ecerved by UCD: 3/10/2022 9:25:05 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Repor
Well Name: JACKSON B	Well Location: T17S / R30E / SEC 1 / SWSW /	County or Parish/State: EDDY / NM
Well Number: 17	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number:	Unit or CA Name:	Unit or CA Number:
US Well Number: 300150403900X1	Well Status: Abandoned	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Sundry ID: 2645983

Type of Submission: Notice of Intent

Date Sundry Submitted: 11/29/2021

Date proposed operation will begin: 05/02/2022

Type of Action: Reclamation Time Sundry Submitted: 12:17 12

Procedure Description: EOG Resources, Inc. respectfully requests extending Reclamation due to Historic Remediation needing to take place before Reclamation can be completed. Attached is the plan that was submitted to the NMOCD. Thank you.

NOI Attachments

Procedure Description

Jackson_B_17_Wellhead_Characterization_Remediation_Plan_nAPP2111044488_20211129121644.pdf

Jackson_B_17_Flowline_Area1_Characterization_Remediation_Plan_nAPP2110638995_20211129121631.pdf

Received by OCD: 3/10/2022 9:25:05 AM Well Name: JACKSON B	Well Location: T17S / R30E / SEC 1 / SWSW /	County or Parish/State: EDDY / 143 NM
Well Number: 17	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number:	Unit or CA Name:	Unit or CA Number:
US Well Number: 300150403900X1	Well Status: Abandoned	Operator: EOG RESOURCES INCORPORATED

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signa	ature: TINA HUERTA
Name: EOG RESOURCES	INCORPORATED
Title: Regulatory Specialist	
Street Address: 104 SOU	TH FOURTH STREET
City: Artesia	State: NM
Phone: (575) 748-4168	

Email address: tina_huerta@eogresources.com

Field Representative

Representative Name: Street Address: City: State: Phone: Email address:

BLM Point of Contact

BLM POC Name: JAMES A AMOS BLM POC Phone: 5752345927 Disposition: Approved Signature: James A. Amos

BLM POC Title: Acting Assistant Field Manager BLM POC Email Address: jamos@blm.gov Disposition Date: 03/09/2022

Zip:

Signed on: NOV 29, 2021 12:17 PM

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

Responsible Party EOG Resources, Inc.	OGRID 7377	
Contact Name Chase Settle	Contact Telephone 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 B #17	Site Type Flow Line
Date Release Discovered 04/12/2021	API# (if applicable) 30-015-04039

Unit Letter	Section	Township	Range	County
М	1	17S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	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 impacts discovered along the flow line during the well P&A process. Release volume and date are unknown.

Page 2

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
🗌 Yes 🔽 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \checkmark The source of the release has been stopped.

 \bigvee The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

Signature: Chas Settle

Title:	Rep	Safety	&	Environmental Sr
--------	-----	--------	---	------------------

____ email: Chase_Settle@eogresources.com

OCD Only

Received by:

Date:

Date: 04/16/2021

Telephone: 575-748-1471

Received by OCD: 3/10/2022 9:25:05 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 5 of 14
Incident ID	nAPP2110638995
District RP	
Facility ID	
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?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔽 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔽 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔽 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- $\mathbf{\underline{\nabla}}$ Boring or excavation logs
 - Photographs including date and GIS information
- Z 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.

Form (_141	2 9:25:05 AM State of New Mexi	c0		Page 6 of
			Incident ID	nAPP2110638995
Page 4	Oil Conservation Div	1S10n	District RP	
			Facility ID	
			Application ID	
public health or the environme failed to adequately investigat addition, OCD acceptance of a and/or regulations. Printed Name: Chase S Signature: <u>Chase S</u>	equired to report and/or file certain rele ent. The acceptance of a C-141 report e and remediate contamination that por a C-141 report does not relieve the ope ettle c Deogresources.com	by the OCD does not relieve th se a threat to groundwater, surf erator of responsibility for comp	e operator of liability slace water, human health liance with any other for ty & Environmer	hould their operations have h or the environment. In ederal, state, or local laws

Received by OCD: 3/10/2022 9:25:05 AM Form C-141 State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	nAPP2110638995
District RP	
Facility ID	
Application ID	

Remediation 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) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Rep Safety & Environmental Sr Printed Name: Chase Settle Signature: Than Sittle Date: 08/31/2021 email: Chase_Settle@eogresources.com Telephone: 575-748-1471 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 5

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



Our ref: 11228312

August 31, 2021

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

Re: Site Characterization and Remediation Work Plan 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 Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, 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 initial report 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.

The Initial Form C-141, Site Assessment/Characterization and Remediation Plan portions of Form C-141 for Incident Number nAPP2110638995 are attached to the front of this report.

→ The Power of Commitment

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 the following GPS Coordinates, 32.85697 N latitude and 103.92703 W longitude to approximately 125 feet below ground surface (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 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'

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 BTEX by EPA Method 8021B, 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



impacted area. The test pit locations were excavated to depths ranging from surface to approximately twenty (20) feet 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 1 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) feet bgs. Samples were collected in approximately five (5) foot intervals beginning at twent-five (25) feet 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 1 closure criteria. The A1-1 Soil Boring Log is provided as Attachment B.

Figure 2, Site Assessment: Soil Analytical Results Map, 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. nAPP2110638995 Proposed Work Plan

GHD, on behalf of EOG, proposes to excavate the A1-1 area eight (8) to ten (10) feet bgs or until the Total TPH concentrations are less than 2,500 mg/kg. Areas A1-2 and A1-3 will be excavated to a depth where Total TPH concentrations are less than 2,500 mg/kg or four (4) feet bgs. Soils containing Total TPH concentrations over 100 mg/kg and chloride concentrations over 600 mg/kg within the top four feet of the impacted area will be excavated as well.

Composite confirmation samples will be collected from the sidewalls of the excavation from areas representing area no larger than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls if any staining is observed. No confirmation samples will be collected from the bottom of the excavation as the site is already vertically delineated. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

Excavated soils will be transported to a NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 335 cubic yards. The excavation will be backfilled with non-impacted soil transported to the site. The remediation will be performed within 90 days after the work plan has been approved. A closure report will be prepared to document remediation activities and submitted to the NMOCD when remediation activities have been completed.

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.

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Received by OCD: 3/10/2022 9:25:05 AM

Sincerely,

GHD

Rebecca Haskell

Becky Haskell Senior Project Manager

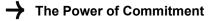
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Thomas Clayon

Thomas C. Larson, M.S. Midland Operation Manager

Encl. Figure 1 – Site Location Map
Figure 2 – Site Assessment Soil Analytical Results Map
Table 1 – Summary of Soil Analytical Data
Attachment A – Site Characterization Documentation
Attachment B – A1-1 Soil Boring Log
Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation

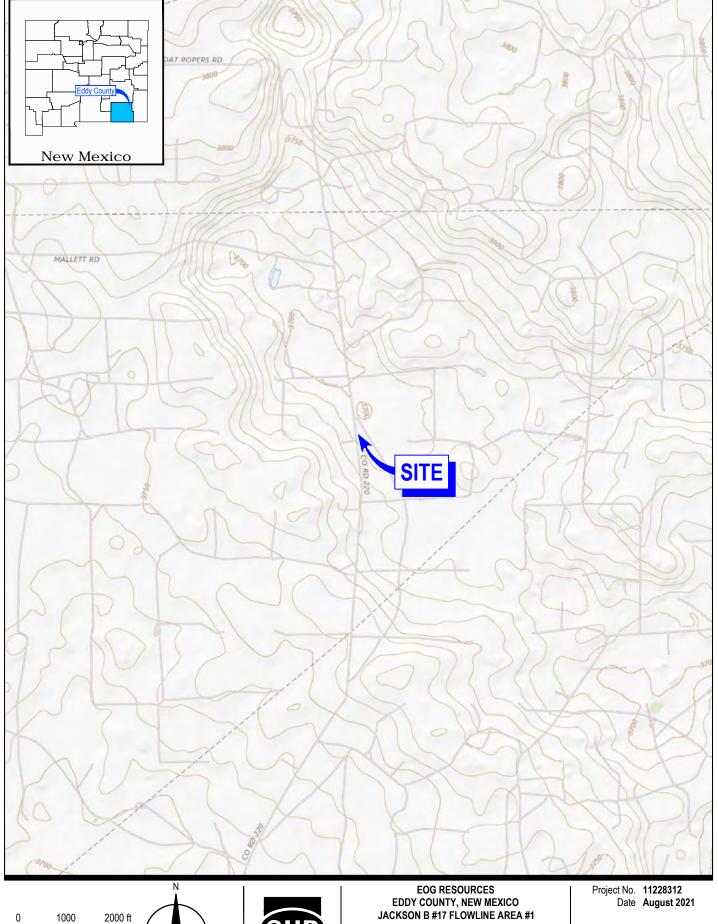
cc: Chase Settle



Received by OCD: 3/10/2022 9:25:05 AM

Figures

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JACKSON B #17 FLOWLINE AREA #1

FIGURE 1

SITE LOCATION MAP

Coordinate System: NAD 1983 (2011) StatePlane-New Mexico East (US Feet)

Data Source: USGS 7.5 Minute Quad "Loco Hills and Henshaw Tank, New Mexico" Lat/Long: 32.858298° North, 103.926368° West

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DEPTH DEPTH OF SAMPLE (FT)	DATE 04/20/2021	05/25/2021	07/22/2021
BTEX BENZENE, TOLUENE, ETHYLBENZENE &	DEPTH 1' 2' 4' 6' BENZENE <0.025		07/22/2021 25' 30' 35' 1.025 <0.024 <0.025
XYLENES CONCENTRATION (MG/KG) TPH TOTAL PETROLEUM HYDROCARBONS	BTEX <0.10 <0.099 <0.099 69.46 TPH 17,725 6,300 7,180 12,200		0.098 <0.095 <0.099 24 <47 <49
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NOTES:		EOG RESOURCES EDDY COUNTY, NEW MEXICO	Project No. 11228312 Date August 2021 FIGURE 2 2021 Google - Imagery Date: November 2, 2017
		JACKSON B #17 FLOWLINE AREA #1	
	I MILLIGRAMS PER KILOGRAM (MG/KG).		to 1
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NAD 1983 (2011) StatePlane- New Mexico East (US Feet) 3. YELLOW SH	IADED CELLS INDICATE EXCEEDANCE.	SOIL ANALYTICAL RESULTS MAP	FIGURE 2 💈
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Pilot Date: 24 August 2021 12:04 PM			Lat/Long: 32.858298° North, 103.926368° West

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Received by OCD: 3/10/2022 9:25:05 AM

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Tables

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Table 1Summary of Soil Analytical DataJackson B #17 Flowline Area 1EOG ResourcesEddy County, New Mexico

								ТРН				
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO	DRO	MRO	Total	Chloride
Sample ID	Sample	Depth						(C6-C10)	(C10-C28)	(C28-C35)	GRO/DRO/MRO	
Gampie ib	Date	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg) oundwater 19.15	(mg/Kg)	(mg/Kg)	(mg/Kg)
			10					1	mg/Kg	.29 NMAC	2 500	20.000
			10 mg/Kg				50 mg/Kg	1,000	mg/Kg		2,500 mg/Kg	20,000 mg/Kg
A4.4.0.m	4/20/24	41	-0.025	0.050	TT	essment Samp	1	05	0.400	0.000	47 705	470
A1-1 Sur	4/20/21	1'	< 0.025	< 0.050	< 0.050	<0.10	<0.10	25	8,400	9,300	17,725	170
A1-1 2'	4/20/21	2'	<0.025	< 0.050	<0.050	<0.099	<0.099	<5.0	2,700	3,600	6,300	250
A1-1 4'	4/20/21 4/20/21	4' 6'	<0.025 <0.025	< 0.050	< 0.050	<0.099	< 0.099	180	4,500	2,500	7,180	610
A1-1 6' A1-1 8'	4/20/21	6 8'	<0.025	0.16 0.16	2.3 1.2	67 72	69.46 73.36	1,200 1,400	7,600	3,400	12,200 16,000	1,300 1,300
A1-1 8 A1-1 10'	4/20/21	o 10'	<0.025	< 0.049	<0.049	<0.098	<0.098	<4.9	9,900 300	4,700 520	820	1,300
A1-1 16'	5/25/21	10	<0.023	<0.24	<0.24	<0.49	<0.090	<4.3 66	590	410	1,066	1,900
A1-1 10 A1-1 20'	5/25/21	20'	<0.049	<0.24	<0.098	<0.020	<0.43	<9.8	100	<50	100	4,400
A1-1 25'	7/22/21	25'	<0.045	<0.030	<0.049	<0.020	<0.020	<4.9	24	<49	24	180
A1-1 30'	7/22/21	30'	<0.020	<0.043	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	84
A1-1 35'	7/22/21	35'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	<60
A1-2 Sur	4/20/21	1'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	9,500	7,600	17,100	2,600
A1-2 3'	4/20/21	3'	<0.025	<0.049	0.051	1.4	1.451	59	2,300	1,300	3,659	3,400
A1-2 8'	5/25/21	8'	<0.020	<0.048	<0.048	<0.097	< 0.097	<4.8	55	<49	55	810
A1-2 14'	5/25/21	14'	<0.025	< 0.049	< 0.049	<0.098	< 0.098	<4.9	40	<48	40	460
A1-3 2'	4/20/21	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	3.000	3.200	6,200	730
A1-3 6'	5/25/21	6'	< 0.024	<0.049	<0.049	<0.097	< 0.097	6.3	340	390	736.3	1,500
A1-3 8'	5/25/21	8'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<46	630
A1-3 10'	5/25/21	10'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.0	<45	<45	400
TP1-S	5/25/21	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.8	<44	<44	<60
TP1-2	5/25/21	2'	<0.024	<0.049	< 0.049	<0.098	<0.098	<4.9	<8.8	<44	<44	<59
TP2-S	5/25/21	Surface	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
TP2-2	5/25/21	2'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.9	<45	<45	<60
TP3-S	5/25/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.9	<9.9	<50	<50	<59
TP3-2	5/25/21	2'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<44	<44	<59
TP4-S	5/25/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	<60
TP4-2	5/25/21	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	<60
TP5-S	5/25/21	Surface	<0.024	<0.049	<0.049	<0.096	<0.096	<4.8	<9.7	<48	<48	<60
TP5-2	5/25/21	2'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	<60
TP6-S	5/25/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	<60
TP6-2	5/25/21	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60

Received by OCD: 3/10/2022 9:25:05 AM

Table 1 Summary of Soil Analytical Data Jackson B #17 Flowline Area 1 EOG Resources Eddy County, New Mexico												
										ТРН		
	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Date	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
					Table I C	losure Criteria	for Soils <50 fe	et Depth to Gro	undwater 19.15	.29 NMAC		
			10 mg/Kg				50 mg/Kg	1,000	mg/Kg		2,500 mg/Kg	20,000 mg/
TP7-S	5/25/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	<60
TP7-2	5/25/21	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<49	<59
		•	•				•		•	•	-	

4 BTEX analyses by EPA Method SW 8021B.

B-BH 2 Sample Point Excavated 5. TPH analyses by EPA Method SW 8015 Mod.

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

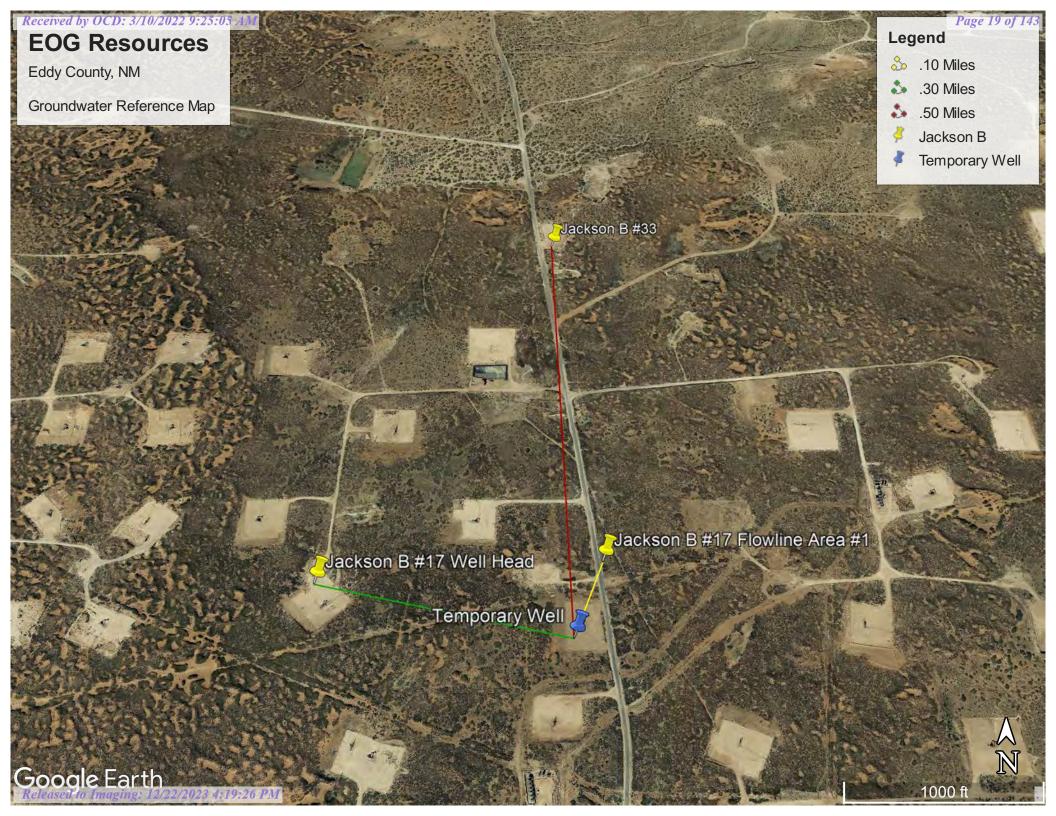
7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1

Closure Criteria for the site.

8. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

Attachment A Site Characterization Documentation

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Received by OCD: 3/10/2022 9:25:05 AM

BORING LOG

Project No.: 700438.238.01

Site Name: Jackson B #59

Location: Eddy County, New Mexico

Date: 5/18/2021

ται σ

Boring Number: B-1

Weather: Clear, Temp.: 75°F

Logger: D. Adkins

Field Instrument: NA

Latitude: 32.85697 N

Longitude: -103.92703 W

Driller: D. Londagin

Rig Type: Reich Drill

Bit Size: 5-7/8"

Drilling Method: Air Rotary

Sample Retrieval Method: Drill Cuttings

Time	Lab Sample Collected	Sample Interval (ft)								
		0-30'				Red/brown fine Sand (SP)	<u>None</u> Slight Mod. Strong			
		30-40'				Red/brown fine Sand (SP) with varying amounts of silt and	<u>None</u> Slight			
						caliche	Mod. Strong			
		40-80'				Dry, dark red/brown sandy Silts (SM)	<u>None</u> Slight Mod. Strong			
		80-125'				Red/brown fine Sand (SP)				
			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	ntered	d @ 125' BGS	S – 72 hr. Logger Initials: _	DJA			

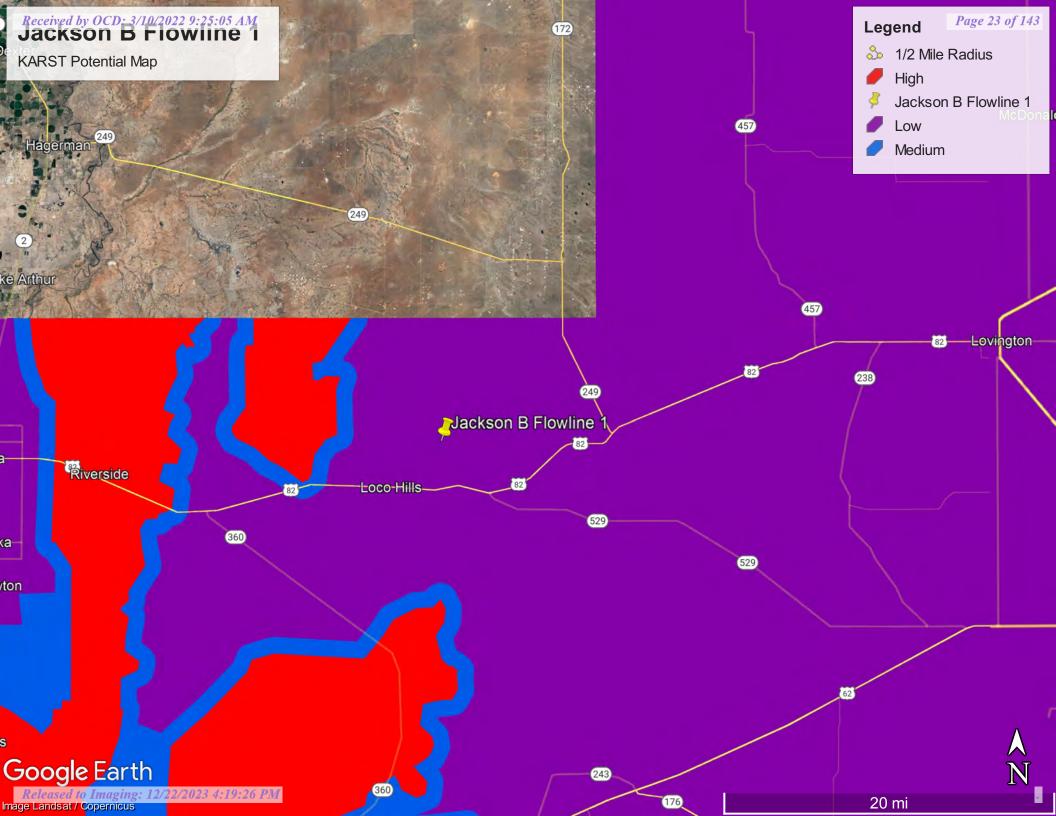
Page ____ of ___

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)
							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:

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

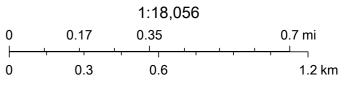


8/19/2021, 4:36:15 PM **GIS WATERS PODs**

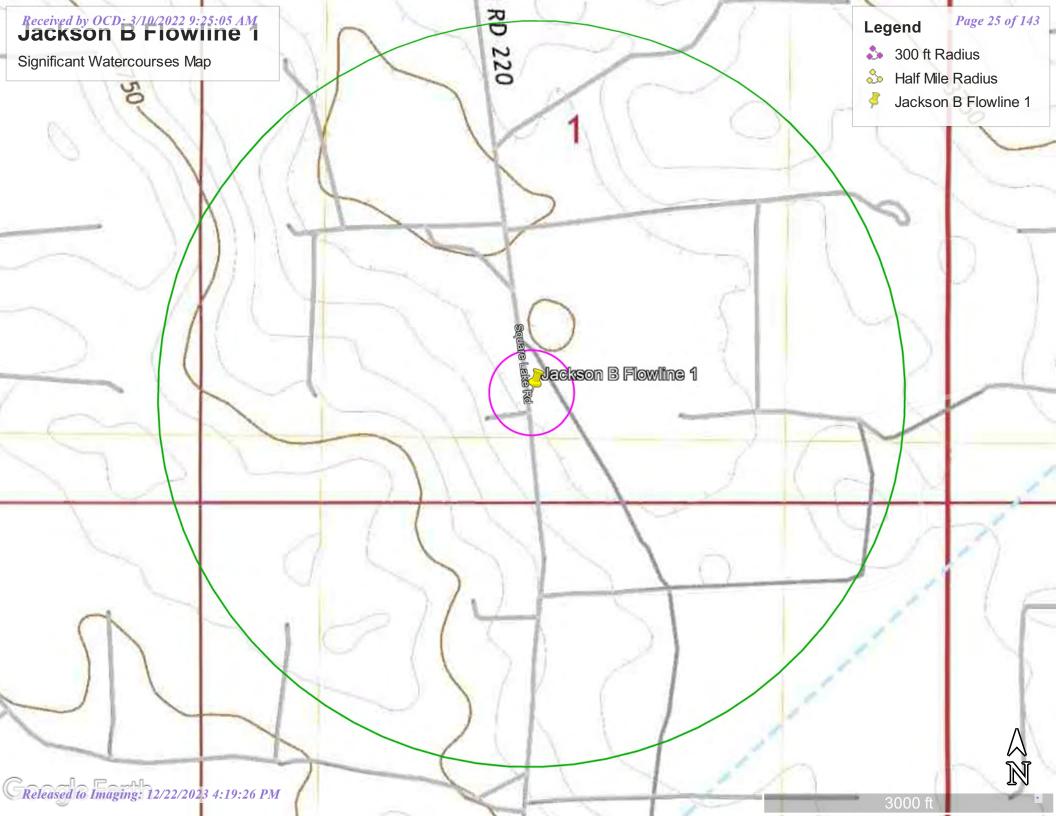
New Mexico State Trust Lands

• Pending

Both Estates OSE District Boundary SiteBoundaries



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



U.S. Fish and Wildlife Service

National Wetlands Inventory



August 26, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake Other Riverine

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.

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Released to Imaging: 12/22/2023 4:19:26 PM

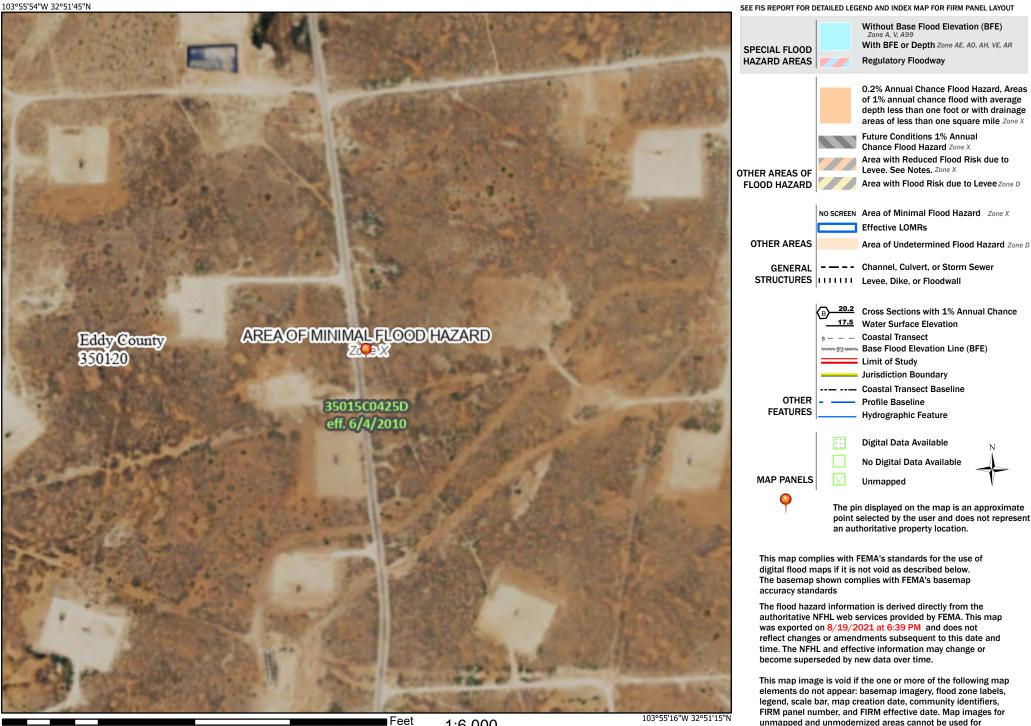
Page 26 of 143

Received by OCD: 3/10/2022 9:25:05 AM National Flood Hazard Layer FIRMette



Legend

Page 27 of 143



Releasea o Imaging: 12/22/2023 9.99:26 PM 1,500

1:6.000 2.000

regulatory purposes.

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Attachment B Soil Boring Log

.



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	BER	IVAL	(%)	ш	5
6/7/21				NUMBER	INTERVAL	REC (%)	mS/cm	NaCI
ate: 2		Start strat log @ 20ft		-	=			
	-							
	-5							
RBUR	- -							
	- 10							
eport:								
	- 15							
V04.0	- 20		20.00					
IVIRO I	20	SAND, fine/medium, red and brown, dry	20.00	20-25'		100	80	Non Detect
≦ ₽	- 25		25.00					
312 G	-	CLAYEY SAND, red and brown, caliche interbedded throughout, dry		25-30'		100	120	Non Detect
11228	— 30	SAND, fine/medium, red and brown, dry	30.00					
Eile	-		•	30-35'		100	80	Non Detect
Library File: 11228312 GHD_ENVIRO_V04.GLB_Report: OVERBURDEN LOG_Date: 26/7/21	- 35	END OF BOREHOLE @ 35.00ft BGS	35.00			-		
	-							
DGS.G	- 40							
312 L(- -							
11228	- 45							
LOGS	-							
	- 50							
OTES	- 							
312/FI	- 60							
11228	-							
S\562	- 65							
	-							
ID/PR(- 70							
	-							
	- 75							
File: \\GHDNET\GHD\US\\MIDLAND\PROJECTS\562\11228312\FIELD NOTES\GINT LOGS\11228312 LOGS\GPJ	- - -							
HDNE		NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION T	ABLE	I	I	1		1
le: ∖(G		CHEMICAL ANALYSIS						
۳L								

Attachment C Laboratory Analytical Reports and Chain-of-Custody Documentation

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April 29, 2021

Chase Settle EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2104970

RE: Jackson B 17

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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

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		2/2021 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 RANG	E ORGANICS					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 RANG	GE					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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 1 of 13

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

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 RANG	GE ORGANICS					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 RAN	GE					Analyst:	ССМ		
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:	ССМ		
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 2 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

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 RANG	GE ORGANICS					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 RAN	GE					Analyst:	ССМ		
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:	ССМ		
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 3 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT: EOG	Client Sample ID: A1-1 6' Collection Date: 4/20/2021 3:00:00 PM							
Project: Jackson B 17								
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 RANG	GE ORGANICS					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 RAN	GE					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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 4 of 13

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

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 RANG	SE ORGANICS					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 RAN	GE					Analyst:	ССМ		
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:	ССМ		
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 5 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT: EOG		Cl	ient Sample II	D: A1	1-1 10'	
Project: Jackson B 17		(Collection Dat	e: 4/2	20/2021 3:05:00 PM	
Lab ID: 2104970-006	Matrix: SOIL		Received Dat	e: 4/2	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	ORGANICS				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	E				Analyst	ССМ
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	ССМ
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 6 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT: EOG		Cl	ient Sa	ample II	D: A1	-2 Sur	
Project: Jackson B 17		(Collect	ion Dat	e: 4/2	20/2021 3:08:00 PM	
Lab ID: 2104970-007	Matrix: SOIL		Recei	ved Dat	e: 4/2	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 RANG	SE ORGANICS					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 RAN	GE					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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 7 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT: EOG		Cl	ient Sa	ample II	D: A1	-2 3'	
Project: Jackson B 17		(Collect	tion Dat	e: 4/2	20/2021 3:11:00 PM	
Lab ID: 2104970-008	Matrix: SOIL		Recei	ved Dat	e: 4/2	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	ORGANICS					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 RANG	E					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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 8 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT: EOG				ample II			
Project: Jackson B 17		(20/2021 3:14:00 PM	
Lab ID: 2104970-009	Matrix: SOIL		Recei	ved Dat	e: 4/2	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	E ORGANICS					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 RANG	Ε					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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 9 of 13

C		WO#:	2104970
Hall Env	vironmental Analysis Laboratory, Inc.		29-Apr-21
Client:	EOG		

Project: Jackson	n 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 Qu	ual
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 Qu	ual
Chloride	14 1.5 15.00 0 93.2 90 110	

Qualifiers:

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

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

Page 10 of 13

SUMINIARY REPORT	WO#:	2104970
ll Environmental Analysis Laboratory, Inc.		29-Apr-21

Client: EOG	D 17			
Project: Jacks	on B 17			
Sample ID: MB-59581	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	e 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			
Motor Oil Range Organics (MRO)				
Surr: DNOP	13 10.00	129 70	130	
Sample ID: LCS-59581	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	e 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	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	62 10 50.00	0 124 68.9	141	
Surr: DNOP	6.6 5.000	131 70	130	S
Sample ID: MB-59616	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	e 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	e 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix S

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

Page 11 of 13

EOG

Client:

LC SUMMART REFORT	WO#:	2104970
Hall Environmental Analysis Laboratory, Inc.		29-Apr-21

Project: Jackson	B 17									
Sample ID: LCS-59578	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	n ID: 59	578	F	RunNo: 7	6952				
Prep Date: 4/22/2021	Analysis D	0ate: 4/	24/2021	S	SeqNo: 2	727288	Units: mg/k	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	78.6	131			
Surr: BFB	1200		1000		115	70	130			
Sample ID: MB-59578	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: 59	578	F	RunNo: 7	6952				
Prep Date: 4/22/2021	Analysis D)ate: 4/	24/2021	5	SeqNo: 2	727289	Units: mg/k	٤g		
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix S

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

Page 12 of 13

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2104970	WO#:
29-Apr-21	

Client: EOG Project: Jackson B 17

Sample ID: LCS-59578	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 59	578	F	RunNo: 7	6952				
Prep Date: 4/22/2021	Analysis E	Date: 4/	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			
	0.00		1.000		07.5	10	100			
Sample ID: MB-59578		Гуре: МЕ		Tes			8021B: Volat	iles		
	SampT	Гуре: МЕ h ID: 59	BLK			PA Method		iles		
Sample ID: MB-59578	SampT	h ID: 59	BLK 578	F	tCode: Ef	PA Method				
Sample ID: MB-59578 Client ID: PBS	Samp1 Batcl	h ID: 59	BLK 578 24/2021	F	tCode: EF	PA Method	8021B: Volat		RPDLimit	Qual
Sample ID: MB-59578 Client ID: PBS Prep Date: 4/22/2021	Samp] Batcl Analysis [h ID: 59 Date: 4/	BLK 578 24/2021	F	tCode: EF RunNo: 70 SeqNo: 27	PA Method 6952 727318	8021B: Volat Units: mg/K	g	RPDLimit	Qual
Sample ID: MB-59578 Client ID: PBS Prep Date: 4/22/2021 Analyte	SampT Batcl Analysis E Result	h ID: 59 Date: 4/ PQL	BLK 578 24/2021	F	tCode: EF RunNo: 70 SeqNo: 27	PA Method 6952 727318	8021B: Volat Units: mg/K	g	RPDLimit	Qual
Sample ID: MB-59578 Client ID: PBS Prep Date: 4/22/2021 Analyte Benzene	SampT Batcl Analysis E Result ND	h ID: 59 Date: 4 /2 PQL 0.025	BLK 578 24/2021	F	tCode: EF RunNo: 70 SeqNo: 27	PA Method 6952 727318	8021B: Volat Units: mg/K	g	RPDLimit	Qual
Sample ID: MB-59578 Client ID: PBS Prep Date: 4/22/2021 Analyte Benzene Toluene	SampT Batcl Analysis E Result ND ND	h ID: 59 Date: 4 / PQL 0.025 0.050	BLK 578 24/2021	F	tCode: EF RunNo: 70 SeqNo: 27	PA Method 6952 727318	8021B: Volat Units: mg/K	g	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 13 of 13

Page 45 of 143	-				
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	ruge	43	U	143	

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: clients.hal	49(quera FAX:) Hawk. jue, NM 505-345	ins NE 87109 Sai 5-4107	nple Log-In C	<i>P</i> heck Lis
Client Name: EOG	Work Order Number:	210	4970	·	RcptNo:	1
Received By: Cheyenne Cason 4/2	2/2021 7:55:00 AM			Cherl		
Completed By: Desiree Dominguez 4/2	2/2021 8:13:30 AM			T-D-		
Reviewed By: JR 4/22/21						
Chain of Custody						
1. Is Chain of Custody complete?		Yes	✓	No 🗌	Not Present	
2. How was the sample delivered?		<u>Cou</u>	<u>rier</u>			
<u>Log In</u>						
3. Was an attempt made to cool the samples?		Yes		No 🗌	NA 🗌	
4. Were all samples received at a temperature of >0	0° C to 6.0°C	Yes		No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes		No 🗌		
6. Sufficient sample volume for indicated test(s)?		Yes	✓	No 🗌		
7. Are samples (except VOA and ONG) properly pre-	served?	Yes	✓	No 🗌		
8. Was preservative added to bottles?	•	Yes		No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4" for /	AQ VOA?	Yes		No 🗌	NA 🗹	~~~~~`\
10. Were any sample containers received broken?		Yes		No 🔽	Γ	10
					# of preserved bottles checked	CI 17
11. Does paperwork match bottle labels?	`	Yes	✓	No 🗌	for pH:	-11001
(Note discrepancies on chain of custody) [2] Are matrices correctly identified on Chain of Custo					Adjusted?	>12 unless not
[3] Is it clear what analyses were requested?	•		✓	No 🗔	, infactor,	/
14. Were all holding times able to be met?		res res			Checked by:	
(If no, notify customer for authorization.)		103			/	
Special Handling (if applicable)						
15. Was client notified of all discrepancies with this of	rder?	Yes		No 🗌	NA 🗹	
Person Notified:	Date:			a internet of the second state of the second s		
By Whom:	Via:	eMa	ail 🗌 I	Phone 🗌 Fax	In Person	
Regarding:	2000 (2012) (2010)				T THE REAL PROPERTY OF THE PRO	
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u>						
3	tact Seal No Se	al D	ate	Signed By		
1 0.7 Good						

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Page 1 of 1

Received by OCD: 3/10/2022 9	25:05 AM					ľ					Pa	ge 46 of	143
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Turn-Around Standard Project Name Project #:	Project Mar <i>UM</i> : Sampler: On Ice: # of Cooler Cooler Terr Container Type and #	14.55									Received by:	Received by	ad to of
Proj	Project N Sampler On Ice: # of Coo Cooler T Type and	Haz Class/									Recei	Receiv	ontract
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	Matrix Matrix	<u>.</u>									Jouriet	Relinquished by	oles sul
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Chain-of-Custody Record :: EOC Resources, エne- ig Address: On File	T Fax#: Package dard tation: AC (Type)	Z,54 p	2:56	2:58	3.02	3:05	3:08	<u> :8</u>	<u></u>		Time: 2:00	Time:	if necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
Chain-of-Custody Ro Client: どのら んぷいに, エルー Mailing Address: 〇ハ F小	이 이 면 잘 뛰어 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이		N	NN	$\frac{1}{2}$	<i>™</i>)	<u>(v)</u>	1131		+	1		
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16 of 1/2



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

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

Hall Environmental Analysis Laboratory

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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

GHD

CLIENT:

Analytical Report Lab Order: 2105B47

Date Reported: 6/10/2021

Lab Or

der:	2105B47	

Project: Jackson B 17 Flowline	1						
Lab ID: 2105B47-001		С	ollection Date	: 5/2	25/2021 9:25:00 A	М	
Client Sample ID: A1-1 16'			Matrix	: SC	DIL		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 300.0: ANIONS					Ana	alyst:	VP
Chloride	1400	60	mg/Kg	20	6/2/2021 1:30:13 F	М	60384
EPA METHOD 8015D MOD: GASOLINE	RANGE				Ana	alyst:	JMR
Gasoline Range Organics (GRO)	66	24	mg/Kg	5	5/29/2021 10:28:0	0 AM	60310
Surr: BFB	104	70-130	%Rec	5	5/29/2021 10:28:0	0 AM	60310
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Ana	alyst:	SB
Diesel Range Organics (DRO)	590	43	mg/Kg	5	6/1/2021 4:24:15 F	M	60311
Motor Oil Range Organics (MRO)	410	210	mg/Kg	5	6/1/2021 4:24:15 F	РМ	60311
Surr: DNOP	102	70-130	%Rec	5	6/1/2021 4:24:15 F	М	60311
EPA METHOD 8260B: VOLATILES SHO	RT LIST				An	alyst:	JMR
Benzene	ND	0.12	mg/Kg	5	5/29/2021 10:28:0	0 AM	60310
Toluene	ND	0.24	mg/Kg	5	5/29/2021 10:28:0	0 AM	60310
Ethylbenzene	0.43	0.24	mg/Kg	5	5/29/2021 10:28:0	0 AM	60310
Xylenes, Total	1.5	0.49	mg/Kg	5	5/29/2021 10:28:0	0 AM	60310
Surr: 1,2-Dichloroethane-d4	84.1	70-130	%Rec	5	5/29/2021 10:28:0	0 AM	60310
Surr: 4-Bromofluorobenzene	84.0	70-130	%Rec	5	5/29/2021 10:28:0	0 AM	60310
Surr: Dibromofluoromethane	102	70-130	%Rec	5	5/29/2021 10:28:0	0 AM	60310
Surr: Toluene-d8	94.4	70-130	%Rec	5	5/29/2021 10:28:0	0 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
 - Н Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

в

Page 1 of 28

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order: 2105B47

Date Reported: 6/10/2021

5/29/2021 10:56:32 AM 60310

CLIENT:	GHD			I	ab O	Order: 21051	347	
Project:	Jackson B 17 Flowline 1			_				
Lab ID:	2105B47-002		С	ollection Date	: 5/2	25/2021 9:35:00 A	М	
Client Sample I	D: A1-1 20'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Bato	ch ID
EPA METHOD	300.0: ANIONS					Ana	alyst: V	/P
Chloride		4400	150	mg/Kg	50	6/4/2021 9:43:51 A	M 6	60384
EPA METHOD	8015D MOD: GASOLINE RA	NGE				Ana	alyst: J	JMR
Gasoline Rang	e Organics (GRO)	ND	9.8	mg/Kg	2	5/29/2021 10:56:32	2 AM 6	50310
Surr: BFB		103	70-130	%Rec	2	5/29/2021 10:56:32	2 AM 6	30310
EPA METHOD	8015M/D: DIESEL RANGE O	ORGANICS				Ana	alyst: S	ЗB
Diesel Range (Organics (DRO)	100	10	mg/Kg	1	5/29/2021 1:46:09	PM 6	50311
Motor Oil Rang	e Organics (MRO)	ND	50	mg/Kg	1	5/29/2021 1:46:09	PM 6	50311
Surr: DNOP		110	70-130	%Rec	1	5/29/2021 1:46:09	PM 6	50311
EPA METHOD	8260B: VOLATILES SHORT	LIST				Ana	alyst: J	JMR
Benzene		ND	0.049	mg/Kg	2	5/29/2021 10:56:32	2 AM 6	50310
Toluene		ND	0.098	mg/Kg	2	5/29/2021 10:56:32	2 AM 6	50310
Ethylbenzene		ND	0.098	mg/Kg	2	5/29/2021 10:56:32	2 AM 6	60310
Xylenes, Total		ND	0.20	mg/Kg	2	5/29/2021 10:56:32	2 AM 6	60310
Surr: 1,2-Dic	chloroethane-d4	83.3	70-130	%Rec	2	5/29/2021 10:56:32	2 AM 6	60310
Surr: 4-Brom	nofluorobenzene	90.9	70-130	%Rec	2	5/29/2021 10:56:32	2 AM 6	60310
Surr: Dibrom	ofluoromethane	104	70-130	%Rec	2	5/29/2021 10:56:32	2 AM 6	60310

70-130

96.3

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

Е Value above quantitation range

Analyte detected in the associated Method Blank

%Rec 2

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

в

Page 2 of 28

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Analytical Report Lab Order: 2105B47

Date Reported	6/10/2021

5/29/2021 11:25:06 AM 60310

5/29/2021 11:25:06 AM 60310

Hall Environmen	tal Analysis La	alysis Laboratory, Inc. Date Reported: 6/10/						21
CLIENT: GHD Project: Jackson	n B 17 Flowline 1			L	ab C	Order: 2	2105B47	
Lab ID: 2105	5B47-003		C	ollection Date	: 5/2	25/2021 10:00):00 AM	
Client Sample ID: A1-2	2 8'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual Units	DF	Date Analyz	zed B	atch ID
EPA METHOD 300.0: AM	NONS						Analys	: VP
Chloride		810	60	mg/Kg	20	6/2/2021 1:5	5:01 PM	60384
EPA METHOD 8015D M	OD: GASOLINE RANG	ε					Analys	: JMR
Gasoline Range Organics	(GRO)	ND	4.8	mg/Kg	1	5/29/2021 11	:25:06 AN	60310
Surr: BFB		102	70-130	%Rec	1	5/29/2021 11	:25:06 AN	60310
EPA METHOD 8015M/D	DIESEL RANGE ORC	SANICS					Analys	: SB
Diesel Range Organics (D	RO)	55	9.8	mg/Kg	1	5/29/2021 1:	56:26 PM	60311
Motor Oil Range Organics	(MRO)	ND	49	mg/Kg	1	5/29/2021 1:	56:26 PM	60311
Surr: DNOP		114	70-130	%Rec	1	5/29/2021 1:	56:26 PM	60311
EPA METHOD 8260B: V	OLATILES SHORT LI	ST					Analys	: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 11	:25:06 AN	60310
Toluene		ND	0.048	mg/Kg	1	5/29/2021 11	:25:06 AN	60310
Ethylbenzene		ND	0.048	mg/Kg	1	5/29/2021 11	:25:06 AN	60310
Xylenes, Total		ND	0.097	mg/Kg	1	5/29/2021 11	:25:06 AN	60310
Surr: 1,2-Dichloroethan		87.0	70-130	%Rec	1	5/29/2021 11		
Surr: 4-Bromofluoroben	zene	88.0	70-130	%Rec	1	5/29/2021 11	:25:06 AN	60310

106

97.8

70-130

70-130

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

Surr: Dibromofluoromethane

Surr: Toluene-d8

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

%Rec

%Rec

1

1

Р Sample pH Not In Range RL Reporting Limit

в

Page 3 of 28

Analytical Report Lab Order: 2105B47

Data Papartad	6/10/2021

5/29/2021 11:53:41 AM 60316

5/29/2021 11:53:41 AM 60316

Hall Environmental Analysis I	Laboratory, Inc.Date Reported: 6/10/2021					021
CLIENT:GHDProject:Jackson B 17 Flowline 1			L	ab O	order: 2105B4	7
Lab ID: 2105B47-004		Coll	ection Date	: 5/2	.5/2021 10:10:00 AN	N
Client Sample ID: A1-2 14'			Matrix	: SO	IL	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS					Analy	/st: VP
Chloride	460	60	mg/Kg	20	6/2/2021 2:07:26 PM	60384
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analy	/st: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 11:53:41 4	AM 60316
Surr: BFB	104	70-130	%Rec	1	5/29/2021 11:53:41 /	AM 60316
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analy	/st: SB
Diesel Range Organics (DRO)	40	9.7	mg/Kg	1	6/1/2021 10:58:11 AI	M 60318
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/1/2021 10:58:11 AI	M 60318
Surr: DNOP	127	70-130	%Rec	1	6/1/2021 10:58:11 AI	M 60318
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analy	/st: JMR
Benzene	ND	0.025	mg/Kg	1	5/29/2021 11:53:41 A	AM 60316
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	1	5/29/2021 11:53:41 /	AM 60316

108

96.8

70-130

70-130

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

Surr: Dibromofluoromethane

Surr: Toluene-d8

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

%Rec

%Rec

1

1

Р Sample pH Not In Range RL Reporting Limit

в

Page 4 of 28

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab C	Order: 2105B47	,
Lab ID:	2105B47-005		C	ollection Date	: 5/2	25/2021 10:20:00 AM	-
Client Sample ID	: A1-3 6'			Matrix	: SC	DIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed H	Batch ID
EPA METHOD 30	00.0: ANIONS					Analys	st: VP
Chloride		1500	60	mg/Kg	20	6/2/2021 2:19:50 PM	60384
EPA METHOD 80	015D MOD: GASOLINE RA	NGE				Analys	st: JMR
Gasoline Range (Organics (GRO)	6.3	4.9	mg/Kg	1	5/29/2021 3:13:57 PM	
Surr: BFB	3 ()	107	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
EPA METHOD 80	015M/D: DIESEL RANGE O	ORGANICS				Analys	st: SB
Diesel Range Org	anics (DRO)	340	19	mg/Kg	2	6/2/2021 4:11:46 PM	60318
Motor Oil Range (390	96	mg/Kg	2	6/2/2021 4:11:46 PM	60318
Surr: DNOP	c ()	96.3	70-130	%Rec	2	6/2/2021 4:11:46 PM	60318
EPA METHOD 82	260B: 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-Dichlo	proethane-d4	88.2	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
Surr: 4-Bromof	luorobenzene	88.7	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
Surr: Dibromof	luoromethane	107	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
Surr: Toluene-o	8	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.

*

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

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 5 of 28

Analytical Report Lab Order: 2105B47

Date Reported	6/10/2021

5/29/2021 4:39:44 PM

5/29/2021 4:39:44 PM

60316

60316

Hall Envir	onmental Analysis	Laboratory,	Inc.			Date Reported: 6/10		l
CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab C)rder: 2105	B47	
Lab ID:	2105B47-006		C	collection Date	: 5/2	25/2021 10:25:00	AM	
Client Sample	ID: A1-3 8'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Ba	atch ID
	300.0: ANIONS					An	alyst:	VP
Chloride		630	60	mg/Kg	20	6/2/2021 2:32:15 I	РΜ	60384
	8015D MOD: GASOLINE R	ANGE				An	alyst:	JMR
Gasoline Rang	ge Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 4:39:44	PM	60316
Surr: BFB		103	70-130	%Rec	1	5/29/2021 4:39:44	· PM	60316
	8015M/D: DIESEL RANGE	ORGANICS				An	alyst:	SB
Diesel Range	Organics (DRO)	ND	9.2	mg/Kg	1	6/1/2021 11:36:54	AM	60318
Motor Oil Rang	ge Organics (MRO)	ND	46	mg/Kg	1	6/1/2021 11:36:54	AM	60318
Surr: DNOP)	126	70-130	%Rec	1	6/1/2021 11:36:54	AM	60318
	8260B: VOLATILES SHOR	T LIST				An	alyst:	JMR
Benzene		ND	0.025	mg/Kg	1	5/29/2021 4:39:44	PM	60316
Toluene		ND	0.050	mg/Kg	1	5/29/2021 4:39:44	PM	60316
Ethylbenzene		ND	0.050	mg/Kg	1	5/29/2021 4:39:44	· PM	60316
Xylenes, Total		ND	0.10	mg/Kg	1	5/29/2021 4:39:44	PM	60316
,	chloroethane-d4	85.5	70-130	%Rec	1	5/29/2021 4:39:44		60316
Surr: 4-Bror	nofluorobenzene	95.1	70-130	%Rec	1	5/29/2021 4:39:44	· PM	60316

101

96.3

70-130

70-130

%Rec

%Rec

1

1

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

Surr: Dibromofluoromethane

Surr: Toluene-d8

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

в

Page 6 of 28

Hall Enviro	Lab Order: 2105B47 Date Reported: 6/10/2021					2021	
CLIENT:	GHD			L	ab C	Order: 2105B	47
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-007		С	ollection Date	: 5/2	25/2021 10:30:00 A	М
Client Sample I	D: A1-3 10'			Matrix	: SC	DIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD	300.0: ANIONS					Anal	yst: VP
Chloride		400	60	mg/Kg	20	6/2/2021 3:09:28 PM	M 60384
EPA METHOD	8015D MOD: GASOLINE RA	NGE				Anal	yst: JMR
Gasoline Range	e 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 F	PM 60316
EPA METHOD	8015M/D: DIESEL RANGE (ORGANICS				Anal	yst: SB
Diesel Range C	Organics (DRO)	ND	9.0	mg/Kg	1	6/1/2021 11:46:35 A	M 60318
Motor Oil Range	e Organics (MRO)	ND	45	mg/Kg	1	6/1/2021 11:46:35 A	M 60318
Surr: DNOP		126	70-130	%Rec	1	6/1/2021 11:46:35 A	M 60318
EPA METHOD	8260B: VOLATILES SHORT	LIST				Anal	yst: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 5:08:20 F	PM 60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 5:08:20 F	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	
Surr: 1,2-Dic	hloroethane-d4	80.2	70-130	%Rec	1	5/29/2021 5:08:20 F	PM 60316

97.0

102

94.7

70-130

70-130

70-130

%Rec

%Rec

%Rec

1

1

1

5/29/2021 5:08:20 PM

5/29/2021 5:08:20 PM

5/29/2021 5:08:20 PM

60316

60316

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

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- 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

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 7 of 28

Hall Environmental Analysis Laboratory Inc.

Analytical Report
Lab Order: 2105B47

Date Reported:	6/10/2021

5/29/2021 5:36:54 PM

5/29/2021 5:36:54 PM

60316

60316

man Environmental Analysis Laboratory, me					E	Date Reported: 6/10/2	021
CLIENT:	GHD			L	ab O	Order: 2105B4	7
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-008		Col	lection Date	: 5/2	25/2021 10:45:00 AN	Л
Client Sample	e ID: TP1-S			Matrix	: SO	OIL	
Analyses		Result	RL (Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Analy	vst: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 3:21:53 PM	60384
ΕΡΑ ΜΕΤΗΟ	D 8015D MOD: GASOLINE R	ANGE				Analy	vst: JMR
Gasoline Rar	nge 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 METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Analy	vst: SB
Diesel Range	e Organics (DRO)	ND	8.9	mg/Kg	1	6/1/2021 11:56:18 AI	M 60318
Motor Oil Ra	nge Organics (MRO)	ND	44	mg/Kg	1	6/1/2021 11:56:18 AI	M 60318
Surr: DNO	P	103	70-130	%Rec	1	6/1/2021 11:56:18 AI	M 60318
EPA METHO	D 8260B: VOLATILES SHOR	TLIST				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	e	ND	0.050	mg/Kg	1	5/29/2021 5:36:54 PI	M 60316
Xylenes, Tota		ND	0.10	mg/Kg	1	5/29/2021 5:36:54 PI	
,	Dichloroethane-d4	87.6	70-130	%Rec	1	5/29/2021 5:36:54 PI	
Surr: 4-Bro	omofluorobenzene	96.5	70-130	%Rec	1	5/29/2021 5:36:54 PI	M 60316

102

99.8

70-130

70-130

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

Surr: Dibromofluoromethane

Surr: Toluene-d8

- D Sample Diluted Due to MatrixH 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

E Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

%Rec

%Rec

1

1

- P Sample pH Not In Range
- RL Reporting Limit

в

Page 8 of 28

Analytical Report Lab Order: 2105B47

Date Reported	6/10/2021

Hall Environmental Analysis Laboratory, Inc.				Date Reported: 6/10/2021					
CLIENT: GHD Project: Jackson B 17 Flowline	l		L	ab O	Order: 2105B4	7			
Lab ID: 2105B47-009		Co	llection Date	: 5/2	25/2021 10:50:00 AN	N			
Client Sample ID: TP1-2			Matrix	: SO	IL				
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 3:34:18 PM	60384			
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analy	/st: JMR			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 6:05:29 PI	M 60316			
Surr: BFB	105	70-130	%Rec	1	5/29/2021 6:05:29 PI	M 60316			
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analy	/st: SB			
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	6/1/2021 12:06:01 PI	M 60318			
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	6/1/2021 12:06:01 PI	M 60318			
Surr: DNOP	106	70-130	%Rec	1	6/1/2021 12:06:01 PI	M 60318			
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analy	/st: JMR			
Benzene	ND	0.024	mg/Kg	1	5/29/2021 6:05:29 PI	M 60316			
Toluene	ND	0.049	mg/Kg	1	5/29/2021 6:05:29 PI	M 60316			
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 6:05:29 PI	M 60316			
Xylenes, Total	ND	0.098	mg/Kg	1	5/29/2021 6:05:29 PI	M 60316			
Surr: 1,2-Dichloroethane-d4	84.5	70-130	%Rec	1	5/29/2021 6:05:29 PI	M 60316			
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	5/29/2021 6:05:29 PI	M 60316			
Surr: Dibromofluoromethane	102	70-130	%Rec	1	5/29/2021 6:05:29 PI	M 60316			

97.9

70-130

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

Qualifiers:

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

Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank в Е Value above quantitation range

J Analyte detected below quantitation limits

%Rec

1

5/29/2021 6:05:29 PM

Р Sample pH Not In Range

RL Reporting Limit Page 9 of 28

60316

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

5/29/2021 6:34:02 PM

60316

Hall Environmental Analysis Laboratory, Inc.				Date Reported: 6/10/2021				
CLIENT:GHDProject:Jackson B 17 Flowline 1	1		L	ab O	rder: 2105B4	7		
Lab ID: 2105B47-010		Со	llection Date	: 5/2	5/2021 11:00:00 AN	M		
Client Sample ID: TP2-S		Matrix: SOIL						
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 3:46:42 PM	60384		
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analy	/st: JMR		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 6:34:02 P	M 60316		
Surr: BFB	103	70-130	%Rec	1	5/29/2021 6:34:02 P	M 60316		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analy	/st: JME		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/3/2021 6:40:03 PM	60318		
Motor Oil Range Organics (MRO)	52	48	mg/Kg	1	6/3/2021 6:40:03 PM	60318		
Surr: DNOP	113	70-130	%Rec	1	6/3/2021 6:40:03 PM	60318		
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analy	/st: JMR		
Benzene	ND	0.025	mg/Kg	1	5/29/2021 6:34:02 P	M 60316		
Toluene	ND	0.050	mg/Kg	1	5/29/2021 6:34:02 P	M 60316		
Ethylbenzene	ND	0.050	mg/Kg	1	5/29/2021 6:34:02 P	M 60316		
Xylenes, Total	ND	0.099	mg/Kg	1	5/29/2021 6:34:02 P	M 60316		
Surr: 1,2-Dichloroethane-d4	85.8	70-130	%Rec	1	5/29/2021 6:34:02 P	M 60316		
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	5/29/2021 6:34:02 P	M 60316		
Surr: Dibromofluoromethane	98.8	70-130	%Rec	1	5/29/2021 6:34:02 P	M 60316		

96.8

70-130

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

Qualifiers:

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

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

%Rec

1

- Р Sample pH Not In Range
- RL Reporting Limit

в

Page 10 of 28

GHD

CLIENT:

Analytical Report Lab Order: 2105B47

Date Reported: 6/10/2021

Lab Order:

2105B47

Project: Jackson B 17 Flowline	1							
Lab ID: 2105B47-011	2105B47-011 Collection Date: 5/25/2021 11:05:00 AM							
Client Sample ID: TP2-2		Matrix: SOIL						
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch I		
EPA METHOD 300.0: ANIONS					Ana	lyst: VP		
Chloride	ND	60	mg/Kg	20	6/2/2021 3:59:07 P	M 6038		
EPA METHOD 8015D MOD: GASOLINE	RANGE				Ana	lyst: JMF		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/29/2021 7:02:50	PM 6031		
Surr: BFB	106	70-130	%Rec	1	5/29/2021 7:02:50	PM 6031		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Ana	lyst: SB		
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	6/1/2021 12:25:28	PM 6031		
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/1/2021 12:25:28	PM 6031		
Surr: DNOP	117	70-130	%Rec	1	6/1/2021 12:25:28	PM 6031		
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Ana	lyst: JMF		
Benzene	ND	0.024	mg/Kg	1	5/29/2021 7:02:50	PM 6031		
Toluene	ND	0.048	mg/Kg	1	5/29/2021 7:02:50	PM 6031		
Ethylbenzene	ND	0.048	mg/Kg	1	5/29/2021 7:02:50	PM 6031		
Xylenes, Total	ND	0.097	mg/Kg	1	5/29/2021 7:02:50	PM 6031		
Surr: 1,2-Dichloroethane-d4	85.8	70-130	%Rec	1	5/29/2021 7:02:50	PM 6031		
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	1	5/29/2021 7:02:50	PM 6031		
Surr: Dibromofluoromethane	100	70-130	%Rec	1	5/29/2021 7:02:50	PM 6031		

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. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

в

Page 11 of 28

Analytical Report Lab Order: 2105B47

Date Reported: 6/10/2021

5/29/2021 7:31:26 PM 60316

CLIENT: GHI)			L	ab C	Order: 2105B	47
Project: Jack	son B 17 Flowline 1						
Lab ID: 2	105B47-012		С	ollection Date	: 5/2	25/2021 11:10:00 A	М
Client Sample ID: T	P3-S			Matrix	: SC	DIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0:	ANIONS					Ana	yst: VP
Chloride		ND	59	mg/Kg	20	6/2/2021 4:36:21 PM	M 60394
EPA METHOD 8015D	MOD: GASOLINE RAN	GE				Ana	yst: JMR
Gasoline Range Organ	ics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 7:31:26 F	PM 60316
Surr: BFB	. ,	106	70-130	%Rec	1	5/29/2021 7:31:26 F	PM 60316
EPA METHOD 8015M	I/D: DIESEL RANGE OR	GANICS				Ana	yst: SB
Diesel Range Organics	(DRO)	ND	9.9	mg/Kg	1	6/1/2021 12:35:13 F	M 60318
Motor Oil Range Orgar	nics (MRO)	ND	50	mg/Kg	1	6/1/2021 12:35:13 F	M 60318
Surr: DNOP		116	70-130	%Rec	1	6/1/2021 12:35:13 F	PM 60318
EPA METHOD 8260B	: VOLATILES SHORT L	IST				Ana	yst: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 7:31:26 F	PM 60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 7:31:26 F	M 60316
Ethylbenzene		ND	0.049	mg/Kg	1	5/29/2021 7:31:26 F	PM 60316
Xylenes, Total		ND	0.098	mg/Kg	1	5/29/2021 7:31:26 F	PM 60316
Surr: 1,2-Dichloroeth	nane-d4	89.7	70-130	%Rec	1	5/29/2021 7:31:26 F	PM 60316
Surr: 4-Bromofluorol	penzene	97.9	70-130	%Rec	1	5/29/2021 7:31:26 F	PM 60316
Surr: Dibromofluoror	nethane	106	70-130	%Rec	1	5/29/2021 7:31:26 F	M 60316

97.8

70-130

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

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

H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

%Rec 1

J Analyte detected below quantitation limits

Р Sample pH Not In Range

в

RL Reporting Limit

Page 12 of 28

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Analytical Report Lab Order: 2105B47

5/29/2021 7:59:58 PM

60316

Date Reported:	6/10/2021

Hall Environmental Analysis Laboratory, Inc.				Date Reported: 6/10/2021			
CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	.ab O	Order: 2105B4	17
Lab ID:	2105B47-013		C	ollection Date	: 5/2	25/2021 11:15:00 Al	М
Client Sample II	D: TP3-2	Matrix: SOIL					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHOD	300.0: ANIONS					Anal	yst: VP
Chloride		ND	59	mg/Kg	20	6/2/2021 4:48:45 PM	60394
EPA METHOD 8	3015D MOD: GASOLINE R	ANGE				Anal	yst: JMR
Gasoline Range	Organics (GRO)	ND	4.8	mg/Kg	1	5/29/2021 7:59:58 P	M 60316
Surr: BFB		108	70-130	%Rec	1	5/29/2021 7:59:58 P	M 60316
EPA METHOD 8	3015M/D: DIESEL RANGE	ORGANICS				Anal	yst: SB
Diesel Range O	rganics (DRO)	ND	8.8	mg/Kg	1	6/1/2021 12:44:58 P	M 60318
Motor Oil Range	Organics (MRO)	ND	44	mg/Kg	1	6/1/2021 12:44:58 P	M 60318
Surr: DNOP		100	70-130	%Rec	1	6/1/2021 12:44:58 P	M 60318
EPA METHOD 8	3260B: VOLATILES SHOR	T LIST				Anal	yst: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 7:59:58 P	M 60316
Toluene		ND	0.048	mg/Kg	1	5/29/2021 7:59:58 P	M 60316
Ethylbenzene		ND	0.048	mg/Kg	1	5/29/2021 7:59:58 P	M 60316
Xylenes, Total		ND	0.096	mg/Kg	1	5/29/2021 7:59:58 P	M 60316
Surr: 1,2-Dich	loroethane-d4	87.4	70-130	%Rec	1	5/29/2021 7:59:58 P	M 60316
Surr: 4-Bromo	ofluorobenzene	99.6	70-130	%Rec	1	5/29/2021 7:59:58 P	M 60316
Surr: Dibromo	ofluoromethane	103	70-130	%Rec	1	5/29/2021 7:59:58 P	M 60316

100

70-130

%Rec

1

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

Qualifiers:

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

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

в

Page 13 of 28

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

CLIENT:	GHD			L	.ab C	Order: 2105B4	47
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-014		C	ollection Date	: 5/2	25/2021 11:20:00 A	М
Client Sample	ID: TP4-S			Matrix	: SC	DIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
ΕΡΑ ΜΕΤΗΟΙ	D 300.0: ANIONS					Anal	yst: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 5:01:09 PM	60394
EPA METHO	D 8015D MOD: GASOLINE R	ANGE				Anal	yst: JMR
Gasoline Ran	ge Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 8:28:35 P	M 60316
Surr: BFB	,	106	70-130	%Rec	1	5/29/2021 8:28:35 P	M 60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Anal	yst: SB
Diesel Range	Organics (DRO)	ND	10	mg/Kg	1	6/1/2021 12:54:43 P	M 60318
Motor Oil Ran	ge Organics (MRO)	ND	50	mg/Kg	1	6/1/2021 12:54:43 P	M 60318
Surr: DNOF	D	109	70-130	%Rec	1	6/1/2021 12:54:43 P	M 60318
EPA METHO	0 8260B: VOLATILES SHOR	T LIST				Anal	yst: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 8:28:35 P	M 60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 8:28:35 P	M 60316
Ethylbenzene		ND	0.049	mg/Kg	1	5/29/2021 8:28:35 P	M 60316
Xylenes, Tota	l	ND	0.097	mg/Kg	1	5/29/2021 8:28:35 P	M 60316
Surr: 1,2-D	ichloroethane-d4	87.2	70-130	%Rec	1	5/29/2021 8:28:35 P	M 60316
Surr: 4-Bro	mofluorobenzene	95.7	70-130	%Rec	1	5/29/2021 8:28:35 P	M 60316
Surr: Dibro	mofluoromethane	99.8	70-130	%Rec	1	5/29/2021 8:28:35 P	M 60316
Surr: Tolue	ne-d8	95.5	70-130	%Rec	1	5/29/2021 8:28:35 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.

*

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

Value above quantitation range Е

Analyte detected in the associated Method Blank

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

В

Page 14 of 28

aur

Analytical Report

Lu		103047
D-	4 - D	. (10/2021

Date Reported:	6/10/2021

CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab O	Order: 21051	347	
Lab ID:	2105B47-015		Coll	lection Date	: 5/2	25/2021 11:25:00	AM	
Client Sample	e ID: TP4-2		Matrix: SOIL					
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	Ba	atch ID
EPA METHO	D 300.0: ANIONS					Ana	alyst	: VP
Chloride		ND	60	mg/Kg	20	6/4/2021 9:56:13 A	١M	60394
EPA METHO	D 8015D MOD: GASOLINE R	ANGE				Ana	alyst	JMR
Gasoline Rar	nge 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 METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	alyst	SB
Diesel Range	e Organics (DRO)	ND	9.5	mg/Kg	1	6/1/2021 1:04:31 F	۶M	60318
Motor Oil Rar	nge Organics (MRO)	ND	47	mg/Kg	1	6/1/2021 1:04:31 F	۶M	60318
Surr: DNO	Р	129	70-130	%Rec	1	6/1/2021 1:04:31 F	٩N	60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Ana	alyst	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	9	ND	0.050	mg/Kg	1	5/29/2021 8:57:13	PM	60316
Xylenes, Tota	al	ND	0.099	mg/Kg	1	5/29/2021 8:57:13	PM	60316
Surr: 1,2-D	Dichloroethane-d4	87.4	70-130	%Rec	1	5/29/2021 8:57:13	PM	60316
	omofluorobenzene	97.8	70-130	%Rec	1	5/29/2021 8:57:13		60316
Surr: Dibro	omofluoromethane	104	70-130	%Rec	1	5/29/2021 8:57:13	PM	60316

95.8

70-130

%Rec

1

5/29/2021 8:57:13 PM

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

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

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 15 of 28

60316

Client Sample ID: TP5-S

GHD

Jackson B 17 Flowline 1

2105B47-016

CLIENT:

Project:

Lab ID:

Analyses

ID

Analytical Report
Lab Order: 2105B47

Hall Environmental Analysis Laboratory, Inc.	Date Reported:	6/10/2021

Lab Order: 2105B47

Result	RL Qual Units DF Date Analyzed Batch
	Matrix: SOIL
	Collection Date: 5/25/2021 11:30:00 AM
	Lab Order: 2105B47

					• • •	
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	ND	60	mg/Kg	20	6/2/2021 5:50:48 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/29/2021 9:25:56 PM	60316
Surr: BFB	100	70-130	%Rec	1	5/29/2021 9:25:56 PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst:	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					Analyst:	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	60316
Ethylbenzene	ND	0.048	mg/Kg	1	5/29/2021 9:25:56 PM	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.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

E Value above quantitation range

Analyte detected in the associated Method Blank

- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

в

Page 16 of 28

Received by	OCD:	: 3/10/2022	9:25:05 AM
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

CLIENT:	GHD			T	ah ()	Prder: 2105B4	7
Project:	Jackson B 17 Flowline 1			-		21032	,
Lab ID:	2105B47-017		Col	llection Date	: 5/2	25/2021 11:35:00 AN	M
Client Sample	e ID: TP5-2			Matrix	: SO	IL	
Analyses		Result	RL (Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Analy	/st: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 6:03:12 PM	60394
EPA METHO	D 8015D MOD: GASOLINE R	RANGE				Analy	/st: JMR
Gasoline Ran	ge Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 9:54:27 P	M 60316
Surr: BFB		102	70-130	%Rec	1	5/29/2021 9:54:27 PM	M 60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Analy	/st: SB
Diesel Range	Organics (DRO)	ND	9.9	mg/Kg	1	6/1/2021 1:24:07 PM	60318
Motor Oil Ran	nge Organics (MRO)	ND	50	mg/Kg	1	6/1/2021 1:24:07 PM	60318
Surr: DNO	P	121	70-130	%Rec	1	6/1/2021 1:24:07 PM	60318
EPA METHO	D 8260B: VOLATILES SHOR					Analy	/st: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 9:54:27 PI	M 60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 9:54:27 PI	M 60316
Ethylbenzene	9	ND	0.049	mg/Kg	1	5/29/2021 9:54:27 PM	M 60316
Xylenes, Tota	al	ND	0.097	mg/Kg	1	5/29/2021 9:54:27 PM	M 60316
Surr: 1,2-D	ichloroethane-d4	80.9	70-130	%Rec	1	5/29/2021 9:54:27 PM	M 60316
Surr: 4-Bro	mofluorobenzene	97.8	70-130	%Rec	1	5/29/2021 9:54:27 PM	M 60316
Surr: Dibro	mofluoromethane	102	70-130	%Rec	1	5/29/2021 9:54:27 PM	M 60316
Surr: Tolue	ene-d8	97.7	70-130	%Rec	1	5/29/2021 9:54:27 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. 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
- % Recovery outside of range due to dilution or matrix S

Value above quantitation range Е

Analyte detected in the associated Method Blank

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

в

Page 17 of 28

Received by	OCD:	3/10/2022	9:25:05 AM
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Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

%Rec 1 5/29/2021 10:22:57 PM 60316

Hall Environmental Analysis Laboratory, Inc.					ate Reported: 6/10/2	2021
CLIENT:GHDProject:Jackson B 17 Flowline	1		L	ab O	order: 2105B	47
Lab ID: 2105B47-018		Co	llection Date	: 5/2	5/2021 11:40:00 A	М
Client Sample ID: TP6-S			Matrix	: SO	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 6:15:36 PM	M 60394
EPA METHOD 8015D MOD: GASOLINE	RANGE				Ana	lyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 10:22:57	PM 60316
Surr: BFB	103	70-130	%Rec	1	5/29/2021 10:22:57	PM 60316
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Ana	lyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/1/2021 1:33:58 PM	M 60318
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/1/2021 1:33:58 PM	M 60318
Surr: DNOP	120	70-130	%Rec	1	6/1/2021 1:33:58 PM	M 60318
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Ana	lyst: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 10:22:57	PM 60316
Toluene	ND	0.049	mg/Kg	1	5/29/2021 10:22:57	PM 60316
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 10:22:57	PM 60316
Xylenes, Total	ND	0.097	mg/Kg	1	5/29/2021 10:22:57	PM 60316
Surr: 1,2-Dichloroethane-d4	85.7	70-130	%Rec	1	5/29/2021 10:22:57	PM 60316
Surr: 4-Bromofluorobenzene	96.1	70-130	%Rec	1	5/29/2021 10:22:57	PM 60316
Surr: Dibromofluoromethane	103	70-130	%Rec	1	5/29/2021 10:22:57	PM 60316

97.6

70-130

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

Value above quantitation range Е

Analyte detected in the associated Method Blank

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

в

Page 18 of 28

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Received by	OCD:	: 3/10/2022	9:25:05 AM
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Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

Date Reported.	0/10/2021

CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab O	Order: 2105E	347	
-								
Lab ID:	2105B47-019		Coll	ection Date	: 5/2	25/2021 11:45:00 A	ΑM	
Client Sample	e ID: TP6-2			Matrix	: SO	DIL		
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Bat	tch ID
EPA METHO	D 300.0: ANIONS					Ana	alyst:	VP
Chloride		ND	60	mg/Kg	20	6/2/2021 6:28:01 P	M	60394
EPA METHO	D 8015D MOD: GASOLINE R	ANGE				Ana	alyst:	JMR
Gasoline Rai	nge Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 10:51:28	3 PM	60316
Surr: BFB		102	70-130	%Rec	1	5/29/2021 10:51:28	3 PM	60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	alyst:	SB
Diesel Range	e Organics (DRO)	ND	9.6	mg/Kg	1	6/1/2021 1:43:50 P	M	60318
Motor Oil Ra	nge Organics (MRO)	ND	48	mg/Kg	1	6/1/2021 1:43:50 P	M	60318
Surr: DNO	P	101	70-130	%Rec	1	6/1/2021 1:43:50 P	M	60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Ana	alyst:	JMR
Benzene		ND	0.025	mg/Kg	1	5/29/2021 10:51:28	3 PM	60316
Toluene		ND	0.050	mg/Kg	1	5/29/2021 10:51:28	3 PM	60316
Ethylbenzene	e	ND	0.050	mg/Kg	1	5/29/2021 10:51:28	3 PM	60316
Xylenes, Tota	al	ND	0.099	mg/Kg	1	5/29/2021 10:51:28	3 PM	60316
Surr: 1,2-E	Dichloroethane-d4	85.1	70-130	%Rec	1	5/29/2021 10:51:28	3 PM	60316
Surr: 4-Bro	omofluorobenzene	97.4	70-130	%Rec	1	5/29/2021 10:51:28	3 PM	60316

100

96.6

70-130

70-130

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

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

Surr: Dibromofluoromethane

Surr: Toluene-d8

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Е Value above quantitation range

Analyte detected in the associated Method Blank

%Rec 1

%Rec 1

5/29/2021 10:51:28 PM 60316

5/29/2021 10:51:28 PM 60316

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

в

Page 19 of 28

Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

CLIENT:	GHD			L	ab O	rder: 2105E	347	
	Jackson B 17 Flowline 1			2		21031		
Lab ID:	2105B47-020		Col	lection Date	: 5/2	5/2021 11:50:00 A	AM	
Client Sample ID:	TP7-S			Matrix	: SO	IL		
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD 30	0.0: ANIONS					Ana	alyst:	VP
Chloride		ND	60	mg/Kg	20	6/2/2021 6:40:25 P	М	60394
EPA METHOD 80	15D MOD: GASOLINE RAN	GE				Ana	alyst:	JMR
Gasoline Range O	rganics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 11:20:01	I PM	60316
Surr: BFB		102	70-130	%Rec	1	5/29/2021 11:20:01	I PM	60316
EPA METHOD 80	15M/D: DIESEL RANGE OR	GANICS				Ana	alyst:	том
Diesel Range Orga	anics (DRO)	ND	9.8	mg/Kg	1	6/4/2021 1:07:50 P	M	60318
Motor Oil Range C	Organics (MRO)	ND	49	mg/Kg	1	6/4/2021 1:07:50 P	М	60318
Surr: DNOP		83.0	70-130	%Rec	1	6/4/2021 1:07:50 P	М	60318
EPA METHOD 82	60B: VOLATILES SHORT L	IST				Ana	alyst:	JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 11:20:01	I PM	60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 11:20:01	I PM	60316
Ethylbenzene		ND	0.049	mg/Kg	1	5/29/2021 11:20:01	I PM	60316
Xylenes, Total		ND	0.098	mg/Kg	1	5/29/2021 11:20:01	I PM	60316
Surr: 1,2-Dichlo	roethane-d4	87.7	70-130	%Rec	1	5/29/2021 11:20:01	I PM	60316
Surr: 4-Bromofle	uorobenzene	93.4	70-130	%Rec	1	5/29/2021 11:20:01	I PM	60316
Surr: Dibromoflu	uoromethane	101	70-130	%Rec	1	5/29/2021 11:20:01	I PM	60316
Surr: Toluene-d	8	94.5	70-130	%Rec	1	5/29/2021 11:20:01	I 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
 - % Recovery outside of range due to dilution or matrix s

Е Value above quantitation range

Analyte detected in the associated Method Blank

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

в

Page 20 of 28

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Received by	OCD:	: 3/10/2022	9:25:05 AM
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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order: 2105B47

D	D	 < 14 0 10 0 0

5/29/2021 11:48:37 PM 60316

5/29/2021 11:48:37 PM 60316

Date Reported: $6/10/2021$

CLIENT:	GHD			L	ab O	order: 2105E	47
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-021		Colle	ection Date	: 5/2	25/2021 11:55:00 A	M
Client Sample	e ID: TP7-2			Matrix	: SO	OIL	
Analyses		Result	RL Qu	ual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Ana	llyst: VP
Chloride		ND	59	mg/Kg	20	6/2/2021 6:52:50 P	M 60394
EPA METHO	D 8015D MOD: GASOLINE R	ANGE				Ana	lyst: JMR
Gasoline Ra	nge Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 11:48:37	PM 60316
Surr: BFB		105	70-130	%Rec	1	5/29/2021 11:48:37	PM 60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	lyst: SB
Diesel Range	e Organics (DRO)	ND	9.8	mg/Kg	1	6/2/2021 1:24:14 P	M 60318
Motor Oil Ra	nge Organics (MRO)	ND	49	mg/Kg	1	6/2/2021 1:24:14 P	M 60318
Surr: DNC)P	92.2	70-130	%Rec	1	6/2/2021 1:24:14 P	M 60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Ana	lyst: JMR
Benzene		ND	0.025	mg/Kg	1	5/29/2021 11:48:37	PM 60316
Toluene		ND	0.050	mg/Kg	1	5/29/2021 11:48:37	PM 60316
Ethylbenzen	e	ND	0.050	mg/Kg	1	5/29/2021 11:48:37	PM 60316
Xylenes, Tot	al	ND	0.099	mg/Kg	1	5/29/2021 11:48:37	PM 60316
Surr: 1,2-[Dichloroethane-d4	85.5	70-130	%Rec	1	5/29/2021 11:48:37	PM 60316
Surr: 4-Bro	omofluorobenzene	101	70-130	%Rec	1	5/29/2021 11:48:37	PM 60316

98.7

98.0

70-130

70-130

%Rec

%Rec

1

1

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

Surr: Dibromofluoromethane

Surr: Toluene-d8

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

E Value above quantitation range

Analyte detected in the associated Method Blank

- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

в

Page 21 of 28

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2105B47

10-Jun-21

Client:	GHD									
Project:	Jackson	B 17 Flowline 1								
Sample ID:	MB-60384	SampType: M	IBLK	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch ID: 6	0384	F	RunNo: 78	3792				
Prep Date:	6/2/2021	Analysis Date: 6	6/2/2021	S	SeqNo: 27	764168	Units: mg/K	g		
Analyte Chloride		Result PQL ND 1.5		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-60384	SampType: L	cs	Tes	tCode: EF	PA Method	300.0: Anion:	S		
Client ID:	LCSS	Batch ID: 6	0384	F	RunNo: 78	3792				
Prep Date:	6/2/2021	Analysis Date: 6	6/2/2021	S	SeqNo: 27	764169	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ohle Ste		4.4 4.5	45.00	0	04.0	00	110			
Chloride		14 1.5	5 15.00	0	94.8	90	110			
Sample ID:	MB-60394	SampType: M		-			300.0: Anion:	5		
Sample ID:	MB-60394 PBS		IBLK	Tes		PA Method		S		
Sample ID:	PBS	SampType: M	IBLK 0394	Tes	tCode: EF	PA Method 3792				
Sample ID: Client ID:	PBS	SampType: M Batch ID: 6	IBLK 0394 6/2/2021	Tes	tCode: EF RunNo: 78 SeqNo: 27	PA Method 3792	300.0: Anion		RPDLimit	Qual
Sample ID: Client ID: Prep Date:	PBS	SampType: M Batch ID: 6 Analysis Date: 6	IBLK 0394 5/2/2021 SPK value	Tes F	tCode: EF RunNo: 78 SeqNo: 27	PA Method 3792 764200	300.0: Anion: Units: mg/K	g	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Chloride	PBS	SampType: M Batch ID: 6 Analysis Date: 6 Result PQL	IBLK 0394 5/2/2021 SPK value	Tes F S SPK Ref Val	tCode: EF RunNo: 78 SeqNo: 27 %REC	PA Method 3792 764200 LowLimit	300.0: Anion: Units: mg/K	g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID:	PBS 6/2/2021	SampType: M Batch ID: 6 Analysis Date: 6 Result PQL ND 1.5	IBLK 0394 5/2/2021 SPK value 5 CS	Tes F SPK Ref Val Tes	tCode: EF RunNo: 78 SeqNo: 27 %REC	PA Method 8792 764200 LowLimit PA Method	300.0: Anions Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID:	PBS 6/2/2021 LCS-60394 LCSS	SampType: M Batch ID: 6 Analysis Date: 6 Result PQL ND 1.5 SampType: L	BLK 0394 5/2/2021 SPK value 5 CS 0394	Tes F SPK Ref Val Tes F	tCode: EF RunNo: 78 SeqNo: 27 %REC tCode: EF	PA Method 3792 764200 LowLimit PA Method 3792	300.0: Anions Units: mg/K HighLimit	g %RPD s	RPDLimit	Qual
Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID: Client ID:	PBS 6/2/2021 LCS-60394 LCSS	SampType: M Batch ID: 6 Analysis Date: 6 Result PQL ND 1.5 SampType: L Batch ID: 6	IBLK 0394 5/2/2021 SPK value 5 CS 0394 5/2/2021	Tes F SPK Ref Val Tes F	tCode: EF RunNo: 78 SeqNo: 27 %REC tCode: EF RunNo: 78	PA Method 3792 764200 LowLimit PA Method 3792	300.0: Anion: Units: mg/K HighLimit 300.0: Anion:	g %RPD s	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 22 of 28

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page 70 of 143	Page	70	of	` <i>143</i>
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WO#:	2105	5B47
	10 1	

10-Jun-21

Client: GHD Project: Jackson	B 17 Flowline 1								
Sample ID: LCS-60311	SampType: L	cs	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 6	0311	F	RunNo: 78	8762				
Prep Date: 5/28/2021	Analysis Date:	6/29/2021	S	SeqNo: 27	761235	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	64 10 6.2	50.00 5.000	0	128 124	68.9 70	141 130			
Sample ID: MB-60311	SampType: N	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch ID: 6	0311	F	RunNo: 78	8762				
Prep Date: 5/28/2021	Analysis Date:	5/29/2021	S	SeqNo: 27	761240	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	ND 10 ND 50)							
Surr: DNOP	11	10.00		107	70	130			
Sample ID: 2105B47-004AMS	SampType: N	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: A1-2 14'	Batch ID: 6	0318	F	RunNo: 78	8780				
Prep Date: 5/28/2021	Analysis Date: 6	6/1/2021	S	SeqNo: 27	762478	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO) Surr: DNOP	70 9.5 5.0	6 47.35 4.735	39.63	63.1 106	15 70	184 130			
Sample ID: 2105B47-004AMS	SD SampType: N	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: A1-2 14'	Batch ID: 6	0318	F	RunNo: 78	8780				
Prep Date: 5/28/2021	Analysis Date: 6	6/1/2021	S	SeqNo: 27	762479	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	72 9.3	46.64	39.63	68.4	15	184	3.00	23.9	
Surr: DNOP	5.5	4.664		117	70	130	0	0	
Sample ID: LCS-60318	SampType: L	cs	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 6	0318	F	RunNo: 78	8780				
Prep Date: 5/28/2021	Analysis Date: 6	6/1/2021	5	SeqNo: 27	762508	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55 10		0	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
- 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 23 of 28

1 uge / 1 0j 140	Page	71	of	143
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L.	ironmental Analysis Laboratory, Inc.	WO#: 2105B47 10-Jun-21
Client:	GHD	
Project:	Jackson B 17 Flowline 1	

3										
Sample ID: MB-60318	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 60	318	F	RunNo: 7	8780				
Prep Date: 5/28/2021	Analysis D)ate: 6/	1/2021	S	SeqNo: 2	762510	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		113	70	130			

Qualifiers:

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

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

Page 24 of 28

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page 72 of 143

WO#: 2105B47

10-Jun-21

Client: GHD										
Project: Jackson	B 17 Flowline	1								
Sample ID: Ics-60310	SampType:			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batch ID:	60310	F	RunNo: 78	3775					
Prep Date: 5/27/2021	Analysis Date:	5/28/2021	5	SeqNo: 27	761812	Units: mg/K	g			
Analyte	Result P0	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1 0.0	1.000	0	109	80	120				
Toluene	0.98 0.0	1.000	0	97.6	80	120				
Ethylbenzene	1.0 0.0	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	TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: LCSS	Batch ID: 60316			RunNo: 78775						
Prep Date: 5/27/2021	Analysis Date:	5/29/2021	S	SeqNo: 27	761813	Units: mg/K	g			
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1 0.0	1.000	0	106	70	130				
Toluene	0.97 0.0	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	SampType:	MBLK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List		
Client ID: PBS	Batch ID:	60310	F	RunNo: 78	3775					
Prep Date: 5/27/2021	Analysis Date:	5/28/2021	5	SeqNo: 27	761814	Units: mg/K	g			
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND 0.0)25								
Toluene	ND 0.0)50								
Ethylbenzene	ND 0.0)50								
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	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List		
Client ID: PBS	Batch ID:	60316	F	RunNo: 78	3775					
Prep Date: 5/27/2021	Analysis Date:	5/29/2021	S	SeqNo: 27	761815	Units: mg/K	g			
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Qualifiars										

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2105B47
	10 7 21

10-Jun-21

Project: Jackson H											
-	3 1 / Flow	line 1									
Sample ID: mb-60316	Samp	Гуре: МЕ	BLK	Test	tCode: EF	PA Method	8260B: Volat	iles Short	List		
Client ID: PBS	Batc	h ID: 60	316	RunNo: 78775							
Prep Date: 5/27/2021	Analysis [Date: 5/	29/2021	S	eqNo: 2	761815	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	0.43		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	Samp	Гуре: МS	64	Test	tCode: EF	PA Method	8260B: Volat	iles Short	List		
Client ID: A1-3 6'	Batc	h ID: 60	316	R							
Prep Date: 5/27/2021	Analysis [Date: 5/	29/2021	S	eqNo: 2	761840	Units: mg/K	g			
Analyte	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.024	0.9775	0	112	73.5	138				
Toluene	1.1	0.049	0.9775	0	111	83	131				
Ethylbenzene	1.1	0.049	0.9775	0.03682	109	84.9	132				
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	70	130				
Sample ID: 2105b47-005amsd	I Samp	Гуре: МS	SD4	Test	tCode: EF	PA Method	8260B: Volat	iles Short	List		
Client ID: A1-3 6'	Batc	h ID: 603	316	R	RunNo: 78	8775					
Prep Date: 5/27/2021	Analysis [Date: 5/	29/2021	S	eqNo: 2	761841	Units: mg/K	g			
Analyte	Result	PQL		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:

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- 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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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page	74	of 143	
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WO#:	2105	B47
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10-Jun-21

Client: GHD Project: Jackson H	3 17 Flowline 1								
Sample ID: Ics-60310	SampType: LC	S	Test	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch ID: 60	310	F	RunNo: 78					
Prep Date: 5/27/2021	Analysis Date: 5/	28/2021	S	eqNo: 27	761980	Units: mg/k	٢g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	23 5.0 500	25.00 500.0	0	92.2 101	70 70	130 130			
Sample ID: Ics-60316	ample ID: Ics-60316 SampType: LCS				PA Method	8015D Mod:	Gasoline I	Range	
Client ID: LCSS	Batch ID: 60	316	R	RunNo: 78	3775				
Prep Date: 5/27/2021	Analysis Date: 5/	29/2021	S	eqNo: 27	761981	Units: mg/k	٢g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22 5.0	25.00	0	86.4	70	130			
Surr: BFB	500	500.0		101	70	130			
Sample ID: mb-60310	SampType: M	BLK	Test	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Batch ID: 60	310	R	RunNo: 78	3775				
Prep Date: 5/27/2021	Analysis Date: 5/	28/2021	S	eqNo: 27	761983	Units: mg/k	٢g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	520	500.0		103	70	130			
Sample ID: mb-60316	SampType: M	BLK	Test	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: PBS	Batch ID: 60	316	F	RunNo: 78775					
Prep Date: 5/27/2021	Analysis Date: 5/	29/2021	S	eqNo: 27	761984	Units: mg/k	٢g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 500	500.0		99.6	70	130			
Sample ID: 2105b47-004ams	SampType: M \$	3	Test	tCode: EF	A Method	8015D Mod:	Gasoline I	Range	
Client ID: A1-2 14'	Batch ID: 60		R	RunNo: 78	3775			-	
Prep Date: 5/27/2021	Analysis Date: 5/	29/2021	S	eqNo: 27	62003	Units: mg/k	٤g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 4.9	24.56	0	91.8	64.4	124			
Surr: BFB	490	491.2		100	70	130			
Sample ID: 2105b47-004amsc	SampType: MS	SD	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: A1-2 14'	Batch ID: 60	316	R	RunNo: 78	3775				
Prep Date: 5/27/2021	Analysis Date: 5/	29/2021	S	eqNo: 27	762004	Units: mg/k	٤g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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- 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

.

	WO#:	2105B47
Hall Environmental Analysis Laboratory, Inc.		10-Jun-21

Client:	GHD		
Project:	Jackson B	17 Flowline 1	
Sample ID: 210	5b47-004amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: A1-	2 14'	Batch ID: 60316	RunNo: 78775

Client ID: A1-2 14'	Batch ID: 60316			F	RunNo: 7	8775					
Prep Date: 5/27/2021	Analysis Date: 5/29/2021			S	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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 28 of 28

HALL ENVIRONMENTAL ANALYSIS LABORATORY			TE	ll Environment Ai L: 505-345-39 Jebsite: clients.	49 Ibuquer 75 FAX	01 Hawk que, NM : 505-34.	rins NE 87109 5-4107	Sai	Sample Log-In Check List				
Client Name:	GHD		Work	Order Numbe	er: 210	5B47			RcptNo: 1				
Received By:	Juan Roja	IS	5/27/20	021 7:40:00 A	м		Hun	nay					
Completed By:	Cheyenne	Cason	5/27/20	21 8:35:30 A	М		Ches	nay L					
Reviewed By:													
Chain of Cus	<u>tody</u>												
1. Is Chain of C	ustody comp	lete?			Yes		N	•	Not Present				
2. How was the	sample deliv	ered?			Cou	rier							
Log In													
3. Was an attern	pt made to c	ool the samp	les?		Yes		N	b					
4. Were all samp	oles received	at a tempera	ture of >0° C	to 6.0°C	Yes		N	D					
5. Sample(s) in	oroper contai	ner(s)?			Yes	~	No						
6. Sufficient sam	ple volume fo	or indicated te	est(s)?		Yes	~	No						
7. Are samples (except VOA a	and ONG) pro	perly preserve	ed?	Yes		No						
8. Was preserva	tive added to	bottles?			Yes		No		NA 🗌				
9. Received at le	ast 1 vial with	headspace	<1/4" for AQ \	OA?	Yes		No		NA 🔽				
10. Were any san	ple containe	rs received b	roken?		Yes		No						
	1.04.5	Contra 1				_			# of preserved bottles checked				
11. Does paperwo (Note discrepa			S		Yes		No		for pH: (<2 or >12 unless noted)				
12. Are matrices o					Yes		No		Adjusted?				
13. Is it clear what			a state of the second second		Yes		No	_					
14. Were all holdir	ng times able	to be met?			Yes		No		checked by: SPA 5.27.2				
(If no, notify cu													
Special Handli 15. Was client no	1000		with this order	,	Yes		No		NA 🔽				
Person		screpancies v	an this order		res		INC						
By Who				Date:									
Regardi				Via:	eM		Phone [Fax	In Person				
	structions:												
16. Additional rer	narks:												
17. Cooler Inform	mation												
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву					
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Page 1 of 1

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Client: Chain- Client: Chi Mailing Address: Z4 W. Mah. S Phone #: (50	email or Fax#: QA/QC Package: Calandard Accreditation Calandard Accreditation Calandard Calandard Calandard Accreditation Calandard Accreditation Calandard Accreditation Calandard Accreditation Calandard Calandard Accreditation Calandard Caland		05252021									-		lf n
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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

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: GHD Midland

Project:

Analytical Report Lab Order 2107C48

Hall Environmental Analysis Laboratory, Inc.

Jackson B 17 Flowline Area 1

Date Reported: 8/4/2021

Client Sample ID: Al-1 25' Collection Date: 7/22/2021 2:10:00 PM Received Date: 7/24/2021 7:48:00 AM

Lab ID: 2107C48-001	Matrix: SOIL		Received Dat	e: 7/2	24/2021 7:48:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: VP
Chloride	180	60	mg/Kg	20	7/30/2021 4:08:09 AM	61662
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: 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 RAN	GE				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/29/2021 10:55:09 AN	1 61570
Surr: BFB	107	70-130	%Rec	1	7/29/2021 10:55:09 AN	1 61570
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.025	mg/Kg	1	7/29/2021 10:55:09 AN	1 61570
Toluene	ND	0.049	mg/Kg	1	7/29/2021 10:55:09 AN	1 61570
Ethylbenzene	ND	0.049	mg/Kg	1	7/29/2021 10:55:09 AN	1 61570
Xylenes, Total	ND	0.098	mg/Kg	1	7/29/2021 10:55:09 AN	1 61570
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	7/29/2021 10:55:09 AN	1 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 1 of 7

Analytical Report Lab Order 2107C48

7/29/2021 11:18:40 AM 61570

Hall Environmental Analysis Laboratory, Inc.

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

CLIENT: GHD Midland		Clie	ent Sample II): 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	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 RANGI	E ORGANICS				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 RANG	θE				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				

ND

ND

ND

ND

101

0.024

0.047

0.047

0.095

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

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

Qualifiers:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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

Page 2 of 7

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2107C48

Date Reported: 8/4/2021

7/29/2021 11:42:09 AM 61570

7/29/2021 11:42:09 AM 61570

7/29/2021 11:42:09 AM 61570

CLIENT: GHD Midland		Clier	nt Sample II	D: 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	R	eceived Dat	e: 7/2	24/2021 7:48:00 AM			
Analyses	Result	RL Q	ual 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	ORGANICS				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 RANG	E				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		

ND

ND

100

0.049

0.099

70-130

mg/Kg 1

mg/Kg 1

1

%Rec

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

Qualifiers:

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

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

Page 3 of 7

	Midland on 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 Qu	ıal
Chloride	ND 1.5				
Sample ID: LCS-61662	SampType: LCS	TestCode: EPA Method	300.0: Anions		
Client ID: LCSS	Batch ID: 61662	RunNo: 80187	30187		
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 Qu	ıal
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

2107C48

04-Aug-21

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2107C48	
Laboratory, Inc.		04-Aug-21	

Client: GHD Mi Project: Jackson J	idland 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) Surr: DNOP	ND 50 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	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	53 10 50.00 0 106 68.9 141
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

Page 5 of 7

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	GHD Midland									
Project:	Jackson B 17 Flowl	ine Are	a 1							
Sample ID: Ics-615	70 SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 61	70 RunNo: 80156							
Prep Date: 7/26/2	021 Analysis D)ate: 7/	28/2021	S	SeqNo: 2	822398	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	s (GRO) 25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1200		1000		120	70	130			
Sample ID: mb-615	o-61570 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range									
Client ID: PBS	Batch	n ID: 61	570	F	RunNo: 8	0156				
Prep Date: 7/26/2	021 Analysis D)ate: 7/	29/2021	S	SeqNo: 2	822400	Units: mg/K	g		
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 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 6 of 7

2107C48

04-Aug-21

WO#:

GHD Midland

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Jackson B 17 Flowline Area 1

Sample ID: LCS-61570	SampT	- ype: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	n ID: 61	570	F	RunNo: 8	0156				
Prep Date: 7/26/2021	Analysis D	Date: 7/	28/2021	5	SeqNo: 2	822450	Units: mg/K	g		
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	8021B: Volat	iles		
Sample ID: mb-61570 Client ID: PBS		ype: ME 1 ID: 61			tCode: El RunNo: 8		8021B: Volat	iles		
		n ID: 61	570	F		0156	8021B: Volat Units: mg/K			
Client ID: PBS	Batcl	n ID: 61	570 29/2021	F	RunNo: 8 GeqNo: 2	0156			RPDLimit	Qual
Client ID: PBS Prep Date: 7/26/2021	Batcl Analysis D	n ID: 61 : Date: 7/	570 29/2021	F	RunNo: 8 GeqNo: 2	0156 822452	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 7/26/2021 Analyte	Batcl Analysis D Result	n ID: 61; Date: 7/ PQL	570 29/2021	F	RunNo: 8 GeqNo: 2	0156 822452	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 7/26/2021 Analyte Benzene	Batcl Analysis E Result ND	n ID: 61! Date: 7/2 PQL 0.025	570 29/2021	F	RunNo: 8 GeqNo: 2	0156 822452	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 7/26/2021 Analyte Benzene Toluene	Batcl Analysis E Result ND ND	n ID: 61 Date: 7/ PQL 0.025 0.050	570 29/2021	F	RunNo: 8 GeqNo: 2	0156 822452	Units: mg/K	g	RPDLimit	Qual

Qualifiers:

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J
- Р Sample pH Not In Range

- Analyte detected below quantitation limits
- RL Reporting Limit

WO#: 2107C48

04-Aug-21

ANALYSIS LABORATORY		Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com					Page 8			
Client Name: GHD Midla	and	Work Order	Number: 210	07C48			RcptNo: 1			
Received By: Cheyenn	e Cason	7/24/2021 7:4	8:00 AM		Chem	ı				
Completed By: Cheyenne	e Cason	7/24/2021 8:1	6:30 AM		Chem Chem	1				
	7.24	SI			Labora					
Chain of Custody										
1. Is Chain of Custody comp	olete?		Yes		No		Not Present			
2. How was the sample deliv	vered?		Cou	urier						
Law In										
Log In 3. Was an attempt made to a	cool the complex?			V						
er mae an allempt made to	coor the samples?		res		140		NA 🗌			
4. Were all samples received	l at a temperature	of >0° C to 6.0°	C Yes	~	No					
5. Sample(s) in proper conta	iner(s)?		Yes		No					
6. Sufficient sample volume f	or indicated test(s)	2	Yes		No	Π				
7. Are samples (except VOA			Yes		No					
8. Was preservative added to			Yes		No	V				
9. Received at least 1 vial wit	h headspace <1/4	for AQ VOA?	Yes		No		NA 🗹			
10. Were any sample containe			Yes	-		V				
							# of preserved bottles checked			
11. Does paperwork match bo			Yes		No		for pH:			
(Note discrepancies on cha 2. Are matrices correctly iden	그는 그는 것은 것을 줄 수가 없다.	Quata du Q			ns		(<2 or >12 unless noted) Adjusted?			
3. Is it clear what analyses we		Justody?	Yes Yes		No No		, lighted :			
14. Were all holding times able			Yes		No	100	Checked by: Cu 7/24/4			
(If no, notify customer for a			100				1			
Special Handling (if app	licable)									
15. Was client notified of all di		his order?	Yes		No		NA 🔽			
Person Notified:			Date:							
By Whom:			/ia: □ eM	ail 🗔	Phone	Fax	In Person			
Regarding:						I dx				
Client Instructions:	-									
16. Additional remarks:										
17. Cooler Information										
Cooler No Temp °C	Condition Se	al Intact Seal I	No Seal D	ate	Signed I	By				
1 2.4	Good		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10. 0 . 10. 1					

.

Page 1 of 1

Released to Imaging: 12/22/2023 4:19:26 PM

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

)

Page 89 of 143

Incident ID	nAPP2111044488
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377				
Contact Name Chase Settle	Contact Telephone 575-748-1471				
Contact email Chase_Settle@eogresources.com	Incident # (assigned by OCD)				
Contact mailing address 104 S. 4th Street, Artesia, NM 88210					

Location of Release Source

Latitude 32.85807

Longitude -103.93198

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Jackson B #17	Site Type Well
Date Release Discovered 04/19/2021	API# (if applicable) 30-015-04039

Unit Letter	Section	Township	Range	County
М	1	17S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	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 impacts discovered during the P&A of the well. Release volume and date are unknown.

Page	2
1 uge	_

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🔽 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \checkmark The source of the release has been stopped.

 \checkmark The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 \checkmark All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

Signature: Chan Settle

Title:	Rep	Safety	&	Environmental Sr
--------	-----	--------	---	------------------

_{email:} Chase_Settle@eogresources.com

OCD Only

Received by:

Date:

Date: 04/19/2021

Telephone: 575-748-1471

Received by OCD: 3/10/2022 9:25:05 AM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 91 of 1 4	43
Incident ID	nAPP211104488	
District RP		
Facility ID		
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?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔽 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔽 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- \checkmark 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.

Form C-141	2 9:25:05 AM State of New Mex	ico		Page 92 of
Page 4	Oil Conservation Div		Incident ID District RP	nAPP2111044488
			Facility ID Application ID	
regulations all operators are re public health or the environme failed to adequately investigate		lease notifications and perform t by the OCD does not relieve th ose a threat to groundwater, sur erator of responsibility for com	corrective actions for re ne operator of liability s face water, human healt pliance with any other f ty & Environme	leases which may endanger hould their operations have h or the environment. In ederal, state, or local laws

Received by OCD: 3/10/2022 9:25:05 AM Form C-141 State of New Mexico

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	nAPP211104488
District RP	
Facility ID	
Application ID	

Remediation 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) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Rep Safety & Environmental Sr Printed Name: Chase Settle Signature: Than Sittle Date: 08/31/2021 email: Chase_Settle@eogresources.com Telephone: 575-748-1471 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

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



Our ref: 11228313

August 27, 2021

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

Re: Site Characterization and Remediation Work Plan Jackson B #17 Wellhead Release Site EOG Resources Inc. Incident ID: nAPP2111044488 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 Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, and analyses in the affected area at the EOG Jackson B #17 Wellhead 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 32.85807 N latitude and 103.93198 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 initial report for this release was submitted to the NMOCD on April 19, 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 site abandonment activities associated with this location. Soils within the former oil well 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.

The Initial Form C-141, Site Assessment/Characterization and Remediation Plan portions of Form C-141 for Incident Number nAPP2111044488 are attached to the front of this report.

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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, at GPS Coordinates, 32.85697 N latitude and 103.92703 W longitude to approximately 125 feet below ground surface (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 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'	

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 May 24 through 25, 2021, GHD Services Inc. (GHD) and EOG's contractor BDS Enterprises, LLC (BDS), on behalf of EOG, installed five (5) test pits within the suspected impacted area. Soil samples were collected at eight (8) and twenty (20) feet bgs in test pit TP-1 and at the surface and two (2) feet bgs in TP-2 through TP-5. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Analytical results indicated test pit TP-1 exhibited benzene, BTEX and Total TPH above Table 1 closure criteria at eight (8) feet and Total TPH at twenty (20) feet bgs. None of the other sample points exhibited benzene, BTEX, Total TPH or chloride concentrations above Table 1 closure criteria. Test pits TP-3 and TP-5 exhibited TPH and/or chloride concentrations above 100 mg/kg and 600 mg/kg, respectively, in the first four (4) feet bgs.

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On July 22, 2021, GHD and Talon returned to the site to install a soil boring near TP1 to fully delineate the release to less than 100 mg/kg for TPH concentrations and 600 mg/kg for chloride concentrations. The soil boring was installed to a depth of seventy-five (75) feet bgs. Samples were collected in approximate five (5) foot intervals beginning at twenty-five 25 feet bgs. Select 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. TPH concentrations were delineated to below 100 mg/kg at twenty-five (25) feet bgs. The TP-5 Soil Boring Log is provided as Attachment B.

Figure 2, Site Assessment: Soil Analytical Results Map, 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. nAPP11104488 Proposed Work Plan

Test pit TP-1 exhibited benzene, BTEX and Total TPH above Table 1 closure criteria at eight (8) feet and Total TPH criteria was exceeded at twenty (20) feet bgs. None of the other samples submitted for analysis exhibited benzene, BTEX, Total TPH or chloride concentrations above Table 1 closure criteria. Test pits TP-3 and TP-5 exhibited TPH and/or chloride concentrations above 100 mg/kg and 600 mg/kg, respectively, in the first four (4) feet bgs.

GHD, on behalf of EOG, proposes to excavate soils containing Total TPH concentrations over 100 mg/kg and chloride concentrations over 600 mg/kg within the top four feet of the impacted area. Additionally, the TP-1 area will be excavated to nineteen and one-half (19.5) feet bgs or as deep as safely possible. The bottom of the excavation will be treated with a microbial strain to digest organics in the hydrocarbons. The excavation will be backfilled with non-impacted soil transported to the site. After ninety (90) days, or when a drilling rig is available, a drilling rig will be utilized to collect samples at twenty (20), twenty-three (23), twenty-five (25), and twenty-eight (28) feet bgs.

Composite confirmation samples will be collected from the sidewalls of the excavation from areas representing area no larger than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls if any staining is observed. No confirmation samples will be collected from the bottom of the excavation as the site is already vertically delineated. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

Excavated soils will be transported to a NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 4,000 to 8,000 cubic yards depending on the final dimensions of the excavation based on the depth and site conditions encountered. The excavation will be backfilled with non-impacted soil transported to the site. The remediation will be performed within 180 days after the work plan has been approved. If a driller isn't available within that time frame a request for an extension will be submitted to the NMOCD. If the confirmation samples collected at twenty (20), twenty-three (23), twenty-five (25), and twenty-eight (28) feet bgs from the TP-1 excavation are below Table 1 closure criteria, a closure report will be prepared to document remediation activities and submitted to the NMOCD. If the samples exhibit Total TPH concentrations above Table 1 closure criteria a new work plan will be submitted to the NMOCD for approval.

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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

Rebena Haskell

Becky Haskell Senior Project Manager

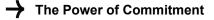
BH/tl/1

Thomas Clayon

Thomas C. Larson, M.S. Midland Operation Manager

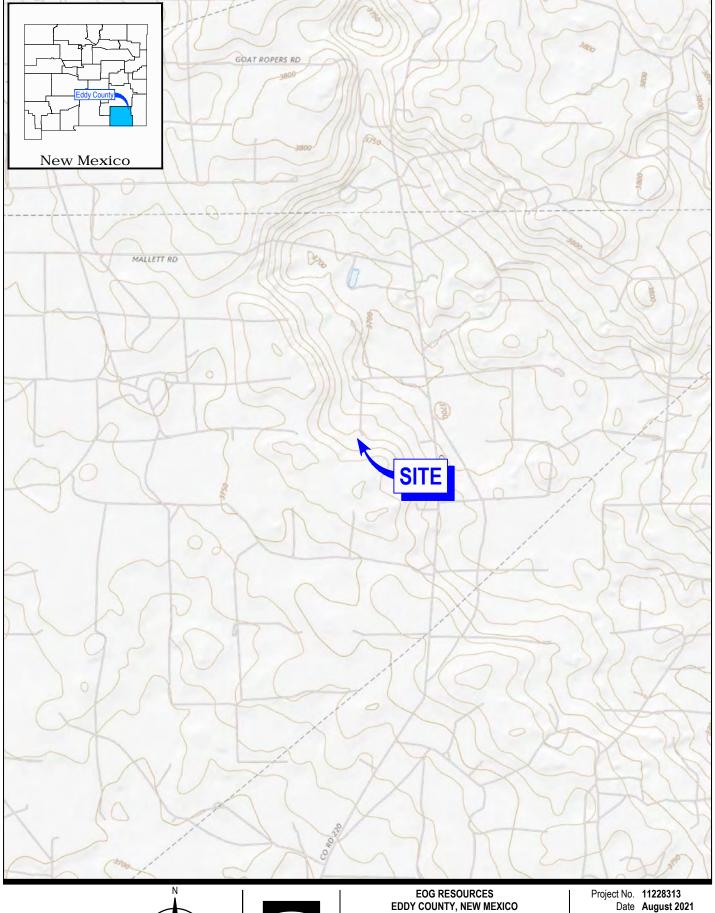
Encl. Figure 1 – Site Location Map
Figure 2 – Site Assessment Soil Analytical Results Map
Table 1 – Summary of Soil Analytical Data
Attachment A – Site Characterization Documentation
Attachment B – TP-1 Soil Boring Log
Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Chase Settle



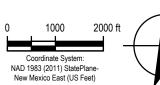
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Figures



Date August 2021





SITE LOCATION MAP

JACKSON B #17 WELLHEAD

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Data Source: USGS 7.5 Minute Quad "Loco Hills and Henshaw Tank, New Mexico" Lat/Long: 32.858019° North, 103.931812° West

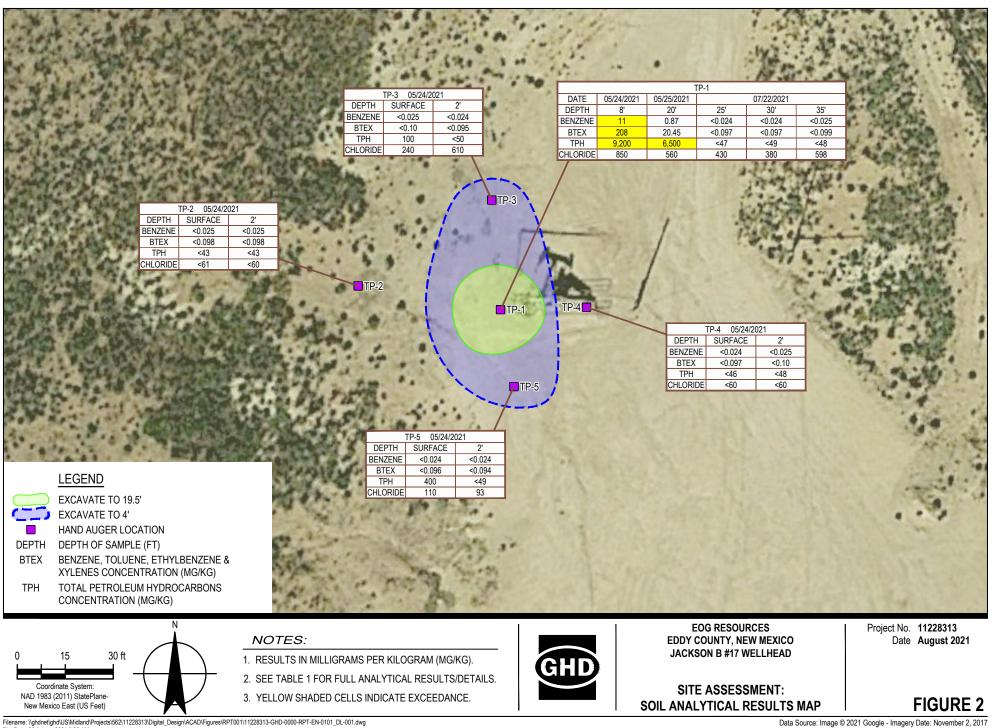
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Lat/Long: 32.858019° North, 103.931812° West

Tables

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

	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	ТРН				
Sample ID								GRO (C6-C10)	DRO (C10- C28)	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg				50 mg/Kg	1,000	mg/Kg		2,500 mg/Kg	20,000 mg/Kg
Initial Assessment Samples												
TP1-8	5/24/21	8	11	58	63	76	208	1,600	3,200	4,400	9,200	850
TP1-20	5/25/21	20	0.87	0.38	10	9.2	20.45	570	3,500	2,500	6,500	560
TP1-25	7/22/21	25	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.4	<47	<47	430
TP1-30	7/22/21	30	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	380
TP1-35	7/22/21	35	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<48	<48	598
TP2-S	5/24/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.5	<43	<43	<61
TP2-2	5/24/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.6	<43	<43	<60
TP3-S	5/24/21	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.6	100	100	240
TP3-2	5/24/21	2	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	610
TP4-S	5/24/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.2	<46	<46	<60
TP4-2	5/24/21	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<48	<48	<60
TP5-S	5/24/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	170	230	400	110
TP5-2	5/24/21	2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	<49	<49	93

Notes:

1. Values reported in mg/kg

2. < = Value Less than Reporting Limit (RL)

3. Bold Indicates Analyte Detected

4 BTEX analyses by EPA Method SW 8021B

B-BH-2 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod

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

7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table

Closure Criteria for the site.

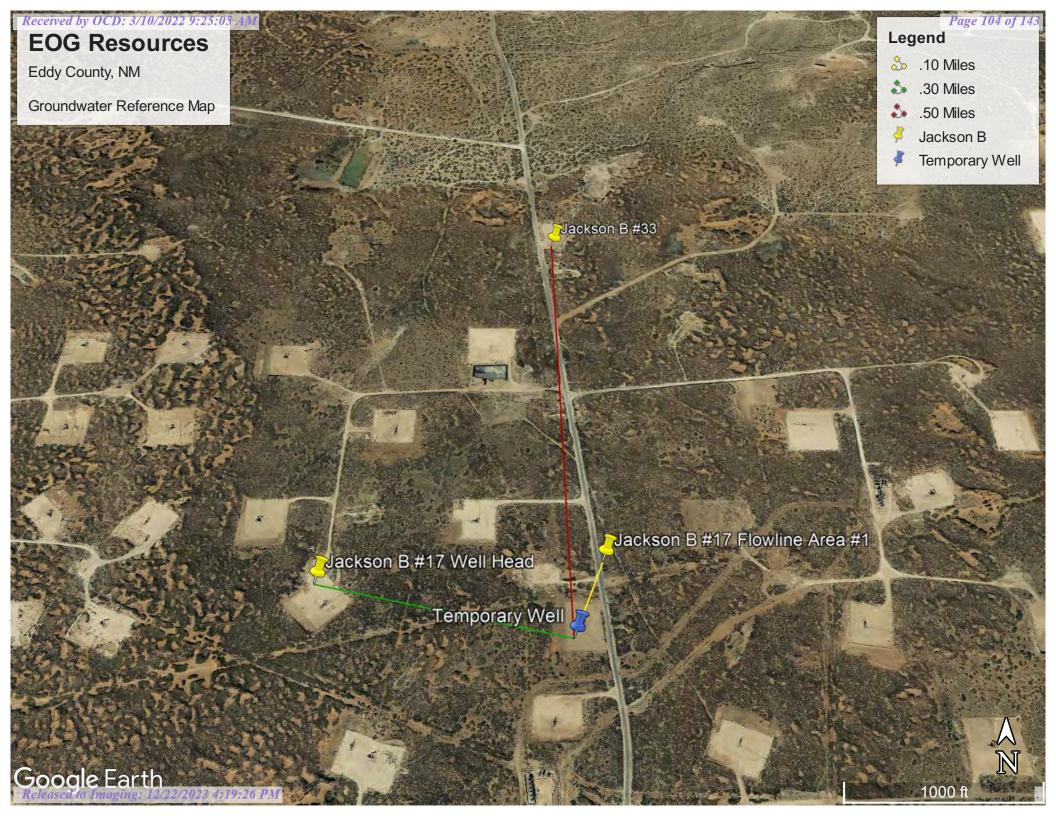
8. J - the target analytes was positively identified below the quantitation limit and above the detection limit

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Page 102 of 143

Attachment A Site Characterization Documentation

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BORING LOG

Project No.: 700438.238.01

Site Name: Jackson B #59

Location: Eddy County, New Mexico

Date: 5/18/2021

τα! (

Boring Number: B-1

Weather: Clear, Temp.: 75°F

Logger: D. Adkins

Field Instrument: NA

Latitude: 32.85697 N

Longitude: -103.92703 W

Driller: D. Londagin

Rig Type: Reich Drill

Bit Size: 5-7/8"

Drilling Method: Air Rotary

Sample Retrieval Method: Drill Cuttings

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	nscs	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density		(mqq) OI9			
		0-30'				Red/brown fine Sand (SP)	<u>None</u> Slight Mod. Strong				
		30-40'				Red/brown fine Sand (SP) with varying amounts of silt and caliche	<u>None</u> Slight Mod. Strong				
		40-80'				Dry, dark red/brown sandy Silts (SM)	<u>None</u> Slight Mod. Strong				
		80-125'				Red/brown fine Sand (SP)	<u>None</u> Slight Mod. Strong				
						TD 125′	None Slight Mod. Strong				
							None Slight Mod. Strong				
							None Slight Mod. Strong				
							None Slight Mod. Strong				
							None Slight Mod. Strong				
							None Slight Mod. Strong				
							None Slight Mod. Strong				
							None Slight Mod. Strong				
		Surface Elevation:									

Page _____ of ____

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ff)	nscs	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
							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	
Netes							None Slight Mod. Strong	

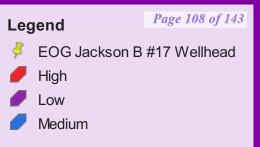
Notes:

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 _____

EOG Jackson B #17 Wellhead

Karst Potential Map



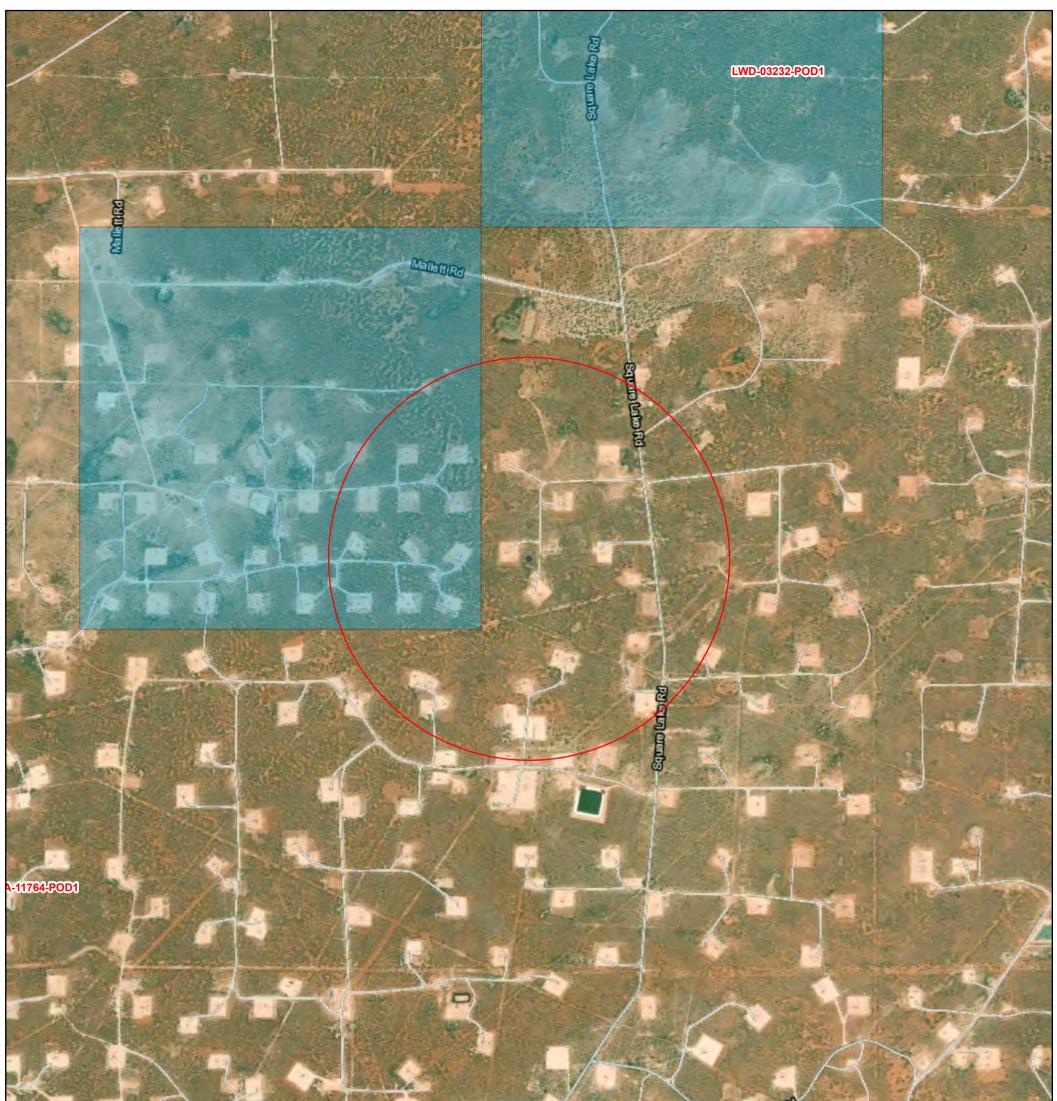
EOG Jackson B #17 Wellhead

Google Fait 12/22/2023 4:19:26 PM

3000 ft

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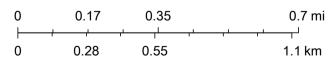




New Mexico State Trust Lands

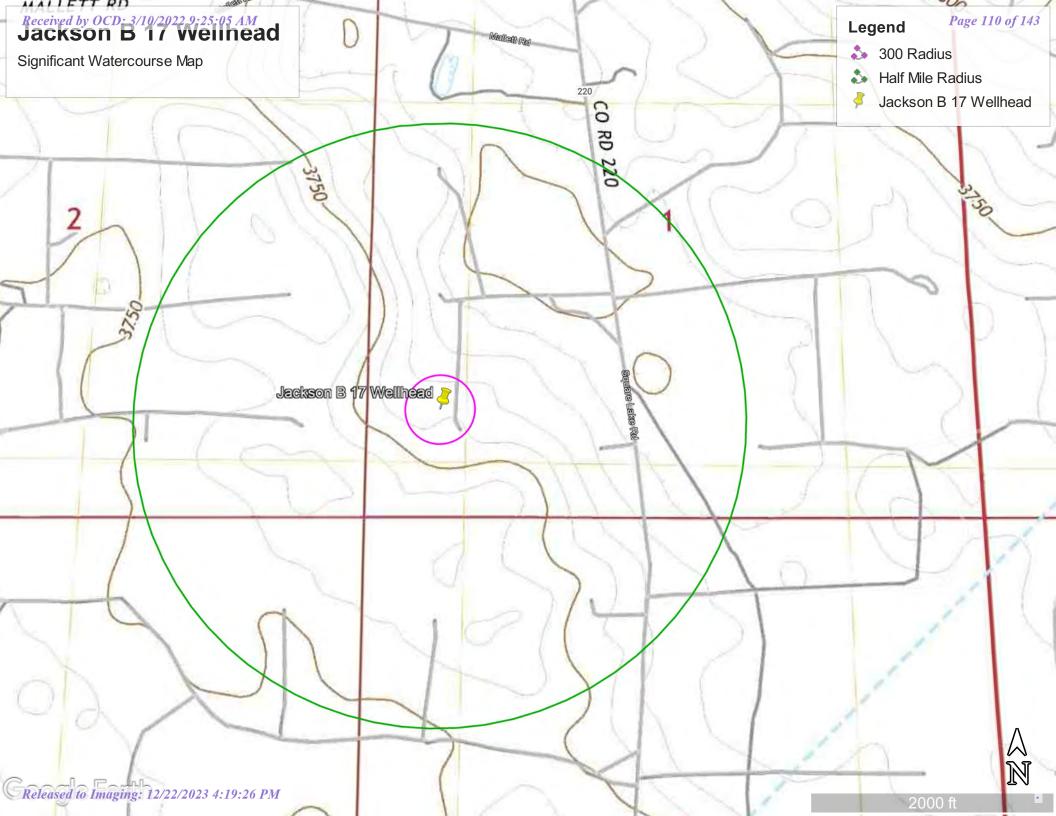


SiteBoundaries



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

Printed from Public Web Map Unofficial Map from OSE POD Locations Web Application



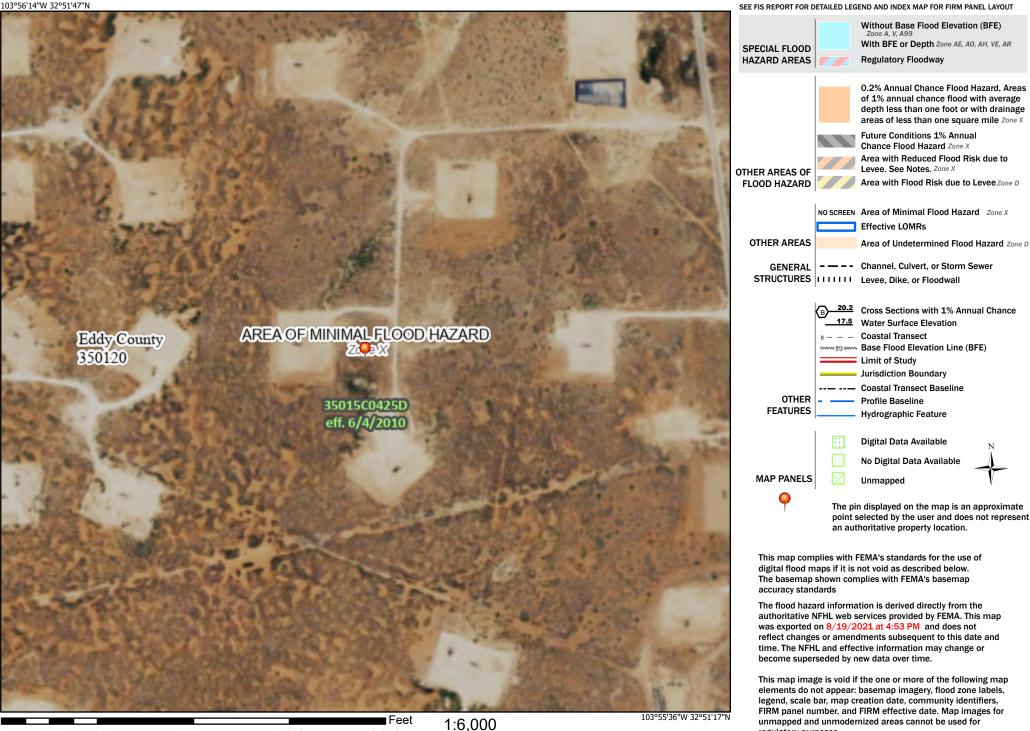
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Legend

regulatory purposes.

Page 111 of 143



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Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

U.S. Fish and Wildlife Service

National Wetlands Inventory

EOG Jackson B #17 Wellhead



- - Estuarine and Marine Wetland
- **Freshwater Pond**

Freshwater Forested/Shrub Wetland

Other Riverine

Released to Imaging: 12/22/2023 4:19:26 PM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Attachment B Soil Boring Log



TEST PIT STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: EOG/Jackson B #17 Wellhead PROJECT NUMBER: 11228313

CLIENT: EOG Resources. INC.

LOCATION: M-01-17S-30E, Eddy Co. NM 32.85807 -103.93198

HOLE DESIGNATION: TP-#1 DATE COMPLETED: 22 July 2021 TEST PIT METHOD: Air Rotary FIELD PERSONNEL: Lee M./Zach C.

DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS		DEPTH		SAMPLE					
ft BGS			m BGS	NUMBER	INTERVAL	REC (%)	mS/cm	NaCI		
				NUN	INTE	RE	ш	Ż		
	Start strat log @ 20ft									
5										
	SAND, fine/medium, red and brown, dry		20.00							
	CLAYEY SAND, red and brown, with caliche interbedded, slightly moist		22.50 25.00	20-25'			980			
	SAND, fine/medium, red and brown, dry - bed of caliche at 27.00ft BGS			25-30'			1120			
30										
L - A - 35	- slightly moist at 32.50ft BGS			30-35'			960			
	CLAYEY SAND, red and brown, slightly moist	////	37.50	35-40'			620			
40 	SAND, fine/medium, red and brown, dry		40.00							
<u>2</u> -				40-45'			490			
				45-50'			400	396		
U				50-55'			300	356		
55				55-60'			920	875		
65				60-65'			500			
				65-70'			260	268		
- - - 70										
- - - - - 75			75.00	70-75'			420	396		
	END OF BOREHOLE @ 75.00ft BGS		70.00							
	NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATIONS	ON TA	ABLE							
60 	CHEMICAL ANALYSIS		1	lote: m ield scr			aCl dat	a is		

Attachment C Laboratory Analytical Reports and Chain-of-Custody Documentation



June 02, 2021

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

RE: Jackson B 17 Wellhead

OrderNo.: 2105A89

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/26/2021 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

alysis Laboratory,	Inc.		Analytical Report Lab Order: 2105A89 Date Reported: 6/2/2021				
ellhead			L	.ab C	Order: 2105A8	39	
	C	ollecti	on Date	: 5/2	24/2021 10:45:00 AN	М	
			Matrix	: SC	DIL		
Result	RL	Qual	Units	DF	Date Analyzed	Batch ID	
					Analy	yst: VP	
850	60		mg/Kg	20	6/1/2021 3:37:04 PN	60357	
RANGE ORGANICS					Anal	yst: SB	
3200	440		mg/Kg	50	5/28/2021 11:33:14 /	AM 60287	
4400	2200		mg/Kg	50	5/28/2021 11:33:14	AM 60287	
0	70-130	S	%Rec	50	5/28/2021 11:33:14 /	AM 60287	
RANGE					Anal	yst: NSB	
1600	250		mg/Kg	50	5/28/2021 4:07:25 A	M 60281	
153	70-130	S	%Rec	50	5/28/2021 4:07:25 A	M 60281	
S					Analy	yst: NSB	
11	1.2		mg/Kg	50	5/28/2021 4:07:25 A		
58	2.5		mg/Kg	50	5/28/2021 4:07:25 A	M 60281	
63	2.5		mg/Kg	50	5/28/2021 4:07:25 A	M 60281	
76	5.0		mg/Kg	50	5/28/2021 4:07:25 A	M 60281	
112	70-130		%Rec	50	5/28/2021 4:07:25 A	M 60281	
	C	ollecti	on Date	e: 5/2	24/2021 11:00:00 AN	М	
			Matrix	: SC	DIL		
Result	RL	Qual	Units	DF	Date Analyzed	Batch ID	
					Analy	yst: VP	
ND	61		mg/Kg	20	6/1/2021 3:49:28 PM	60357	
RANGE ORGANICS					Analy	yst: SB	
ND	8.5		mg/Kg	1	5/28/2021 2:58:15 P	M 60297	
ND	43		mg/Kg	1	5/28/2021 2:58:15 P	M 60297	
115	70-130		%Rec	1	5/28/2021 2:58:15 P	M 60297	
110							
RANGE					Analy	yst: CCM	
RANGE	4.9		mg/Kg	1	5/27/2021 6:32:00 P	yst: CCM M 60288	
E RANGE ND 87.0	4.9 70-130		mg/Kg %Rec	1 1	5/27/2021 6:32:00 P 5/27/2021 6:32:00 P	yst: CCM M 60288 M 60288	
RANGE ND 87.0 S	70-130		%Rec	1	5/27/2021 6:32:00 P 5/27/2021 6:32:00 P 5/27/2021 6:32:00 P	yst: CCM M 60288 M 60288 yst: CCM	
E RANGE ND 87.0 S ND	70-130 0.025		%Rec	1 1	5/27/2021 6:32:00 P 5/27/2021 6:32:00 P 6/27/2021 6:32:00 P Analy 5/27/2021 6:32:00 P	yst: CCM M 60288 M 60288 yst: CCM M 60288	
RANGE ND 87.0 S ND ND	70-130 0.025 0.049		%Rec mg/Kg mg/Kg	1 1 1	5/27/2021 6:32:00 P 5/27/2021 6:32:00 P Analy 5/27/2021 6:32:00 P 5/27/2021 6:32:00 P	yst: CCM M 60288 M 60288 yst: CCM M 60288 M 60288	
E RANGE ND 87.0 S ND	70-130 0.025		%Rec	1 1	5/27/2021 6:32:00 P 5/27/2021 6:32:00 P 6/27/2021 6:32:00 P Analy 5/27/2021 6:32:00 P	yst: CCM M 60288 M 60288 yst: CCM M 60288 M 60288 M 60288	
	Image: second	Result RL 850 60 RANGE ORGANICS 3200 440 3200 440 4400 2200 0 70-130 0 70-130 RANGE 1600 250 153 70-130 RANGE 11 1.2 58 2.5 63 2.5 63 2.5 63 2.5 63 2.5 63 2.5 63 2.5 63 2.5 63 2.5 63 2.5 63 2.5 63 2.5 63 2.5 76 5.0 112 70-130 C C Result RL ND 61 RANGE ORGANICS ND 8.5	Image: state	Image: state	Alysis Laboratory, Inc. Interpretent of the pretent of the preten	Alysis Laboratory, Inc. Lab Order: 2105A89 Jate Reported: 6/2/20 Allhead Lab Order: 2105A9 Collection: Date: 5/24/2021 10:45:00 All Matrix: SOIL SOIL Result RL Qual Units DF Date Analyzed Analyzed Matrix: SOIL Analyzed Analyzed Result RL Qual Units DF Date Analyzed Analyzed Matrix: SOIL Analyzed Analyzed RANGE ORGANICS May/Kg 50 5/28/2021 11:33:14/ Analyzed 3200 440 mg/Kg 50 5/28/2021 11:33:14/ Analyzed 4400 2200 mg/Kg 50 5/28/2021 11:33:14/ Analyzed RANGE May/Kg S0 5/28/2021 11:33:14/ Analyzed 100 70:130 S %Rec 50 5/28/2021 4:07:25 A 153 70:130 S %Rec 50 5/28/2021 4:07:25 A 111 1.2 mg/Kg 50 5/28/2021 4:07:25 A </td	

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

* Value exceeds Maximum Contaminant Level. Qualifiers:

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

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank в Е

Value above quantitation range

Analyte detected below quantitation limits J

Sample pH Not In Range Р

RL Reporting Limit

Page 1 of 14

Hall Environmental Analysis La	Inc.	Analytical ReportLab Order: 2105A89Date Reported: 6/2/2021							
CLIENT:GHDProject:Jackson B 17 Wellhead			L	ab O	rder: 2105A	89			
Lab ID: 2105A89-003 Client Sample ID: TP2-2		Collection Date: 5/24/2021 11:05:00 AM Matrix: SOIL							
Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch ID			
EPA METHOD 300.0: ANIONS					Ana	lyst: VP			
Chloride	ND	60	mg/Kg	20	6/1/2021 4:01:53 PM	M 60357			
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Ana	lyst: SB			
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	5/28/2021 2:13:50 F	PM 60297			
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	5/28/2021 2:13:50 F	PM 60297			
Surr: DNOP	98.5	70-130	%Rec	1	5/28/2021 2:13:50 F	PM 60297			
EPA METHOD 8015D: GASOLINE RANGE					Ana	lyst: CCM			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2021 7:31:00 F	PM 60288			
Surr: BFB	86.2	70-130	%Rec	1	5/27/2021 7:31:00 F	PM 60288			
EPA METHOD 8021B: VOLATILES					Ana	lyst: CCM			
Benzene	ND	0.025	mg/Kg	1	5/27/2021 7:31:00 F	PM 60288			
Toluene	ND	0.049	mg/Kg	1	5/27/2021 7:31:00 F	PM 60288			
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2021 7:31:00 F	PM 60288			
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2021 7:31:00 F	PM 60288			

83.1

70-130

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

Surr: 4-Bromofluorobenzene

- 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

E Value above quantitation range

Analyte detected in the associated Method Blank

%Rec 1

5/27/2021 7:31:00 PM 60288

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

в

Page 2 of 14

Hall Environmental Analysis La	boratory,	Inc.			L	Analytical Report Lab Order: 2105A89 Date Reported: 6/2/2	021	
CLIENT: GHD				I	.ab C	Order: 2105A	189	
Project: Jackson B 17 Wellhead								
Lab ID: 2105A89-004		C	ollecti	on Date	e: 5/2	24/2021 11:10:00 A	M	
Client Sample ID: TP3-S				Matrix	s: SC	DIL		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Bat	tch ID
EPA METHOD 300.0: ANIONS						Ana	alyst:	VP
Chloride	240	60		mg/Kg	20	6/1/2021 4:14:18 P	-	60357
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Ana	lyst:	SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	5/29/2021 3:47:23	-	60297
Motor Oil Range Organics (MRO)	100	43		mg/Kg	1	5/29/2021 3:47:23		60297
Surr: DNOP	85.1	70-130		%Rec	1	5/29/2021 3:47:23		60297
EPA METHOD 8015D: GASOLINE RANGE						Ana	lvst:	ССМ
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/27/2021 8:31:00 I	•	60288
Surr: BFB	85.0	70-130		%Rec	1	5/27/2021 8:31:00 F		60288
EPA METHOD 8021B: VOLATILES						Ana	lvst:	ссм
Benzene	ND	0.025		mg/Kg	1	5/27/2021 8:31:00 I	-	60288
Toluene	ND	0.050		mg/Kg	1	5/27/2021 8:31:00 F		60288
Ethylbenzene	ND	0.050		mg/Kg	1	5/27/2021 8:31:00 F		60288
Xylenes, Total	ND	0.10		mg/Kg	1	5/27/2021 8:31:00		60288
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	5/27/2021 8:31:00 F	РМ	60288
Lab ID: 2105A89-005		C	ollecti	on Date	e: 5/2	24/2021 11:15:00 A	M	
Client Sample ID: TP3-2				Matrix	: SC	NL		
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Bat	tch ID
EPA METHOD 300.0: ANIONS						Ana	lyst:	VP
Chloride	610	60		mg/Kg	20	6/1/2021 4:26:42 P	М	60357
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Ana	lyst:	SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/28/2021 3:28:18 I	PM	60297
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/28/2021 3:28:18		60297
Surr: DNOP	99.0	70-130		%Rec	1	5/28/2021 3:28:18 I	РΜ	60297
EPA METHOD 8015D: GASOLINE RANGE						Ana	lyst:	ссм
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/27/2021 8:51:00 I	-	60288
Surr: BFB	87.4	70-130		%Rec	1	5/27/2021 8:51:00 F		60288
EPA METHOD 8021B: VOLATILES						Ana	lyst:	ссм
Benzene	ND	0.024		mg/Kg	1	5/27/2021 8:51:00 I	•	60288
Toluene	ND	0.048		mg/Kg	1	5/27/2021 8:51:00 F		60288
Ethylbenzene	ND	0.048		mg/Kg	1	5/27/2021 8:51:00 F		60288
Xylenes, Total	ND	0.095		mg/Kg	1	5/27/2021 8:51:00		60288
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec		5/27/2021 8:51:00 F		60288

* Value exceeds Maximum Contaminant Level. Qualifiers:

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

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank В Е

Value above quantitation range

Analyte detected below quantitation limits J

Sample pH Not In Range Р

RL Reporting Limit

Page 3 of 14

Hall Environmental Analysis La	Inc.	Analytical ReportLab Order: 2105A89Date Reported: 6/2/2021							
CLIENT: GHD Project: Jackson B 17 Wellhead			L	ab O	rder: 2105A	89			
Lab ID: 2105A89-006 Client Sample ID: TP4-S		Collection Date: 5/24/2021 11:20:00 AM Matrix: SOIL							
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch ID			
EPA METHOD 300.0: ANIONS					Anal	lyst: VP			
Chloride	ND	60	mg/Kg	20	6/1/2021 4:39:07 PM	M 60357			
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Anal	lyst: SB			
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/28/2021 3:38:14 F	PM 60297			
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/28/2021 3:38:14 F	PM 60297			
Surr: DNOP	101	70-130	%Rec	1	5/28/2021 3:38:14 F	PM 60297			
EPA METHOD 8015D: GASOLINE RANGE					Anal	lyst: CCM			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2021 9:11:00 F	PM 60288			
Surr: BFB	83.1	70-130	%Rec	1	5/27/2021 9:11:00 F	PM 60288			
EPA METHOD 8021B: VOLATILES					Anal	lyst: CCM			
Benzene	ND	0.024	mg/Kg	1	5/27/2021 9:11:00 F	PM 60288			
Toluene	ND	0.049	mg/Kg	1	5/27/2021 9:11:00 F	PM 60288			
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2021 9:11:00 F	PM 60288			
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2021 9:11:00 F	PM 60288			

81.8

70-130

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

Surr: 4-Bromofluorobenzene

- 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

E Value above quantitation range

Analyte detected in the associated Method Blank

%Rec 1 5/27/2021 9:11:00 PM 60288

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

в

Page 4 of 14

Hall Environmental Analysis La	boratory,	Inc.	Analytical Report Lab Order: 2105A89 Date Reported: 6/2/20)21	
CLIENT:GHDProject:Jackson B 17 Wellhead				L	ab C	Order: 2105A	489		
Lab ID: 2105A89-007		С	ollecti	on Date	: 5/2	24/2021 11:25:00 A	٩M		
Client Sample ID: TP4-2				Matrix	: SC	DIL			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch II	
EPA METHOD 300.0: ANIONS						Ana	alyst:	VP	
Chloride	ND	60		mg/Kg	20	6/1/2021 4:51:31 F	-	60357	
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Ana	alyst:	SB	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/28/2021 3:48:10	-	60297	
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/28/2021 3:48:10		60297	
Surr: DNOP	114	70-130		%Rec	1	5/28/2021 3:48:10	PM	60297	
EPA METHOD 8015D: GASOLINE RANGE						Ana	alvst:	ССМ	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/27/2021 9:31:00	-	60288	
Surr: BFB	87.4	70-130		%Rec	1	5/27/2021 9:31:00		60288	
EPA METHOD 8021B: VOLATILES						An	alvst	ССМ	
Benzene	ND	0.025		mg/Kg	1	5/27/2021 9:31:00	-	60288	
Toluene	ND	0.020		mg/Kg	1	5/27/2021 9:31:00		60288	
Ethylbenzene	ND	0.050		mg/Kg	1	5/27/2021 9:31:00		60288	
Xylenes, Total	ND	0.10		mg/Kg	1	5/27/2021 9:31:00	PM	60288	
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	5/27/2021 9:31:00	PM	60288	
Lab ID: 2105A89-008		С	ollecti	on Date	: 5/2	24/2021 11:30:00 A	AM		
Client Sample ID: TP5-S				Matrix	: SC	DIL			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Ba	atch II	
EPA METHOD 300.0: ANIONS						Ana	alyst:	VP	
Chloride	110	60		mg/Kg	20	6/1/2021 5:03:56 F	M	60357	
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Ana	alyst:	SB	
Diesel Range Organics (DRO)	170	9.5		mg/Kg	1	5/28/2021 2:41:02	-	60297	
Motor Oil Range Organics (MRO)	230	47		mg/Kg	1	5/28/2021 2:41:02		60297	
Surr: DNOP	80.3	70-130		%Rec	1	5/28/2021 2:41:02	PM	60297	
EPA METHOD 8015D: GASOLINE RANGE						Ana	alyst:	ССМ	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/27/2021 9:51:00	-	60288	
Surr: BFB	84.9	70-130		%Rec	1	5/27/2021 9:51:00		60288	
EPA METHOD 8021B: VOLATILES						Ana	alyst:	ССМ	
Benzene	ND	0.024		mg/Kg	1	5/27/2021 9:51:00		60288	
Toluene	ND	0.048		mg/Kg	1	5/27/2021 9:51:00		60288	
Ethylbenzene	ND	0.048		mg/Kg	1	5/27/2021 9:51:00	PM	60288	
Xylenes, Total	ND	0.096		mg/Kg	1	5/27/2021 9:51:00	PM	60288	
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	5/27/2021 9:51:00	РМ	60288	

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

* Value exceeds Maximum Contaminant Level. Qualifiers:

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank в Е

Value above quantitation range

Analyte detected below quantitation limits J

Sample pH Not In Range Р

RL Reporting Limit Page 5 of 14

Hall Environmental Analysis	Laboratory,	Inc.		Analytical Report Lab Order: 2105A89 Date Reported: 6/2/2021					
CLIENT: GHD			L	ab O	order: 2105A	189			
Project: Jackson B 17 Wellhead									
Lab ID: 2105A89-009		С	ollection Date	: 5/2	4/2021 11:35:00 A	M			
Client Sample ID: TP5-2 Matrix: SOIL									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Bat	tch ID		
EPA METHOD 300.0: ANIONS					Ana	alyst: `	VP		
Chloride	93	60	mg/Kg	20	6/1/2021 5:16:21 P	М	60357		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Ana	alyst: :	SB		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/28/2021 3:58:05 I	PM	60297		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/28/2021 3:58:05 I	PM	60297		
Surr: DNOP	109	70-130	%Rec	1	5/28/2021 3:58:05 I	РМ	60297		
EPA METHOD 8015D: GASOLINE RANGE					Ana	alyst:	ССМ		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2021 10:10:00	PM	60288		
Surr: BFB	84.4	70-130	%Rec	1	5/27/2021 10:10:00	PM	60288		
EPA METHOD 8021B: VOLATILES					Ana	alyst:	ССМ		
Benzene	ND	0.024	mg/Kg	1	5/27/2021 10:10:00	PM	60288		
Toluene	ND	0.047	mg/Kg	1	5/27/2021 10:10:00	PM	60288		
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2021 10:10:00	PM	60288		
Xylenes, Total	ND	0.094	mg/Kg	1	5/27/2021 10:10:00	PM	60288		
Surr: 4-Bromofluorobenzene	81.3	70-130	%Rec	1	5/27/2021 10:10:00	PM	60288		

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

Е Value above quantitation range

Analyte detected in the associated Method Blank

- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL Reporting Limit

в

Page 6 of 14

Analytical Report Lab Order: 2105A89

Date	Damar	tod.	(12/20)

Hall Environmental Analysis Laboratory, Inc.						Γ	Date Reported: 6/2/20)21
CLIENT:	GHD Jackson B 17 Wellhead				L	ab C	order: 2105A8	89
Project:	Jackson B 17 wenneau							
Lab ID:	2105A89-010		С	ollecti	on Date	: 5/2	25/2021 10:45:00 Al	М
Client Sample	e ID: TP1-20	Matrix: SOIL					IL	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS						Anal	yst: VP
Chloride		560	60		mg/Kg	20	6/1/2021 5:53:35 PM	60357
EPA METHO	D 8015M/D: DIESEL RANGE OR	GANICS					Anal	yst: SB
Diesel Range	organics (DRO)	3500	440		mg/Kg	50	5/28/2021 2:00:01 P	M 60297
Motor Oil Rar	nge Organics (MRO)	2500	2200		mg/Kg	50	5/28/2021 2:00:01 P	M 60297
Surr: DNO	P	0	70-130	S	%Rec	50	5/28/2021 2:00:01 P	M 60297
EPA METHO	D 8015D: GASOLINE RANGE						Anal	yst: CCM
Gasoline Ran	nge Organics (GRO)	570	23		mg/Kg	5	5/27/2021 10:30:00	PM 60288
Surr: BFB		213	70-130	S	%Rec	5	5/27/2021 10:30:00	PM 60288
							A mod	

PM 60288 **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene 0.87 0.12 mg/Kg 5 5/27/2021 10:30:00 PM 60288 Toluene 0.23 5/27/2021 10:30:00 PM 60288 0.38 mg/Kg 5 Ethylbenzene 10 0.23 mg/Kg 5 5/27/2021 10:30:00 PM 60288 Xylenes, Total 9.2 0.47 mg/Kg 5 5/27/2021 10:30:00 PM 60288 Surr: 4-Bromofluorobenzene 70-130 %Rec 5 143 S 5/27/2021 10:30:00 PM 60288

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

Qualifiers:

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

Е Value above quantitation range

Analyte detected in the associated Method Blank

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

В

Page 7 of 14

Client ID: LCSS

Analyte

Chloride

Prep Date: 6/1/2021

Batch ID: 60357

Analysis Date: 6/1/2021

PQL

1.5

15.00

Result

14

Page	124	of 143

C	Environmental Analysis Laboratory, Inc.						
	GHD ackson B 17 Wellhead						
Sample ID: MB-6035	7 SampType: MBLK TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 60357 RunNo: 78785						
Prep Date: 6/1/2021	Analysis Date: 6/1/2021 SeqNo: 2762658 Units: mg/Kg						
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit	Qual				
Chloride	ND 1.5						
Sample ID: LCS-603	57 SampType: LCS TestCode: EPA Method 300.0: Anions						

SPK value SPK Ref Val %REC LowLimit

0

RunNo: 78785

92.5

SeqNo: 2762659

Units: mg/Kg

110

HighLimit

90

RPDLimit

Qual

%RPD

Qualifiers:

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

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

Page 8 of 14

WO#:	2105A89

02-Jun-21

Client: GHD							
Project: Jackson E	3 17 Wellhead						
Sample ID: MB-60287	SampType: MBLK TestCode: EPA Metho	d 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 60287 RunNo: 77689	a coromina. Dieser Kange organice					
Prep Date: 5/26/2021	Analysis Date: 5/27/2021 SeqNo: 2758381	Units: mg/Kg					
	Result PQL SPK value SPK Ref Val %REC LowLim						
Analyte Diesel Range Organics (DRO)	ND 10	t HighLimit %RPD RPDLimit Qual					
Motor Oil Range Organics (MRO)	ND 50						
Surr: DNOP	11 10.00 111 7	0 130					
Sample ID: LCS-60287	SampType: LCS TestCode: EPA Metho	d 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 60287 RunNo: 77689						
Prep Date: 5/26/2021	Analysis Date: 5/27/2021 SeqNo: 2758383	Units: mg/Kg					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLim	t HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	59 10 50.00 0 118 68.	9 141					
Surr: DNOP	6.0 5.000 121 70) 130					
Sample ID: LCS-60304	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60304 RunNo: 77729						
Prep Date: 5/27/2021	Analysis Date: 5/28/2021 SeqNo: 2759335	Units: %Rec					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLim	t HighLimit %RPD RPDLimit Qual					
Surr: DNOP	5.8 5.000 115 7) 130					
Sample ID: MB-60304	SampType: MBLK TestCode: EPA Metho	d 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 60304 RunNo: 77729						
Prep Date: 5/27/2021	Analysis Date: 5/28/2021 SeqNo: 2759336	Units: %Rec					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLim	t HighLimit %RPD RPDLimit Qual					
Surr: DNOP	13 10.00 127 7) 130					
Sample ID: 2105A89-002AMS	SampType: MS TestCode: EPA Metho	d 8015M/D: Diesel Range Organics					
Client ID: TP2-S	Batch ID: 60297 RunNo: 77729						
Prep Date: 5/27/2021	Analysis Date: 5/28/2021 SeqNo: 2759627	Units: mg/Kg					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLim	t HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	44 8.4 41.91 0 104 1						
Surr: DNOP	4.3 4.191 103 70) 130					
Sample ID: LCS-60297	SampType: LCS TestCode: EPA Metho	d 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 60297 RunNo: 77729						
Prep Date: 5/27/2021	Analysis Date: 5/28/2021 SeqNo: 2759631	Units: mg/Kg					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLim	t HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	58 10 50.00 0 116 68.	9 141					

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

- 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 9 of 14

Page	<i>126</i>	of 143
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WO#:	210	5A89
	02.7	

02-Jun-21

Client: Project:	GHD Jackson	B 17 Wellh	nead								
Sample ID:	LCS-60297	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 60	297	F	RunNo: 7	7729				
Prep Date:	5/27/2021	Analysis D	0ate: 5/	28/2021	S	SeqNo: 2	759631	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.4		5.000		109	70	130			
Sample ID:	Sample ID: MB-60297 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID:	PBS	Batch	n ID: 60	297	F	RunNo: 7	7729				
Prep Date:	5/27/2021	Analysis D	0ate: 5/	28/2021	S	SeqNo: 2	759632	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		11		10.00		113	70	130			
Sample ID: 2105A89-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID:	TP2-S	Batch	n ID: 60	297	F	RunNo: 7	7729				
Prep Date:	5/27/2021	Analysis D)ate: 5/	28/2021	5	SeqNo: 2	760890	Units: mg/k	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	43	9.0	45.13	0	95.5	15	184	0.988	23.9	
Surr: DNOP		4.5		4.513		99.8	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 10 of 14

WO#:	2105A89

02-Jun-21

Client:	GHD										
Project:	Jackson E	8 17 Wellhe	ead								
Sample ID: I	mb-60281	31 SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID: 60281			F	RunNo: 77699					
Prep Date:	5/26/2021	Analysis Da	ate: 5/	27/2021	S	SeqNo: 2	758755	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	Organics (GRO)	ND 1000	5.0	1000		102	70	130			
Sample ID: I	lcs-60281	SampTy	vpe: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch	ID: 60	281	F	RunNo: 7	7699				
Prep Date:	5/26/2021	Analysis Da	ate: 5/	27/2021	S	SeqNo: 27	758756	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB		1100		1000		112	70	130			
Sample ID: I	LCS-60288	SampTy	/pe: LC	S	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch	ID: 60	288	RunNo: 77731						
Prep Date:	5/26/2021	Analysis Da	ate: 5/	27/2021	SeqNo: 2759007			Units: mg/Kg			
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	Organics (GRO)	22 970	5.0	25.00 1000	0	88.8 96.5	78.6 70	131 130			
						30.5	70	150			
Sample ID: I		SampTy						8015D: Gaso	line Rang	e	
Client ID:			ID: 60			RunNo: 77					
Prep Date:	5/26/2021	Analysis Da	ate: 5/	27/2021	5	SeqNo: 27	759008	Units: mg/K	g		
Analyte	0	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	Organics (GRO)	ND 830	5.0	1000		83.2	70	130			
Sample ID: 2	2105A89-002ams	SampTy	/pe: M\$	6	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	TP2-S	Batch	ID: 60	288	F	RunNo: 7	7731				
Prep Date:	5/26/2021	Analysis Da	ate: 5/	27/2021	S	SeqNo: 2	759010	Units: mg/K	g		
	0/20/2021										
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	Result 25	PQL 4.9	24.37	SPK Ref Val 0	101	61.3	114	%RPD	RPDLimit	Qual
,		Result						0	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB		Result 25 960	4.9	24.37 974.7	0	101 98.6	61.3 70	114			Qual
Gasoline Range Surr: BFB	Organics (GRO) 2105A89-002amsd	Result 25 960 I SampTy	4.9	24.37 974.7	0 Tes	101 98.6	61.3 70 PA Method	114 130			Qual
Gasoline Range Surr: BFB Sample ID: 2	Organics (GRO) 2105A89-002amsd TP2-S	Result 25 960 I SampTy	4.9 vpe: M ID: 60	24.37 974.7 SD 288	0 Tes F	101 98.6 tCode: Ef	61.3 70 PA Method 7731	114 130	line Rang		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

GHD

Client:

	5A89
ll Environmental Analysis Laboratory, Inc. 02-J	n-21

Project: Jackson H	3 17 Wellh	lead								
Sample ID: 2105A89-002amso	d SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: TP2-S	Batch	n ID: 60	288	F	RunNo: 7	7731				
Prep Date: 5/26/2021	Analysis D	ate: 5/	27/2021	S	SeqNo: 2	759011	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.58	0	98.3	61.3	114	2.09	20	
Surr: BFB	970		983.3		98.9	70	130	0	0	

Qualifiers:

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

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

Page 12 of 14

WO#:	2105A89

02-Jun-21

Client: GHD Project: Jackson	B 17 Welll	head								
Sample ID: mb-60281	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS		h ID: 602			RunNo: 7					
Prep Date: 5/26/2021	Analysis [Date: 5/	27/2021	S	SeqNo: 2	758801	Units: mg/k	Ka		
Analyte	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025			/inteo	LOWLINIT	TignEinin			Quai
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			
Sample ID: LCS-60281	Samp	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batc	h ID: 602	281	F	RunNo: 7	7699				
Prep Date: 5/26/2021	Analysis [Date: 5/ 2	27/2021	5	SeqNo: 27	758802	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			
Sample ID: LCS-60288	Samp ⁻	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 602	288	F	RunNo: 7	7731				
Prep Date: 5/26/2021	Analysis [Date: 5/	27/2021	S	SeqNo: 2	759025	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	0.89	0.050	1.000	0	89.3	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.2	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		83.8	70	130			
Sample ID: MB-60288		Гуре: МЕ					8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 602	288	F	RunNo: 7	7731				
Prep Date: 5/26/2021	Analysis [Date: 5/ 3	27/2021	S	SeqNo: 2	759026	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.80		1.000		80.2	70	130			

Qualifiers:

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- 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

WO#: 2105A89

02-Jun-21

Client: GHD

Project: Jacks	son B 17 Wellhead
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Sample ID: 2105A89-003ams	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID: TP2-2	Batc	h ID: 60	288	R	RunNo: 7	7731				
Prep Date: 5/26/2021	Analysis [Date: 5/	27/2021	S	eqNo: 2	759029	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9634	0	98.0	76.3	120			
Toluene	0.93	0.048	0.9634	0	96.5	78.5	120			
Ethylbenzene	0.96	0.048	0.9634	0	100	78.1	124			
Xylenes, Total	2.8	0.096	2.890	0	97.4	79.3	125			
					~ ~ /	70	100			
Surr: 4-Bromofluorobenzene	0.80		0.9634		83.4	70	130			
Surr: 4-Bromofluorobenzene Sample ID: 2105A89-003ams		Гуре: МS		Tesi		-	130 8021B: Volat	iles		
	d Samp	Гуре: МS h ID: 60 2	SD.			PA Method		iles		
Sample ID: 2105A89-003ams	d Samp	h ID: 60	SD 288	F	tCode: Ef	PA Method 7731				
Sample ID: 2105A89-003ams Client ID: TP2-2	∶d Samp [−] Batc	h ID: 60	SD 288 27/2021	F	tCode: EF	PA Method 7731	8021B: Volat		RPDLimit	Qual
Sample ID: 2105A89-003ams Client ID: TP2-2 Prep Date: 5/26/2021	sd Samp [⊤] Batc Analysis [h ID: 60 : Date: 5/	SD 288 27/2021	F S	tCode: EF RunNo: 77 SeqNo: 27	PA Method 7731 759030	8021B: Volat Units: mg/K	g	RPDLimit 20	Qual
Sample ID: 2105A89-003ams Client ID: TP2-2 Prep Date: 5/26/2021 Analyte	id Samp ⁻ Batc Analysis I Result	h ID: 60; Date: 5/ PQL	5D 288 27/2021 SPK value	R S SPK Ref Val	tCode: EF RunNo: 77 SeqNo: 27 %REC	PA Method 7731 759030 LowLimit	8021B: Volat Units: mg/K HighLimit	g %RPD		Qual
Sample ID: 2105A89-003ams Client ID: TP2-2 Prep Date: 5/26/2021 Analyte Benzene	id Samp ⁻ Batc Analysis I Result 0.95	h ID: 60 Date: 5/ <u>PQL</u> 0.025	5D 288 27/2021 SPK value 0.9911	R S SPK Ref Val 0	tCode: EF RunNo: 77 SeqNo: 27 %REC 95.6	PA Method 7731 759030 LowLimit 76.3	8021B: Volat Units: mg/K HighLimit 120	g %RPD 0.425	20	Qual
Sample ID: 2105A89-003ams Client ID: TP2-2 Prep Date: 5/26/2021 Analyte Benzene Toluene	d Samp ⁻ Batc Analysis [<u>Result</u> 0.95 0.94	h ID: 60 Date: 5/ PQL 0.025 0.050	5D 288 27/2021 SPK value 0.9911 0.9911	F S SPK Ref Val 0 0	Code: EF RunNo: 77 SeqNo: 27 %REC 95.6 94.9	PA Method 7731 759030 LowLimit 76.3 78.5	8021B: Volat Units: mg/K HighLimit 120 120	g %RPD 0.425 1.21	20 20	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
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- 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 14 of 14

	Page	<i>131</i>	of	` <i>143</i>
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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmenta Alb TEL: 505-345-397 Website: clients.ha	490 uquero 5 FAX:	01 Hawki jue, NM o 505-345	ns NE 87109 Sar -4107	nple Log-In C	heck Lis
Client Name: GHD	Work Order Number	: 210	5A89		RcptNo:	1
Received By: Juan Rojas	5/26/2021 7:30:00 AM			fland g		
Completed By: Cheyenne Cason	5/26/2021 8:02:09 AM			(lead		
Reviewed By: SPA S-26-2				Gene		
Chain of Custody						
1. Is Chain of Custody complete?		Yes		No 🗌	Not Present	
2. How was the sample delivered?		Cou	rier			
Log In 3. Was an attempt made to cool the samples	2	Yes		No 🗌		
		100				
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes	~	No 🗌	NA 🗔	
5. Sample(s) in proper container(s)?		Yes		No 🗌		
6, Sufficient sample volume for indicated test(s)?	Yes		No 🗌		
7. Are samples (except VOA and ONG) prope	rly preserved?	Yes	\checkmark	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/	4" for AQ VOA?	Yes		No 🗌	NA 🗹	
10. Were any sample containers received brok	en?	Yes		No 🔽		IO
					# of preserved bottles checked	5.26.0
11. Does paperwork match bottle labels?		Yes		No 🗌	for pH:	12 unloss not
(Note discrepancies on chain of custody) 2. Are matrices correctly identified on Chain o	f Custody?	Yes		No 🗌	Adjusted?	>12 unless not
3. Is it clear what analyses were requested?	(dottody :	Yes				
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes		No 🗌	Checked by:	
Special Handling (if applicable)						
15. Was client notified of all discrepancies with	this order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date:					
By Whom:	Via:	eM	ail 🗌 I	Phone 🗌 Fax	In Person	
Regarding:						
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp ºC Condition S	Seal Intact Seal No S	Seal D	ate	Signed By	l.	

Page 1 of 1

Hall ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request							Base 135 of 14.
ENVIRONME YSIS LABOR/ environmental.com Albuquerque, NM 87109 Fax 505-345-4107 alysis Request	CON With Minuls	-				>	Le Cel
TIRO S LAE nental.cc erque, NI 505-345- Request	8270 (Semi-VOA) Total Coliform (Present/Absent)						Liskel
NVI SIS vironme buquero Fax 50 ysis Re	(AOV) 0328 (AOV) 0758	the second secon					T. Q
HALL ENVIRON ANALYSIS LABC www.hallenvironmental.com kins NE - Albuquerque, NM 8 345-3975 Fax 505-345-41 Analysis Request	Cl' E' B ^L ' NO ³ ' NO ⁵ ' EO ⁴ ' 2O ⁴				1		otha otha
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HA www dins h	PAHs by 8310 or 8270SIMS			12			e en with bill
HALL ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	EDB (Method 504.1)						Remarks: Please aloy 1 Direct &
						_	ks: F
	BTEX / MTBE / TMB's (8027)						emar
S dey J Wilkee	Heskell Lausour Lausour PNO PA F STUCKEL	002	003 124	005 1906	008 008	010	Date Time 5/35/31 0.900 Date Time C 22/22/51 This serves as notice of this
und Time: lardRush ame: ksoi, [3 #]	Iger Joun Joun Laryes Aryes Induding CF): Lit						Via: Via:
Turn-Around T CStandard Project Name: Droject #:							Received by: Received by: Received by:
Chain-of-Custody Record Address: J. Mul. 45 L 108, Add. 1, M. 87210 B #: (505) 377-4218	Huster I CHID. Com Suffic Computes. com Depliance Compliance Sample Name	TP1-8 TP2-5	7-2-2 TP3-5	TP3-2 TP4-S	TP4-2 TPS-5 TPS-5	TP1-20	Time: Relinquished by: Time: Relinquished by: Relinquished by: Received by: Receiv
in-of-Cust SHD ess: Sos) 377	Detection of the second						Relinquished by: Z.C.C.C. Relinquished by: (MMMMW samples submitted to 1
Address Address	r Fax#: Package: dard tation: AC (Type)	1001	1005	1120	135	SHO	Time: <u> <u> </u> </u>
Client: Chain- Client: A Mailing Address: Mailing Address: Phone #: (SC	Mail or Fax#: QA/QC Package: Date Time	052 Yan				2500 MON 5	Date: T

K



July 30, 2021

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

RE: Jackson B 17 Well Head

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

OrderNo.: 2107C47

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 11 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2107C47

Date Reported: 7/30/2021

CLIENT: GHD Midland	Client Sample ID: TP1-25									
Project: Jackson B 17 Well Head		(Collect	ion Dat	e: 7/2	22/2021 8:20:00 AM				
Lab ID: 2107C47-001	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	430	60		mg/Kg	20	7/30/2021 3:06:05 AM	61662			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	SB			
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/27/2021 4:20:14 PM	61572			
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/27/2021 4:20:14 PM	61572			
Surr: DNOP	138	70-130	S	%Rec	1	7/27/2021 4:20:14 PM	61572			
EPA METHOD 8015D: GASOLINE RANG	E					Analyst:	RAA			
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/29/2021 5:48:47 AM	61570			
Surr: BFB	106	70-130		%Rec	1	7/29/2021 5:48:47 AM	61570			
EPA METHOD 8021B: VOLATILES						Analyst:	RAA			
Benzene	ND	0.024		mg/Kg	1	7/29/2021 5:48:47 AM	61570			
Toluene	ND	0.048		mg/Kg	1	7/29/2021 5:48:47 AM	61570			
Ethylbenzene	ND	0.048		mg/Kg	1	7/29/2021 5:48:47 AM	61570			
Xylenes, Total	ND	0.097		mg/Kg	1	7/29/2021 5:48:47 AM	61570			
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/29/2021 5:48:47 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 1 of 7

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2107C47

Date Reported: 7/30/2021

CLIENT: GHD Midland Project: Jackson B 17 Well Head	Client Sample ID: TP1-30 Collection Date: 7/22/2021 8:40:00 AM								
Lab ID: 2107C47-002	Matrix: SOIL	,				24/2021 7:48:00 AM			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	: VP		
Chloride	380	59		mg/Kg	20	7/30/2021 3:43:19 AM	61662		
EPA METHOD 8015M/D: DIESEL RANG	BE ORGANICS					Analyst	SB		
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/27/2021 4:30:08 PM	61572		
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/27/2021 4:30:08 PM	61572		
Surr: DNOP	151	70-130	S	%Rec	1	7/27/2021 4:30:08 PM	61572		
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/29/2021 6:12:13 AM	61570		
Surr: BFB	106	70-130		%Rec	1	7/29/2021 6:12:13 AM	61570		
EPA METHOD 8021B: VOLATILES						Analyst	RAA		
Benzene	ND	0.024		mg/Kg	1	7/29/2021 6:12:13 AM	61570		
Toluene	ND	0.048		mg/Kg	1	7/29/2021 6:12:13 AM	61570		
Ethylbenzene	ND	0.048		mg/Kg	1	7/29/2021 6:12:13 AM	61570		
Xylenes, Total	ND	0.097		mg/Kg	1	7/29/2021 6:12:13 AM	61570		
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/29/2021 6:12:13 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 2 of 7

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2107C47

Date Reported: 7/30/2021

CLIENT: GHD Midland Project: Jackson B 17 Well Head	Client Sample ID: TP1-35 Collection Date: 7/22/2021 8:50:00 AM								
Lab ID: 2107C47-003	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	598	59.6		mg/Kg	20	7/30/2021 3:55:44 AM	61662		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	SB		
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/27/2021 4:39:59 PM	61572		
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/27/2021 4:39:59 PM	61572		
Surr: DNOP	148	70-130	S	%Rec	1	7/27/2021 4:39:59 PM	61572		
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	RAA		
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/29/2021 6:35:48 AM	61570		
Surr: BFB	106	70-130		%Rec	1	7/29/2021 6:35:48 AM	61570		
EPA METHOD 8021B: VOLATILES						Analyst	RAA		
Benzene	ND	0.025		mg/Kg	1	7/29/2021 6:35:48 AM	61570		
Toluene	ND	0.050		mg/Kg	1	7/29/2021 6:35:48 AM	61570		
Ethylbenzene	ND	0.050		mg/Kg	1	7/29/2021 6:35:48 AM	61570		
Xylenes, Total	ND	0.099		mg/Kg	1	7/29/2021 6:35:48 AM	61570		
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	7/29/2021 6:35:48 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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

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

Page 3 of 7

	D Midland son B 17 Well Head			
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	

- * 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

2107C47

30-Jul-21

WO#:

Released to Imaging: 12/22/2023 4:19:26 PM

	WO#:	2107C47
Hall Environmental Analysis Laboratory, Inc.		30-Jul-21

Client: GHD M Project: Jackson	lidland B 17 Well	Head								
Sample ID: MB-61572	·	SampType: MBLK TestCode: EPA Metho Batch ID: 61572 RunNo: 80098					8015M/D: Die	esel Range	e Organics	
Client ID: PBS										
Prep Date: 7/26/2021	Analysis D	Date: 7/	27/2021	S	SeqNo: 2	820635	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		123	70	130			
Sample ID: LCS-61572	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batcl	n ID: 61	572	F	RunNo: 8	0098				
Prep Date: 7/26/2021	Analysis D)ate: 7/	27/2021	5	SeqNo: 2	820636	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	68.9	141			
Surr: DNOP	4.9		5.000		97.3	70	130			

Qualifiers:

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

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

Page 5 of 7

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Released to Imaging: 12/22/2023 4:19:26 PM

Client: GHD M Project: Jackson	idland B 17 Well	Head								
Sample ID: Ics-61570	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 61	570	F	RunNo: 8	0156				
Prep Date: 7/26/2021	Analysis D	Date: 7/	28/2021	S	eqNo: 28	322398	Units: mg/K	g		
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	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: 61	570	F	RunNo: 8	0156				
Prep Date: 7/26/2021	Analysis D	Date: 7/	29/2021	S	eqNo: 28	322400	Units: mg/K	g		
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 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 6 of 7

WO#: 2107C47 30-Jul-21 **Client: Project:**

Sample ID: LCS-61570

GHD Midland

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

Jackson B 17 Well Head

Client ID: LCSS	Batcl	n ID: 615	570	F	RunNo: 8	0156				
Prep Date: 7/26/2021	Analysis D	ate: 7/2	28/2021	5	SeqNo: 2	822450	Units: mg/K	g		
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: MB	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Sample ID: mb-61570 Client ID: PBS	•	ype: MB 1 ID: 61			tCode: El RunNo: 8		8021B: Volat	iles		
	•	n ID: 615	570	F		0156	8021B: Volat Units: mg/K			
Client ID: PBS	Batcl	n ID: 615	570 29/2021	F	RunNo: 8	0156			RPDLimit	Qual
Client ID: PBS Prep Date: 7/26/2021	Batcl Analysis D	n ID: 615 Date: 7/2	570 29/2021	F	RunNo: 8 GeqNo: 2	0156 822452	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 7/26/2021 Analyte	Batcl Analysis D Result	n ID: 615 Date: 7/2 PQL	570 29/2021	F	RunNo: 8 GeqNo: 2	0156 822452	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 7/26/2021 Analyte Benzene	Batcl Analysis D Result ND	n ID: 615 Date: 7/2 PQL 0.025	570 29/2021	F	RunNo: 8 GeqNo: 2	0156 822452	Units: mg/K	g	RPDLimit	Qual
Client ID: PBS Prep Date: 7/26/2021 Analyte Benzene Toluene	Batcl Analysis E Result ND ND	Date: 7/2 PQL 0.025 0.050	570 29/2021	F	RunNo: 8 GeqNo: 2	0156 822452	Units: mg/K	g	RPDLimit	Qual

TestCode: EPA Method 8021B: Volatiles

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
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- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 7

WO#: 2107C47 30-Jul-21

ANALYSIS LABORATORY	Hall Environmen TEL: 505-345-35 Website: clients	49 11buquer 975 FAX	01 Hawki que, NM : 505-345	ns NE 87109 -4107	Sar	mple Log-In Check List
Client Name: GHD Midland	Work Order Numb	oer: 210)7C47			RcptNo: 1
Received By: Cheyenne Cason	7/24/2021 7:48:00 A	M		ches	L	
Completed By: Cheyenne Cason	7/24/2021 8:04:30 A	M		C les	1	
Reviewed By: SPA 7.24.2				Cart	-	
Chain of Custody						
1. Is Chain of Custody complete?		Yes		N	o 🗌	Not Present
2. How was the sample delivered?		Cou	irier			
Log In						
3. Was an attempt made to cool the samples?		Yes	\checkmark	No	b	NA 🗌
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes		No	•	
5. Sample(s) in proper container(s)?		Yes		No	b	
6. Sufficient sample volume for indicated test(s		Yes	V	No		
7. Are samples (except VOA and ONG) proper	ly preserved?	Yes	V	No		
8. Was preservative added to bottles?		Yes		No	V	NA 🗔
9. Received at least 1 vial with headspace <1/2	" for AQ VOA?	Yes		No		NA 🔽
10, Were any sample containers received broke		Yes				
11			_		_	# of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No	Ш	for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of	Custody?	Yes	~	No		Adjusted?
3. Is it clear what analyses were requested?		Yes		No	1 million 1	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No		Checked by: CCC 7/24/2
Special Handling (if applicable)						
15. Was client notified of all discrepancies with	his order?	Yes		No		NA 🗹
Person Notified:	Date:					
By Whom:	Via:	eMa	ail 🗍 F	hone [Fax	In Person
Regarding:			<u> </u>		1 . .	
Client Instructions:						
16. Additional remarks;						
17. <u>Cooler Information</u> Cooler No Temp °C Condition Se 1 2.4 Good	eal Intact Seal No	Seal D	ate	Signed	Ву	

.

Page 1 of 1

Ü	nain-o	f-Cl	Chain-of-Custody Record	I urn-Around Time:				V								:е
Client: 0	GHD			R Standard		Rush 5-De.		Ц	AHA	HALL	NEN	head	ENVIRONMENT	MEN	TAL	ived i
				Project Name:		b			AIN	ANAL	STSL	2	LABORATOR	RAT	0 N	by O
Mailing Address:	ddress:				い* と	0 - MC /		MONT Howking MIC	WW	w.hall	enviror	ment	www.hallenvironmental.com			CD:
324 W. Main St.	lain St. Su	Suite 108,	8, Artesia NM 88210	ct #:		11-11-11-10-00	1	Tol FOF	WKIIS		Jonaik	ror	Albuquerque, NM 87109	109		3/10
Phone #:	(50	505)377-4218	7-4218		2128 44				G/R5-040-000	C/A	Analysis	-909-	505-345-4107)/20.
email or Fax#:		ecky.H	Becky. Haskell@ghd.com	Project Manager:	ader:					ξ				ŧ		229
QA/QC Package:				Becky Haskell	ell (_	S		OS		tne:	yd		:25.
□ Standard	ard		Level 4 (Full Validation)	Tom Larson					WIS		[*] *Oc		sdA\	MAS	_	:05 A
Accreditation:	:u	Az Co	🗆 Az Compliance	Sampler:		ino		1 280			05, 1) Juas	7	_	1 <i>M</i>
D NELAC		□ Other		On Ice:	X Yes	ON 🗆		08/9	_		N	(A	ere M	, i		
	l ype)			# of Coolers:	4			səp		_	¹² O ³	0/	/) u	br		
				Cooler Temp(Including CF):2	D(Including CF):2	6-0.2=2.4		ioite					liforr <u>J</u>	D	0	
Date T	Time Ma	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	PH:80	99 1 808	M) 803 (d sHA	8 AADS	260 (VG	92) 072	otal Co	(end)	Plint	
0 72221 0	C820	s	751-25	Jer		C301		8	-	-		-		Y		
-	0840	1	JP1-30	ļ		1001	1			1	-	1	2	-		
Ø	0880	_	721-35			2.000				1			-	+		
0	0900		7P1-40			Tree		\vdash		+		1			+	
0	0920		TPI-45			Sme				+			+		-	
0	0740		OZ-19T			006				+		1	+	-	+	
10	000		TP1-5-5			1207				+		1	-	-	+	T
16	1010		TP1-60			رهای				+		\uparrow	-		-	
lic	1050		721-65			Cool				+		t	-	-	-	
d h	1100		771-70			cu trate				+		1	-	-	-	1
-	102	4	-22-121	di		011	A A			1		+	1		+	Γ
Date' Tin	Time: Dotte		1							\vdash		1		>		1
2	-0		. ha chin	Received by:	Via:	7 23/21 9,11	Rem	Remarks: Please email: Chase Tom.Larson@ghd.com; Za	lease e arson(email: 2ghd.	Chase com; Z		rks: Please email: Chase_Settle@eogresources.com; om.Larson@ghd.com; Zach.Comino@ghd.com	esource	is.com;	1
Date; Tin		Relinquished by:	nol from	Received by:	Via:	F	W	atthew.L	aughl	in@gh	hd.com: Alor	: Alon	Matthew.Laughlin@ghd.com: Along with Becky Haskell	ecky Ha	skell	Pa
	_			Cu	cem	7/24/4 0748			Dire	ct Bill	Direct Bill to EOG Chase	S Cha	se Settle			ge 14
1	dittion 's attribu	oles suoir	in recessarry, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.	ntracted to other ac	ccredited laborato	ories. This serves as notice of this possibility.		Any sub-contracted data will be clearly notated on the analytical report	ntracted	data will	be clearly	notated	on the ana	utical report	+	20

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

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

District III

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

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator: (OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	89134
	Action Type:
	[C-103] NOI General Sundry (C-103X)
CONDITIONS	

Created By Condition Condition Date dmcclure ACCEPTED FOR RECORD 12/22/2023

Action 89134