16/2022 12:04:18 PM	65497
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/12/2022 6:37:00 AM	65486
Surr: BFB	96.9	70-130	%Rec	1	2/12/2022 6:37:00 AM	65486
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	2/12/2022 6:37:00 AM	65486
Toluene	ND	0.047	mg/Kg	1	2/12/2022 6:37:00 AM	65486
Ethylbenzene	ND	0.047	mg/Kg	1	2/12/2022 6:37:00 AM	65486
Xylenes, Total	ND	0.095	mg/Kg	1	2/12/2022 6:37:00 AM	65486
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	2/12/2022 6:37:00 AM	65486

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-9

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:50:00 AM

 Lab ID:
 2202488-009
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	210	60	mg/Kg	20	2/16/2022 5:30:29 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/16/2022 10:56:20 AM	65497
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/16/2022 10:56:20 AM	65497
Surr: DNOP	105	51.1-141	%Rec	1	2/16/2022 10:56:20 AM	65497
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/12/2022 6:57:00 AM	65486
Surr: BFB	97.5	70-130	%Rec	1	2/12/2022 6:57:00 AM	65486
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	2/12/2022 6:57:00 AM	65486
Toluene	ND	0.049	mg/Kg	1	2/12/2022 6:57:00 AM	65486
Ethylbenzene	ND	0.049	mg/Kg	1	2/12/2022 6:57:00 AM	65486
Xylenes, Total	ND	0.097	mg/Kg	1	2/12/2022 6:57:00 AM	65486
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	2/12/2022 6:57:00 AM	65486

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-10

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:55:00 AM

 Lab ID:
 2202488-010
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	2200	150	mg/Kg	50	2/17/2022 10:50:53 AM	65573
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	13	9.2	mg/Kg	1	2/16/2022 3:31:39 AM	65517
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/16/2022 3:31:39 AM	65517
Surr: DNOP	100	51.1-141	%Rec	1	2/16/2022 3:31:39 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/14/2022 9:38:22 AM	65499
Surr: BFB	109	70-130	%Rec	1	2/14/2022 9:38:22 AM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	2/14/2022 9:38:22 AM	65499
Toluene	ND	0.049	mg/Kg	1	2/14/2022 9:38:22 AM	65499
Ethylbenzene	ND	0.049	mg/Kg	1	2/14/2022 9:38:22 AM	65499
Xylenes, Total	ND	0.098	mg/Kg	1	2/14/2022 9:38:22 AM	65499
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	2/14/2022 9:38:22 AM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-11

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:00:00 PM

 Lab ID:
 2202488-011
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	1900	60		mg/Kg	20	2/16/2022 3:31:22 PM	65586
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	3600	480		mg/Kg	50	2/16/2022 4:13:16 AM	65517
Motor Oil Range Organics (MRO)	2700	2400		mg/Kg	50	2/16/2022 4:13:16 AM	65517
Surr: DNOP	0	51.1-141	S	%Rec	50	2/16/2022 4:13:16 AM	65517
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	2/14/2022 10:48:20 AM	65499
Surr: BFB	129	70-130		%Rec	5	2/14/2022 10:48:20 AM	65499
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	2/14/2022 10:48:20 AM	65499
Toluene	ND	0.25		mg/Kg	5	2/14/2022 10:48:20 AM	65499
Ethylbenzene	ND	0.25		mg/Kg	5	2/14/2022 10:48:20 AM	65499
Xylenes, Total	ND	0.49		mg/Kg	5	2/14/2022 10:48:20 AM	65499
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	5	2/14/2022 10:48:20 AM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-1

Project: Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:20:00 AM

 Lab ID: 2202488-012
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	2100	61	mg/Kg	20	2/16/2022 3:43:46 PM	65586
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	60	9.3	mg/Kg	1	2/16/2022 4:23:36 AM	65517
Motor Oil Range Organics (MRO)	130	47	mg/Kg	1	2/16/2022 4:23:36 AM	65517
Surr: DNOP	117	51.1-141	%Rec	1	2/16/2022 4:23:36 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/14/2022 11:59:00 AM	65499
Surr: BFB	113	70-130	%Rec	1	2/14/2022 11:59:00 AM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	2/14/2022 11:59:00 AM	65499
Toluene	ND	0.047	mg/Kg	1	2/14/2022 11:59:00 AM	65499
Ethylbenzene	ND	0.047	mg/Kg	1	2/14/2022 11:59:00 AM	65499
Xylenes, Total	ND	0.093	mg/Kg	1	2/14/2022 11:59:00 AM	65499
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	2/14/2022 11:59:00 AM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-2

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:25:00 AM

 Lab ID:
 2202488-013
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	2200	60	mg/Kg	20	2/16/2022 3:56:10 PM	65586
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	250	9.6	mg/Kg	1	2/16/2022 4:44:20 AM	65517
Motor Oil Range Organics (MRO)	150	48	mg/Kg	1	2/16/2022 4:44:20 AM	65517
Surr: DNOP	96.3	51.1-141	%Rec	1	2/16/2022 4:44:20 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/14/2022 12:22:51 PM	65499
Surr: BFB	114	70-130	%Rec	1	2/14/2022 12:22:51 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/14/2022 12:22:51 PM	65499
Toluene	ND	0.049	mg/Kg	1	2/14/2022 12:22:51 PM	65499
Ethylbenzene	ND	0.049	mg/Kg	1	2/14/2022 12:22:51 PM	65499
Xylenes, Total	ND	0.098	mg/Kg	1	2/14/2022 12:22:51 PM	65499
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	2/14/2022 12:22:51 PM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-3

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:30:00 AM

 Lab ID:
 2202488-014
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	3600	150	mg/Kg	50	2/16/2022 4:08:35 PM	65586
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/16/2022 5:05:05 AM	65517
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/16/2022 5:05:05 AM	65517
Surr: DNOP	102	51.1-141	%Rec	1	2/16/2022 5:05:05 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/14/2022 12:46:41 PM	65499
Surr: BFB	119	70-130	%Rec	1	2/14/2022 12:46:41 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	2/14/2022 12:46:41 PM	65499
Toluene	ND	0.050	mg/Kg	1	2/14/2022 12:46:41 PM	65499
Ethylbenzene	ND	0.050	mg/Kg	1	2/14/2022 12:46:41 PM	65499
Xylenes, Total	ND	0.099	mg/Kg	1	2/14/2022 12:46:41 PM	65499
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	2/14/2022 12:46:41 PM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-4

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:35:00 AM

 Lab ID:
 2202488-015
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	880	60	mg/Kg	20	2/16/2022 4:20:59 PM	65586
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	14	9.7	mg/Kg	1	2/16/2022 5:15:29 AM	65517
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/16/2022 5:15:29 AM	65517
Surr: DNOP	89.5	51.1-141	%Rec	1	2/16/2022 5:15:29 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/14/2022 1:10:34 PM	65499
Surr: BFB	118	70-130	%Rec	1	2/14/2022 1:10:34 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/14/2022 1:10:34 PM	65499
Toluene	ND	0.048	mg/Kg	1	2/14/2022 1:10:34 PM	65499
Ethylbenzene	ND	0.048	mg/Kg	1	2/14/2022 1:10:34 PM	65499
Xylenes, Total	ND	0.097	mg/Kg	1	2/14/2022 1:10:34 PM	65499
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	2/14/2022 1:10:34 PM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-5

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:30:00 PM

 Lab ID:
 2202488-016
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1200	60		mg/Kg	20	2/17/2022 11:28:06 AM	65610
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	SB
Diesel Range Organics (DRO)	790	99		mg/Kg	10	2/16/2022 5:25:54 AM	65517
Motor Oil Range Organics (MRO)	580	500		mg/Kg	10	2/16/2022 5:25:54 AM	65517
Surr: DNOP	0	51.1-141	S	%Rec	10	2/16/2022 5:25:54 AM	65517
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/14/2022 1:34:03 PM	65499
Surr: BFB	119	70-130		%Rec	1	2/14/2022 1:34:03 PM	65499
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	2/14/2022 1:34:03 PM	65499
Toluene	ND	0.049		mg/Kg	1	2/14/2022 1:34:03 PM	65499
Ethylbenzene	ND	0.049		mg/Kg	1	2/14/2022 1:34:03 PM	65499
Xylenes, Total	ND	0.099		mg/Kg	1	2/14/2022 1:34:03 PM	65499
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	2/14/2022 1:34:03 PM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-6

Project: Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 11:40:00 AM

 Lab ID: 2202488-017
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	310	60	mg/Kg	20	2/17/2022 11:40:31 AM	65610
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/16/2022 5:36:25 AM	65517
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/16/2022 5:36:25 AM	65517
Surr: DNOP	82.3	51.1-141	%Rec	1	2/16/2022 5:36:25 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/14/2022 1:57:46 PM	65499
Surr: BFB	116	70-130	%Rec	1	2/14/2022 1:57:46 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	2/14/2022 1:57:46 PM	65499
Toluene	ND	0.047	mg/Kg	1	2/14/2022 1:57:46 PM	65499
Ethylbenzene	ND	0.047	mg/Kg	1	2/14/2022 1:57:46 PM	65499
Xylenes, Total	ND	0.093	mg/Kg	1	2/14/2022 1:57:46 PM	65499
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	2/14/2022 1:57:46 PM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-7

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:20:00 PM

 Lab ID:
 2202488-018
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	1100	60		mg/Kg	20	2/17/2022 11:52:55 AM	65610
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	SB
Diesel Range Organics (DRO)	1100	96		mg/Kg	10	2/16/2022 5:47:00 AM	65517
Motor Oil Range Organics (MRO)	590	480		mg/Kg	10	2/16/2022 5:47:00 AM	65517
Surr: DNOP	0	51.1-141	S	%Rec	10	2/16/2022 5:47:00 AM	65517
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/14/2022 2:21:28 PM	65499
Surr: BFB	126	70-130		%Rec	1	2/14/2022 2:21:28 PM	65499
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	2/14/2022 2:21:28 PM	65499
Toluene	ND	0.050		mg/Kg	1	2/14/2022 2:21:28 PM	65499
Ethylbenzene	ND	0.050		mg/Kg	1	2/14/2022 2:21:28 PM	65499
Xylenes, Total	ND	0.10		mg/Kg	1	2/14/2022 2:21:28 PM	65499
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	2/14/2022 2:21:28 PM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-8

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:25:00 PM

 Lab ID:
 2202488-019
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Chloride	2100	150		mg/Kg	50	2/17/2022 1:19:45 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: SB
Diesel Range Organics (DRO)	2800	180		mg/Kg	20	2/16/2022 5:57:39 AM	65517
Motor Oil Range Organics (MRO)	1600	920		mg/Kg	20	2/16/2022 5:57:39 AM	65517
Surr: DNOP	0	51.1-141	S	%Rec	20	2/16/2022 5:57:39 AM	65517
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	74	25		mg/Kg	5	2/14/2022 2:45:10 PM	65499
Surr: BFB	268	70-130	S	%Rec	5	2/14/2022 2:45:10 PM	65499
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.12		mg/Kg	5	2/14/2022 2:45:10 PM	65499
Toluene	ND	0.25		mg/Kg	5	2/14/2022 2:45:10 PM	65499
Ethylbenzene	0.31	0.25		mg/Kg	5	2/14/2022 2:45:10 PM	65499
Xylenes, Total	1.2	0.49		mg/Kg	5	2/14/2022 2:45:10 PM	65499
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	5	2/14/2022 2:45:10 PM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-9

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:05:00 PM

 Lab ID:
 2202488-020
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	350	60	mg/Kg	20	2/17/2022 12:17:43 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/16/2022 6:08:19 AM	65517
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/16/2022 6:08:19 AM	65517
Surr: DNOP	78.7	51.1-141	%Rec	1	2/16/2022 6:08:19 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/14/2022 3:55:56 PM	65499
Surr: BFB	116	70-130	%Rec	1	2/14/2022 3:55:56 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	2/14/2022 3:55:56 PM	65499
Toluene	ND	0.047	mg/Kg	1	2/14/2022 3:55:56 PM	65499
Ethylbenzene	ND	0.047	mg/Kg	1	2/14/2022 3:55:56 PM	65499
Xylenes, Total	ND	0.094	mg/Kg	1	2/14/2022 3:55:56 PM	65499
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	2/14/2022 3:55:56 PM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-10

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:10:00 PM

 Lab ID:
 2202488-021
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	2000	60	mg/Kg	20	2/17/2022 12:30:08 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	17	9.4	mg/Kg	1	2/16/2022 6:19:00 AM	65517
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/16/2022 6:19:00 AM	65517
Surr: DNOP	99.4	51.1-141	%Rec	1	2/16/2022 6:19:00 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/14/2022 4:19:37 PM	65499
Surr: BFB	114	70-130	%Rec	1	2/14/2022 4:19:37 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/14/2022 4:19:37 PM	65499
Toluene	ND	0.049	mg/Kg	1	2/14/2022 4:19:37 PM	65499
Ethylbenzene	ND	0.049	mg/Kg	1	2/14/2022 4:19:37 PM	65499
Xylenes, Total	ND	0.097	mg/Kg	1	2/14/2022 4:19:37 PM	65499
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	2/14/2022 4:19:37 PM	65499

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

Qualifiers:

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

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Date Reported: 2/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-11

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/8/2022 12:15:00 PM

 Lab ID:
 2202488-022
 Matrix: SOIL
 Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	2800	150	mg/Kg	50	2/17/2022 1:32:09 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/16/2022 6:29:51 AM	65517
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/16/2022 6:29:51 AM	65517
Surr: DNOP	95.4	51.1-141	%Rec	1	2/16/2022 6:29:51 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/14/2022 4:43:25 PM	65499
Surr: BFB	115	70-130	%Rec	1	2/14/2022 4:43:25 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	2/14/2022 4:43:25 PM	65499
Toluene	ND	0.046	mg/Kg	1	2/14/2022 4:43:25 PM	65499
Ethylbenzene	ND	0.046	mg/Kg	1	2/14/2022 4:43:25 PM	65499
Xylenes, Total	ND	0.092	mg/Kg	1	2/14/2022 4:43:25 PM	65499
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	2/14/2022 4:43:25 PM	65499

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2202488 22-Feb-22**

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: LCS-65573 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65573 RunNo: 85831

Prep Date: 2/15/2022 Analysis Date: 2/15/2022 SeqNo: 3023545 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-65610 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65610 RunNo: 85918

Prep Date: 2/17/2022 Analysis Date: 2/17/2022 SeqNo: 3025704 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-65610 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65610 RunNo: 85918

Prep Date: 2/17/2022 Analysis Date: 2/17/2022 SeqNo: 3025705 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.7 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2202488**

22-Feb-22

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: MB-65497 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 65497 RunNo: 85809

Prep Date: 2/11/2022 Analysis Date: 2/14/2022 SeqNo: 3022507 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO)

ND

50

Surr: DNOP 9.4 10.00 94.4 51.1 141

Sample ID: LCS-65497 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 65497 RunNo: 85809

Prep Date: 2/11/2022 Analysis Date: 2/14/2022 SeqNo: 3022508 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 135 45 50.00 89.3 68.9 Surr: DNOP 3.9 5.000 78.1 51.1 141

Sample ID: 2202488-010AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **SW-10** Batch ID: **65517** RunNo: **85857**

Prep Date: 2/14/2022 Analysis Date: 2/16/2022 SeqNo: 3023395 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 49 9.2 12.55 39.3 46.21 79.3 155

Surr: DNOP 3.9 4.621 12.33 79.3 59.3 133

Sample ID: 2202488-010AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **SW-10** Batch ID: **65517** RunNo: **85857**

Prep Date: 2/14/2022 Analysis Date: 2/16/2022 SeqNo: 3023396 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 56 9.5 47.30 12.55 92.3 39.3 155 13.3 23.4 Surr: DNOP 4.730 85.7 51.1 141 0 0 4.1

Sample ID: LCS-65517 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 65517 RunNo: 85859

Prep Date: 2/14/2022 Analysis Date: 2/15/2022 SeqNo: 3023640 Units: mg/Kg

%RPD Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit **RPDLimit** LowLimit Qual Diesel Range Organics (DRO) 81.9 41 10 50.00 68.9 135

Surr: DNOP 4.0 5.000 79.3 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

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Hall Environmental Analysis Laboratory, Inc.

2202488 22-Feb-22

WO#:

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: MB-65517 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 65517 RunNo: 85859

Prep Date: 2/14/2022 Analysis Date: 2/15/2022 SeqNo: 3023642 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.9 10.00 99.1 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2202488**

22-Feb-22

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: Ics-65486 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 65486 RunNo: 85799

Prep Date: 2/10/2022 Analysis Date: 2/11/2022 SeqNo: 3021130 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) 27 5.0 25.00 Λ 107 78.6 131 Surr: BFB 1100 1000 111 130

Sample ID: mb-65486 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **65486** RunNo: **85799**

Prep Date: 2/10/2022 Analysis Date: 2/11/2022 SeqNo: 3021131 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 960 1000 96.4 70 130

Sample ID: mb-65499 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 65499 RunNo: 85817

Prep Date: 2/11/2022 Analysis Date: 2/14/2022 SeqNo: 3021837 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
 114
 70
 130

Sample ID: LCS-65499 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 65499 RunNo: 85817

Prep Date: 2/11/2022 Analysis Date: 2/14/2022 SeqNo: 3021838 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 25 5.0 0 102 25.00 78.6 131

 Surr: BFB
 1200
 1000
 123
 70
 130

Sample ID: 2202488-010ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW-10** Batch ID: **65499** RunNo: **85817**

Prep Date: **2/11/2022** Analysis Date: **2/14/2022** SeqNo: **3021840** Units: **mg/Kg**

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 0 70 4.9 24.73 96.4 130 Surr: BFB 1200 989.1 122 70 130

Sample ID: 2202488-010amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW-10** Batch ID: **65499** RunNo: **85817**

Prep Date: 2/11/2022 Analysis Date: 2/14/2022 SeqNo: 3021841 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2202488 22-Feb-22

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: 2202488-010amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW-10** Batch ID: **65499** RunNo: **85817**

Prep Date: 2/11/2022 Analysis Date: 2/14/2022 SeqNo: 3021841 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result 0 20 Gasoline Range Organics (GRO) 24 4.9 24.63 98.6 70 130 1.94 Surr: BFB 1200 985.2 122 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2202488 22-Feb-22**

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: Ics-65486	SampT	Гуре: LC	ype: LCS TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batcl	h ID: 65 4	486	F						
Prep Date: 2/10/2022	Analysis D	Date: 2/	11/2022	5	SeqNo: 3	021256	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-65486	Sampl	ype: ME	BLK	I es	tCode: El	PA Method	8021B: Volat	iles			
Client ID: PBS	Batch	n ID: 65 4	486	F	RunNo: 8	5799					
Prep Date: 2/10/2022	Analysis D	ate: 2/	11/2022	8	SeqNo: 3	021257	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	70	130				

Sample ID: mb-65499	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 65 4	499	F	RunNo: 8	5817				
Prep Date: 2/11/2022	Analysis D	oate: 2/	14/2022	S	SeqNo: 3	021884	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: Ics-65499	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	1D: 65 4	199	F	RunNo: 8	5817				
Prep Date: 2/11/2022	Analysis D	ate: 2/	14/2022	S	SeqNo: 30	021885	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.6	80	120			
Toluene	0.97	0.050	1.000	0	97.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	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
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2202488**

22-Feb-22

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: 2202488-011ams	SampT	уре: МS	3	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: SW-11	Batch	n ID: 65 4	499	F	RunNo: 8	5817				
Prep Date: 2/11/2022	Analysis D	Date: 2/	14/2022	8	SeqNo: 3	021888	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.12	0.9852	0	76.9	80	120			S
Toluene	0.80	0.25	0.9852	0	81.4	80	120			
Ethylbenzene	0.82	0.25	0.9852	0.07136	75.8	80	120			S
Xylenes, Total	2.5	0.49	2.956	0.2923	73.8	80	120			S
Surr: 4-Bromofluorobenzene	5.3		4.926		108	70	130			

Sample ID: 2202488-011ams	d SampT	уре: М\$	SD	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID: SW-11	Batch	n ID: 65	499	F	RunNo: 8	5817				
Prep Date: 2/11/2022	Analysis D	Date: 2/	14/2022	\$	SeqNo: 3	021889	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.12	0.9804	0	72.7	80	120	6.11	20	S
Toluene	0.75	0.25	0.9804	0	76.6	80	120	6.57	20	S
Ethylbenzene	0.75	0.25	0.9804	0.07136	69.5	80	120	8.38	20	S
Xylenes, Total	2.3	0.49	2.941	0.2923	68.1	80	120	7.44	20	S
Surr: 4-Bromofluorobenzene	5.4		4.902		110	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: GHD Midland	Work Order Nur	mber: 220	2488		Ro	cptNo: 1	
Received By: Cheyenne Cason	2/10/2022 8:20:00) AM		Chenl			
Completed By: Tracy Casarrubias	2/10/2022 9:48:00) AM					
Reviewed By: 12 2/10/22							
Chain of Custody							
1. Is Chain of Custody complete?		Yes	V	No [Not Present		
2. How was the sample delivered?		Cou	ırier				
<u>Log In</u>							
3. Was an attempt made to cool the samples?		Yes	V	No [□ NA		
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	V	No [□ NA		
5. Sample(s) in proper container(s)?		Yes	V	No [
6. Sufficient sample volume for indicated test(s)?	Yes	V	No []		
7. Are samples (except VOA and ONG) properl	y preserved?	Yes	V	No []		
B. Was preservative added to bottles?		Yes		No 🗸	NA NA		
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	Yes		No [] NA	~	
0, Were any sample containers received broke	n?	Yes		No V			
					# of preserved bottles checked		/
Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No [for pH:		100 W
2. Are matrices correctly identified on Chain of	Custody?	Yes	V	No [<2 or >12 unless no	oted)
3 Is it clear what analyses were requested?			V	No [/		1
4. Were all holding times able to be met?			V	No [Checked t	y: KPG 2/	10
(If no, notify customer for authorization.) pecial Handling (if applicable)							
Was client notified of all discrepancies with t	his order?	Yes		No [] NA		
Person Notified:	Date			1/2 -	- 190		
By Whom:	Via:	☐ eMa	ail 🗆 I	Phone Fa	ax In Person		
Regarding:			· [_] '		I in reison		
Client Instructions:			-				
5. Additional remarks:							
7. Cooler Information Cooler No Temp °C Condition Se 1 2.1 Good Yes	al Intact Seal No	Seal Da	ate	Signed By			

	GHD	<u>ا</u>	Chain-or-Custody Record	DIIBOIX-IIIB I				H	ALL E	S	RO	Z	HALL ENVIRONMENTAL	_
	מוס			☑ Standard	A Rush	n 50au		A	ALY	SIS	LAE	SOR	ANALYSTS LABORATOR	>
				Project Name:				1	MANAN hallenvironmental com	vironm	2 letue			,
Mailing	Mailing Address:	i.i.		Jackson	B#17	Flowline Hica 1	4901	4901 Hawkins NE	. 0	Albuqueraue, NM 87109	aue. N	M 8710	•	
324 W	Main St	t. Suite 10	324 W. Main St. Suite 108, Artesia NM 88210	Project #:			Tel.	505-345-3975		Fax 5(505-345-4107	4107	Pg. 10+	+
Phone #:	#	(505)377-4218	7-4218	11228	2158				Ana		Request	7.00		8
email	email or Fax#:	Becky. F	Becky. Haskell@ghd.com	Project Manager:	ager:				ro		(tr			
QA/QC	QA/QC Package:		☐ Level 4 (Full Validation)	Becky Haskell	=		NM \ C		S '*Oc		ıəsqY/	00		
Accred	Accreditation:	D A2 C	Az Compliance	Sampler	Rocky Popiers	Jan Band	DRC	()			uəs	2		
□ NELAC	AC	Other.	i pilance	On Ice:	X Yes	No ON	1/08	p0	5			M		
	EDD (Type)			# of Coolers:			AÐ)	g po				6		
				Cooler Temp(induding CF):	(including CF): 2	1.5-0-1,	120	yetho	∍M 8	(AO\	- 1	アは	245	
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	2202488	X3T8 08:H9T 9 1808	EDB (A	RCRA CI, F, I	v) 09Z8	8270 (S Total C	<u> १५७</u>		
24/2/2	1235	5	5w-1	402. Jas/ 1	MA	100	メメ					メ		
-	1100	_	5 W-2		J	200	メメ			Ó		×		
_	1105		Sw-3			500	У X					×		
	1110		5W-4			600	X X					×		
	1115		5 m - S			500	X X					x		
	1240		SW-6			200	メメ					×		
	Sh21		5w-7			£00	X X					×		
	1145		5-MS			800	×					×		
	1150		5W-9			600	X X					×		
	1155		SW-10			040	X X					×		
	1200	/	11-MS			217	X X					X		
7	1120	>	BH-1	>	→	210	X X					X		
Date:	Time:	Relinquished by:	ned by:	Received by:	Via:	Vala. Time	Remark Tom.La	Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com: Along with	email: (d.com; Z	Chase_ach.Co	Settle@ mino@	eogres ghd.cor	Settle@eogresources.com; omino@ghd.com: Along with	om; with
Date:		Rel		Received by:	Via:	Date Time		Ë	becky naskell listed above. Direct Bill to EOG Chase Settle	o EOG	chase	Settle		
7/2			The Control of the said	CA COM	w chola	a m								



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

March 08, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX:

RE: Jackson B Flowline Area 1 OrderNo.: 2202C09

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/25/2022 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

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-3A

 Project:
 Jackson B Flowline Area 1
 Collection Date: 2/23/2022 9:00:00 AM

 Lab ID:
 2202C09-001
 Matrix: SOIL
 Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	ND	59	mg/Kg	20	3/3/2022 3:38:56 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/2/2022 2:11:22 PM	65852
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/2/2022 2:11:22 PM	65852
Surr: DNOP	73.9	51.1-141	%Rec	1	3/2/2022 2:11:22 PM	65852
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/28/2022 7:54:27 PM	65809
Surr: BFB	106	70-130	%Rec	1	2/28/2022 7:54:27 PM	65809
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	2/28/2022 7:54:27 PM	65809
Toluene	ND	0.047	mg/Kg	1	2/28/2022 7:54:27 PM	65809
Ethylbenzene	ND	0.047	mg/Kg	1	2/28/2022 7:54:27 PM	65809
Xylenes, Total	ND	0.095	mg/Kg	1	2/28/2022 7:54:27 PM	65809
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	1	2/28/2022 7:54:27 PM	65809

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

Qualifiers:

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

Page 1 of 11

Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-12

 Project:
 Jackson B Flowline Area 1
 Collection Date: 2/23/2022 9:05:00 AM

 Lab ID:
 2202C09-002
 Matrix: SOIL
 Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	2100	60	mg/Kg	20	3/3/2022 3:51:20 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/2/2022 2:22:41 PM	65852
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/2/2022 2:22:41 PM	65852
Surr: DNOP	74.1	51.1-141	%Rec	1	3/2/2022 2:22:41 PM	65852
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2022 8:18:00 PM	65809
Surr: BFB	103	70-130	%Rec	1	2/28/2022 8:18:00 PM	65809
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/28/2022 8:18:00 PM	65809
Toluene	ND	0.048	mg/Kg	1	2/28/2022 8:18:00 PM	65809
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2022 8:18:00 PM	65809
Xylenes, Total	ND	0.095	mg/Kg	1	2/28/2022 8:18:00 PM	65809
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	2/28/2022 8:18:00 PM	65809

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

Qualifiers:

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

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Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-12

 Project:
 Jackson B Flowline Area 1
 Collection Date: 2/23/2022 1:55:00 PM

 Lab ID:
 2202C09-003
 Matrix: SOIL
 Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1700	60	mg/Kg	20	3/3/2022 4:03:45 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/2/2022 2:58:08 PM	65852
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/2/2022 2:58:08 PM	65852
Surr: DNOP	105	51.1-141	%Rec	1	3/2/2022 2:58:08 PM	65852
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/28/2022 8:41:26 PM	65809
Surr: BFB	104	70-130	%Rec	1	2/28/2022 8:41:26 PM	65809
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	2/28/2022 8:41:26 PM	65809
Toluene	ND	0.050	mg/Kg	1	2/28/2022 8:41:26 PM	65809
Ethylbenzene	ND	0.050	mg/Kg	1	2/28/2022 8:41:26 PM	65809
Xylenes, Total	ND	0.099	mg/Kg	1	2/28/2022 8:41:26 PM	65809
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	2/28/2022 8:41:26 PM	65809

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

Qualifiers:

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

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Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-13

 Project:
 Jackson B Flowline Area 1
 Collection Date: 2/23/2022 2:00:00 PM

 Lab ID:
 2202C09-004
 Matrix: SOIL
 Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	350	59	mg/Kg	20	3/3/2022 4:16:10 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	8.1	mg/Kg	1	3/2/2022 3:09:25 PM	65852
Motor Oil Range Organics (MRO)	ND	40	mg/Kg	1	3/2/2022 3:09:25 PM	65852
Surr: DNOP	79.4	51.1-141	%Rec	1	3/2/2022 3:09:25 PM	65852
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/28/2022 11:02:00 PM	65809
Surr: BFB	106	70-130	%Rec	1	2/28/2022 11:02:00 PM	65809
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/28/2022 11:02:00 PM	65809
Toluene	ND	0.049	mg/Kg	1	2/28/2022 11:02:00 PM	65809
Ethylbenzene	ND	0.049	mg/Kg	1	2/28/2022 11:02:00 PM	65809
Xylenes, Total	ND	0.097	mg/Kg	1	2/28/2022 11:02:00 PM	65809
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	2/28/2022 11:02:00 PM	65809

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

Qualifiers:

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

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Date Reported: 3/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-14

 Project:
 Jackson B Flowline Area 1
 Collection Date: 2/23/2022 2:05:00 PM

 Lab ID:
 2202C09-005
 Matrix: SOIL
 Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	1000	60	mg/Kg	20	3/3/2022 4:28:34 PM	65919
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/1/2022 4:13:26 PM	65838
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/1/2022 4:13:26 PM	65838
Surr: DNOP	102	51.1-141	%Rec	1	3/1/2022 4:13:26 PM	65838
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2022 9:35:00 PM	65812
Surr: BFB	103	70-130	%Rec	1	2/28/2022 9:35:00 PM	65812
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	2/28/2022 9:35:00 PM	65812
Toluene	ND	0.048	mg/Kg	1	2/28/2022 9:35:00 PM	65812
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2022 9:35:00 PM	65812
Xylenes, Total	ND	0.095	mg/Kg	1	2/28/2022 9:35:00 PM	65812
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	2/28/2022 9:35:00 PM	65812

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2202C09 08-Mar-22

WO#:

Client: GHD Midland

Project: Jackson B Flowline Area 1

Sample ID: MB-65919 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 65919 RunNo: 86224

Prep Date: 3/3/2022 Analysis Date: 3/3/2022 SeqNo: 3040668 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-65919 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 65919 RunNo: 86224

Prep Date: 3/3/2022 Analysis Date: 3/3/2022 SeqNo: 3040669 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.5 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2202C09**

08-Mar-22

Client: GHD Midland

Project: Jackson B Flowline Area 1

Sample ID: LCS-65838	SampTy	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 65 8	838	F	RunNo: 80	6162				
Prep Date: 2/28/2022	Analysis Da	ate: 3/	1/2022	\$	SeqNo: 30	037235	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	68.9	135			
Surr: DNOP	4.4		5.000		87.0	51.1	141			
Sample ID: MB-65838	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rango	e Organics	
Client ID: PBS	Batch	ID: 65 8	838	F	RunNo: 80	6162				
Prep Date: 2/28/2022	Analysis Da	ate: 3/	1/2022	5	SeqNo: 30	037236	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.2	51.1	141			
Sample ID: 2202C09-005AMS	SampTy	/pe: MS	3	TestCode: EPA Method			8015M/D: Die	esel Range	e Organics	
Client ID: SW-14	Batch	ID: 65	838	RunNo: 86160						
Prep Date: 2/28/2022	Analysis Da	ate: 3/	1/2022	SeqNo: 3037628			Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.0	45.13	7.571	84.6	39.3	155			
Surr: DNOP	4.0		4.513		87.9	51.1	141			

Sample ID: 2202C09-005AMS	D SampT	ype: MS	SD	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: SW-14	Batch	ID: 65 8	838	R	lunNo: 80	6160				
Prep Date: 2/28/2022	Analysis D	ate: 3/	1/2022	S	SeqNo: 30	037629	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	8.8	43.78	7.571	88.6	39.3	155	1.39	23.4	
Surr: DNOP	3.8		4.378		87.2	51.1	141	0	0	

Sample ID: LCS-65852	SampT	ype: LC	:S	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65852			F	RunNo: 8	6180							
Prep Date: 3/1/2022	3/1/2022 Analysis Date: 3/2/2022 SeqNo:				SeqNo: 3	o: 3038792 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	47	10	50.00	0	94.1	68.9	135						
Surr: DNOP	4.5		5.000		89.4	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

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Hall Environmental Analysis Laboratory, Inc.

2202C09 08-Mar-22

WO#:

Client: GHD Midland

Project: Jackson B Flowline Area 1

Sample ID: MB-65852 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 65852 RunNo: 86180

Prep Date: 3/1/2022 Analysis Date: 3/2/2022 SeqNo: 3038794 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 10.00 104 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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2202C09

WO#:

08-Mar-22

Client: GHD Midland

Project: Jackson B Flowline Area 1

Sample ID: mb-65809 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 65809 RunNo: 86141

Prep Date: 2/25/2022 Analysis Date: 2/28/2022 SeqNo: 3035700 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 106 70 130

Sample ID: Ics-65809 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 65809 RunNo: 86141

Prep Date: 2/25/2022 Analysis Date: 2/28/2022 SeqNo: 3035701 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 O 100 78.6 131 Surr: BFB

117

102

70

70

130

130

Sample ID: Ics-65812 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: LCSS Batch ID: 65812 RunNo: 86147

1200

Prep Date: 2/25/2022 Analysis Date: 2/28/2022 SeqNo: 3035984 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 78.6 131 Surr: BFB 1200 1000 115 70 130

Sample ID: mb-65812 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 65812 RunNo: 86147

Prep Date: 2/25/2022 Analysis Date: 2/28/2022 SeqNo: 3035985 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000

Sample ID: 2202c09-005ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: SW-14 Batch ID: 65812 RunNo: 86147

Prep Date: 2/25/2022 Analysis Date: 2/28/2022 SeqNo: 3035987 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.9 0 70 24.58 100 130 Surr: BFB 1200 983.3 119 70 130

Sample ID: 2202c09-005amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SW-14 Batch ID: 65812 RunNo: 86147

Prep Date: 2/25/2022 Analysis Date: 2/28/2022 SeqNo: 3035988 Units: mg/Kg

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

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 9 of 11

Hall Environmental Analysis Laboratory, Inc.

2202C09 08-Mar-22

WO#:

Client: GHD Midland

Project: Jackson B Flowline Area 1

Sample ID: 2202c09-005amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SW-14** Batch ID: **65812** RunNo: **86147**

Prep Date: 2/25/2022 Analysis Date: 2/28/2022 SeqNo: 3035988 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.53	0	105	70	130	4.44	20	
Surr: BFB	1200		981.4		123	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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2202C09** *08-Mar-22*

Client: GHD Midland

Project: Jackson B Flowline Area 1

Sample ID: mb-65809 SampType: MBLK				TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	atch ID: 65809 RunNo: 86141			6141						
Prep Date: 2/25/2022	Analysis D	Date: 2/ 2	28/2022	SeqNo: 3035742 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130				

Sample ID: LCS-65809	Sampl	ype: LC	S	Tes	tCode: El	PA Method	I 8021B: Volatiles						
Client ID: LCSS	Batch	n ID: 65 8	809	F	RunNo: 80	6141							
Prep Date: 2/25/2022	Analysis D	ate: 2/ 2	28/2022	S	SeqNo: 30	035743	Units: mg/K	s: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.90	0.025	1.000	0	90.0	80	120	•					
Toluene	0.96	0.050	1.000	0	95.5	80	120						
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120						
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120						
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130						

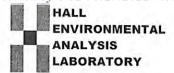
Sample ID: Ics-65812	Samp	Гуре: LC	s	Tes	tCode: El	EPA Method 8021B: Volatiles							
Client ID: LCSS	Batc	h ID: 65	812	F	RunNo: 8	6147							
Prep Date: 2/25/2022	Analysis Date: 2/28/2022			SeqNo: 3036059			Units: mg/k	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.91	0.025	1.000	0	91.2	80	120						
Toluene	0.93	0.050	1.000	0	93.3	80	120						
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120						
Xylenes, Total	2.8	0.10	3.000	0	93.6	80	120						
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	70	130						

Sample ID: mb-65812	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volatiles					
Client ID: PBS	Batch	n ID: 65 8	812	F	tunNo: 8	6147						
Prep Date: 2/25/2022	Analysis D	oate: 2/	28/2022	S	SeqNo: 3	036060	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	0.89		1.000		89.4	70	130					

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: GHD Midland	Work Order Numb	er: 2202	C09		RcptNo: 1
Received By: Cheyenne Cason	2/25/2022 8:00:00 A	М		Chal	
Completed By: Desiree Dominguez	2/25/2022 8:29:15 A	М		TES	
Reviewed By: 712 2/23/22					
Chain of Custody					
1. Is Chain of Custody complete?		Yes	V	No 🗆	Not Present
2. How was the sample delivered?		Cour	ier		
Log In					
3. Was an attempt made to cool the sample	es?	Yes	✓	No 🗌	NA 🗆
4. Were all samples received at a temperate	ure of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗆
5. Sample(s) in proper container(s)?		Yes	V	No 🗆	
5. Sufficient sample volume for indicated tes	st(s)?	Yes	V	No 🗆	
7. Are samples (except VOA and ONG) prop	perly preserved?	Yes	V	No 🗆	
3. Was preservative added to bottles?		Yes		No 🗹	NA 🗆
Received at least 1 vial with headspace <	1/4" for AQ VOA?	Yes		No 🗌	NA 🗹
0. Were any sample containers received bro	oken?	Yes		No 🔽	# of preserved
1. Does paperwork match bottle labels?		Yes	V	No 🗆	bottles checked for pH:
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain	-10	4			(<2 or >12 unless noted) Adjusted?
3. Is it clear what analyses were requested?			✓ ✓	No 🗆	/ djgsteu:
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗆	Checked by: KPG 2/25/
pecial Handling (if applicable)					, ,
5. Was client notified of all discrepancies wi	th this order?	Yes		No 🗌	NA 🗹
Person Notified:	Date:				
By Whom:	Via:	еМа	il 🔲 F	Phone Fax	☐ In Person
Regarding:			-1-		
Client Instructions:					
6. Additional remarks:					
7. Cooler Information					
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Da	te	Signed By	



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

March 10, 2022

Becky Haskell GHD Midland 2135 S Loop 250 W Midland, TX 79703

TEL: (432) 686-0086

FAX

RE: Jackson B 17 Flowline Area 1 OrderNo.: 2203064

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/2/2022 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-8A

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/28/2022 12:20:00 PM

 Lab ID:
 2203064-001
 Matrix: SOIL
 Received Date: 3/2/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1700	60	mg/Kg	20	3/8/2022 11:45:49 AM	66014
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/3/2022 10:41:05 PM	65927
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/3/2022 10:41:05 PM	65927
Surr: DNOP	92.8	51.1-141	%Rec	1	3/3/2022 10:41:05 PM	65927
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/3/2022 9:51:48 PM	65901
Surr: BFB	111	70-130	%Rec	1	3/3/2022 9:51:48 PM	65901
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/3/2022 9:51:48 PM	65901
Toluene	ND	0.049	mg/Kg	1	3/3/2022 9:51:48 PM	65901
Ethylbenzene	ND	0.049	mg/Kg	1	3/3/2022 9:51:48 PM	65901
Xylenes, Total	ND	0.098	mg/Kg	1	3/3/2022 9:51:48 PM	65901
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	3/3/2022 9:51:48 PM	65901

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

Qualifiers:

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

Page 1 of 10

Date Reported: 3/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: BH-7A

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/28/2022 12:25:00 PM

 Lab ID:
 2203064-002
 Matrix: SOIL
 Received Date: 3/2/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	480	60	mg/Kg	20	3/8/2022 1:49:17 PM	66014
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	130	mg/Kg	1	3/3/2022 10:51:52 PM	65927
Motor Oil Range Organics (MRO)	ND	650	mg/Kg	1	3/3/2022 10:51:52 PM	65927
Surr: DNOP	95.7	51.1-141	%Rec	1	3/3/2022 10:51:52 PM	65927
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/3/2022 11:02:48 PM	65901
Surr: BFB	113	70-130	%Rec	1	3/3/2022 11:02:48 PM	65901
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/3/2022 11:02:48 PM	65901
Toluene	ND	0.048	mg/Kg	1	3/3/2022 11:02:48 PM	65901
Ethylbenzene	ND	0.048	mg/Kg	1	3/3/2022 11:02:48 PM	65901
Xylenes, Total	ND	0.096	mg/Kg	1	3/3/2022 11:02:48 PM	65901
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	3/3/2022 11:02:48 PM	65901

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

Qualifiers:

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

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Date Reported: 3/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-W-11'-22'

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/28/2022 12:30:00 PM

 Lab ID:
 2203064-003
 Matrix: SOIL
 Received Date: 3/2/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	2000	60	mg/Kg	20	3/8/2022 2:01:37 PM	66014
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	9.6	9.4	mg/Kg	1	3/3/2022 11:02:39 PM	65927
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/3/2022 11:02:39 PM	65927
Surr: DNOP	104	51.1-141	%Rec	1	3/3/2022 11:02:39 PM	65927
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/4/2022 12:13:43 AM	65901
Surr: BFB	110	70-130	%Rec	1	3/4/2022 12:13:43 AM	65901
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/4/2022 12:13:43 AM	65901
Toluene	ND	0.047	mg/Kg	1	3/4/2022 12:13:43 AM	65901
Ethylbenzene	ND	0.047	mg/Kg	1	3/4/2022 12:13:43 AM	65901
Xylenes, Total	ND	0.095	mg/Kg	1	3/4/2022 12:13:43 AM	65901
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	3/4/2022 12:13:43 AM	65901

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

Qualifiers:

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

Page 3 of 10

Date Reported: 3/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-N-11'-22'

 Project:
 Jackson B 17 Flowline Area 1
 Collection Date: 2/28/2022 12:35:00 PM

 Lab ID:
 2203064-004
 Matrix: SOIL
 Received Date: 3/2/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	690	60	mg/Kg	20	3/8/2022 2:13:57 PM	66014
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	12	9.4	mg/Kg	1	3/3/2022 11:13:27 PM	65927
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/3/2022 11:13:27 PM	65927
Surr: DNOP	96.4	51.1-141	%Rec	1	3/3/2022 11:13:27 PM	65927
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/4/2022 1:01:01 AM	65901
Surr: BFB	109	70-130	%Rec	1	3/4/2022 1:01:01 AM	65901
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/4/2022 1:01:01 AM	65901
Toluene	ND	0.049	mg/Kg	1	3/4/2022 1:01:01 AM	65901
Ethylbenzene	ND	0.049	mg/Kg	1	3/4/2022 1:01:01 AM	65901
Xylenes, Total	ND	0.098	mg/Kg	1	3/4/2022 1:01:01 AM	65901
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	3/4/2022 1:01:01 AM	65901

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

Qualifiers:

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

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Date Reported: 3/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-E-11'-22'

Project: Jackson B 17 Flowline Area 1
 Collection Date: 2/28/2022 12:40:00 PM

 Lab ID: 2203064-005
 Matrix: SOIL
 Received Date: 3/2/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	690	59	mg/Kg	20	3/8/2022 2:26:18 PM	66014
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	3/3/2022 11:24:16 PM	65927
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	3/3/2022 11:24:16 PM	65927
Surr: DNOP	93.5	51.1-141	%Rec	1	3/3/2022 11:24:16 PM	65927
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/4/2022 1:24:36 AM	65901
Surr: BFB	110	70-130	%Rec	1	3/4/2022 1:24:36 AM	65901
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	3/4/2022 1:24:36 AM	65901
Toluene	ND	0.050	mg/Kg	1	3/4/2022 1:24:36 AM	65901
Ethylbenzene	ND	0.050	mg/Kg	1	3/4/2022 1:24:36 AM	65901
Xylenes, Total	ND	0.10	mg/Kg	1	3/4/2022 1:24:36 AM	65901
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	3/4/2022 1:24:36 AM	65901

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

Qualifiers:

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

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Date Reported: 3/10/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland Client Sample ID: SW-S-11'-22'

Project: Jackson B 17 Flowline Area 1
 Collection Date: 2/28/2022 12:55:00 PM

 Lab ID: 2203064-006
 Matrix: SOIL
 Received Date: 3/2/2022 7:30:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	1400	60	mg/Kg	20	3/8/2022 2:38:39 PM	66014
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	22	9.0	mg/Kg	1	3/3/2022 11:35:06 PM	65927
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/3/2022 11:35:06 PM	65927
Surr: DNOP	98.3	51.1-141	%Rec	1	3/3/2022 11:35:06 PM	65927
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/4/2022 1:48:04 AM	65901
Surr: BFB	112	70-130	%Rec	1	3/4/2022 1:48:04 AM	65901
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/4/2022 1:48:04 AM	65901
Toluene	ND	0.048	mg/Kg	1	3/4/2022 1:48:04 AM	65901
Ethylbenzene	ND	0.048	mg/Kg	1	3/4/2022 1:48:04 AM	65901
Xylenes, Total	ND	0.097	mg/Kg	1	3/4/2022 1:48:04 AM	65901
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	3/4/2022 1:48:04 AM	65901

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

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203064**

10-Mar-22

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: MB-66014 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66014 RunNo: 86321

Prep Date: 3/8/2022 Analysis Date: 3/8/2022 SeqNo: 3044969 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-66014 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66014 RunNo: 86321

Prep Date: 3/8/2022 Analysis Date: 3/8/2022 SeqNo: 3044970 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.0 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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203064

10-Mar-22

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: 2203064-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics BH-8A Client ID: Batch ID: 65927 RunNo: 86217 Prep Date: 3/3/2022 Analysis Date: 3/3/2022 SeqNo: 3039839 Units: mq/Kq SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Diesel Range Organics (DRO) 50 9.9 49.60 5.946 88.6 39.3 155 Surr: DNOP 4.8 4.960 96.0 51.1 141

Sample ID: 2203064-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: BH-8A Batch ID: 65927 RunNo: 86217 Prep Date: 3/3/2022 Analysis Date: 3/4/2022 SeqNo: 3039840 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 23.4 49 9.4 47.04 5.946 92.3 39.3 155 1.06 Surr: DNOP 5.0 4.704 106 51.1 141 0 0

Sample ID: LCS-65927 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 65927 RunNo: 86217 Prep Date: 3/3/2022 Analysis Date: 3/3/2022 SeqNo: 3039862 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Diesel Range Organics (DRO) 46 10 50.00 0 91.6 68.9 135 Surr: DNOP 3.6 5.000 71.8 51.1 141

Sample ID: MB-65927 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 65927 RunNo: 86217 Prep Date: 3/3/2022 Analysis Date: 3/3/2022 SeqNo: 3039865 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 7.9 79.0 51.1

10.00

Qualifiers:

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

141

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203064** 10-Mar-22

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: mb-65901 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 65901 RunNo: 86234

Prep Date: 3/2/2022 Analysis Date: 3/3/2022 SeqNo: 3039486 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 109 70 130

Sample ID: Ics-65901 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 65901 RunNo: 86234

Prep Date: 3/2/2022 Analysis Date: 3/3/2022 SeqNo: 3039493 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 O 96.8 78.6 131

Surr: BFB 1200 1000 121 70 130

Sample ID: 2203064-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH-8A** Batch ID: **65901** RunNo: **86234**

Prep Date: 3/2/2022 Analysis Date: 3/3/2022 SeqNo: 3039510 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 27 4.8 24.25 0 111 70 130

Surr: BFB 1200 969.9 122 70 130

Sample ID: 2203064-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH-8A** Batch ID: **65901** RunNo: **86234**

Prep Date: 3/2/2022 Analysis Date: 3/3/2022 SeqNo: 3039517 Units: mq/Kq

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 26 4.8 23.90 110 70 2.61 n 130 20 Surr: BFB 1200 956.0 124 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203064** 10-Mar-22

Client: GHD Midland

Project: Jackson B 17 Flowline Area 1

Sample ID: mb-65901 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 65901 RunNo: 86234

Prep Date: 3/2/2022 Analysis Date: 3/3/2022 SeqNo: 3039660 Units: mg/Kg

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

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 102 70 130

Sample ID: LCS-65901 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 65901 RunNo: 86234

Prep Date: 3/2/2022 Analysis Date: 3/3/2022 SeqNo: 3039661 Units: mg/Kg

Trop Bate. SIZIZOZZ	7 trialy 515 L	Jaio. 3 ,	JIZUZZ	,	Joq. 10. 3	000001	Office. Ing/19	9		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.2	80	120			
Toluene	0.89	0.050	1.000	0	89.4	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: 2203064-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BH-7A Batch ID: 65901 RunNo: 86234 Prep Date: 3/2/2022 Analysis Date: 3/3/2022 SeqNo: 3039664 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 95.7 0.93 0.024 0.9747 68.8 120 Benzene n Toluene 0.049 0.9747 0 105 73.6 124 1.0

129 0 108 72.7 Ethylbenzene 1.1 0.049 0.9747 Xylenes, Total 3.1 0.097 2.924 0 108 75.7 126 Surr: 4-Bromofluorobenzene 1.0 0.9747 107 70 130

Sample ID: 2203064-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **BH-7A** Batch ID: **65901** RunNo: **86234**

Prep Date: 3/2/2022	Analysis D	Date: 3/	3/2022	S	SeqNo: 30	039665	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9569	0	88.5	68.8	120	9.61	20	
Toluene	0.92	0.048	0.9569	0	96.0	73.6	124	10.7	20	
Ethylbenzene	0.94	0.048	0.9569	0	98.1	72.7	129	11.6	20	
Xylenes, Total	2.8	0.096	2.871	0	98.9	75.7	126	10.1	20	
Surr: 4-Bromofluorobenzene	1.0		0.9569		109	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 interference

B Analyte detected in the associated Method Blank

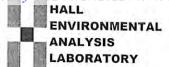
E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

Sample Log-In Check List

Website: clients.hallenvironmental.com

Client Name:	GHD		Wo	k Order Numbe	: 220	3064			RcptNo: 1	-
Received By:	Tracy Cas	sarrubias	3/2/20	22 7:30:00 AM						
Completed By:	Cheyenne	Cason	3/2/20	22 8:13:21 AM			Chan	1		
Reviewed By:	KPG	3	2/22				(Jone)			
Chain of Cus										
1. Is Chain of C	custody comp	lete?			Yes	~	No		Not Present	
2. How was the	sample deliv	rered?			Cou	rier				
Log In										
3. Was an atten	not made to	cool the sam	inles?		Yes	V	No	ÍΙ	NA 🗆	
		out the ban	,pioo:		103	(2)	NO		NA 🗀	
4. Were all sam	ples received	at a tempe	rature of >0° C	to 6.0°C	V		No	~		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	at a tompo	atale of Fo	710 0.0 C	Yes		ot frozen		NA 🗆	
5. Sample(s) in	proper conta	iner(s)?			Yes		No			
Sufficient sam					Yes	V	No			
7. Are samples ((except VOA	and ONG) p	roperly presen	/ed?	Yes	V	No			
8. Was preserva	ative added to	bottles?			Yes		No	~	NA 🗆	
O Described at t	SEEP AT 1904 CM		107000						2	4.5
9. Received at le				VOA?	Yes	Ц	No	Ш	NA 🔽	
10. Were any sar	mple containe	ers received	broken?		Yes		No	~	# of preserved	
11. Does paperwo									bottles checked	
(Note discrepa			(v)		Yes	V	No		for pH: (2 or >12 unless noted)	
12. Are matrices of				,	Yes	~	No		Adjusted?	
3. Is it clear what					Yes	-	No	ī		
14. Were all holdir	ng times able	to be met?			Yes		No		Checked by CM 3/2/22	
(If no, notify cu	ustomer for a	uthorization	.)					/	, , , , , , , , , ,	
Special Handl	ing (if app	licable)								
15. Was client no			with this and	2			225		177	
		screpancies	with this order		Yes		No	Ш	NA 🗹	
Person	Notified:			Date:		-				
By Who				Via:	eMa	ail 🗌	Phone [Fax	In Person	
Regardi										
Client Ir	nstructions:									
Additional rer	marks:									
17. Cooler Infor	mation									
Cooler No		Condition	Seal Intact	Seal No S	eal Da	ate	Signed E	3v		
1	4.4	Good	Not Present	A CHESCHALL STATE		172	2.31.00 L	,		
2	-0.9	Good	Not Present							
3	-0.1	Good	Not Present							

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X

Appendix E Confirmation Sampling Notifications

From: Chase Settle < Chase_Settle@eogresources.com>

Sent: Thursday, February 3, 2022 5:51 PM

To: Zach Comino; Becky Haskell

Subject: FW: Jackson B 17 Flowline Area 1 (nAPP2110638995) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>

Sent: Thursday, February 3, 2022 4:35 PM

To: Robert.Hamlet@state.nm.us; blm nm cfo spill@blm.gov

Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Chase

Settle <Chase_Settle@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Yvette Moore

<Yvette Moore@eogresources.com>

Subject: Jackson B 17 Flowline Area 1 (nAPP2110638995) Sampling Notification

Good afternoon,

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

Jackson B 17 Flowline Area 1 M-1-17S-30E Eddy County, NM nAPP2110638995

Sampling will begin at 8:00 a.m. on Tuesday, February 8, 2022.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com

eog resources

From: Chase Settle < Chase_Settle@eogresources.com>

Sent: Wednesday, February 9, 2022 10:24 AM

To: Zach Comino; Becky Haskell

Subject: FW: Jackson B 17 Flowline Area 1 (nAPP2110638995) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>

Sent: Wednesday, February 9, 2022 9:20 AM

To: Robert.Hamlet@state.nm.us; blm nm cfo spill@blm.gov

Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Chase

Settle <Chase_Settle@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Yvette Moore

<Yvette Moore@eogresources.com>

Subject: Jackson B 17 Flowline Area 1 (nAPP2110638995) Sampling Notification

Good morning,

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

Jackson B 17 Flowline Area 1 M-1-17S-30E Eddy County, NM nAPP2110638995

Sampling will begin at 8:00 a.m. on Wednesday, February 16, 2022.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com

eog resources

From: Chase Settle < Chase_Settle@eogresources.com>

Sent: Thursday, February 17, 2022 11:17 AM

To: Zach Comino; Becky Haskell

Subject: FW: Jackson B 17 Flowline Area 1 (nAPP2110638995) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>

Sent: Thursday, February 17, 2022 9:50 AM

To: Robert.Hamlet@state.nm.us; blm nm cfo spill@blm.gov

Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Chase

Settle <Chase Settle@eogresources.com>; Katie Jamison <Katie Jamison@eogresources.com>; Yvette Moore

<Yvette Moore@eogresources.com>

Subject: Jackson B 17 Flowline Area 1 (nAPP2110638995) Sampling Notification

Good morning,

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

Jackson B 17 Flowline Area 1 M-1-17S-30E Eddy County, NM nAPP2110638995

Sampling will begin at 8:00 a.m. on Wednesday, February 23, 2022.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168

Cell: 575.703.3121

Email: tina huerta@eogresources.com

eog resources

From: Chase Settle < Chase_Settle@eogresources.com>

Sent: Monday, February 28, 2022 10:08 AM

To: Becky Haskell; Zach Comino

Subject: FW: [EXTERNAL] Jackson B 17 Flowline Area 1 (nAPP2110638995) Sampling Notification

Becky,

Not the request of NMOCD regarding Closure Reports.

Chase

From: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

Sent: Monday, February 28, 2022 9:03 AM

To: Tina Huerta <Tina_Huerta@eogresources.com>

Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Chase

Settle <Chase Settle@eogresources.com>; Katie Jamison <Katie Jamison@eogresources.com>; Yvette Moore

<Yvette_Moore@eogresources.com>

Subject: RE: [EXTERNAL] Jackson B 17 Flowline Area 1 (nAPP2110638995) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thank you for the notifications. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Tina Huerta < Tina Huerta@eogresources.com >

Sent: Thursday, February 24, 2022 10:30 AM

To: Hamlet, Robert, EMNRD < Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov

Cc: Artesia Regulatory < Artesia Regulatory@eogresources.com >; Bob Asher < Bob Asher@eogresources.com >; Chase

Settle <Chase Settle@eogresources.com>; Katie Jamison@eogresources.com>; Yvette Moore

< Yvette_Moore@eogresources.com>

Subject: [EXTERNAL] Jackson B 17 Flowline Area 1 (nAPP2110638995) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

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

Jackson B 17 Flowline Area 1 M-1-17S-30E Eddy County, NM nAPP2110638995

Sampling will begin at 10:15 a.m. on Monday, February 28, 2022.

Thank you,

Tina Hverta Regulatory Specialist

Direct: 575.748.4168 Cell: 575.703.3121

Email: tina huerta@eogresources.com

eog resources

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 93871

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	93871
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	4/18/2022