

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	nAPP2110638434
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) nAPP2110638434
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.85813 Longitude -103.92532
(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)

Unit Letter	Section	Township	Range	County
O	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 P&A of the well. Release volume and date are unknown.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice 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

☒ The source of the release has been stopped. ☒ 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 <u>not</u> 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: <u>Chase Settle</u>	Title: <u>Rep Safety & Environmental Sr</u>
Signature: <u></u>	Date: <u>04/16/2021</u>
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ 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
- ☒ 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.

State of New Mexico
Oil Conservation Division

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature:  Date: 09/30/2021
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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.

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature:  Date: 09/30/2021
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: 11228321

September 30, 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 #2 Release Site
EOG Resources Inc.
Incident ID: nAPP2110638434
O-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 #2 Release Site (Site). The Site is located in Unit Letter O Section 01 of Township 17 South and Range 30 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.85813 N latitude and 103.92532 W longitude. The release occurred on land managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG flowline area 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 nAPP2110638434 are attached to the front of this report.

3. Groundwater and Site Characterization

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

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

General Site Characterization and Groundwater:

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

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

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

4. Initial Soil Delineation Assessment Summary and Findings

On April 20, 2021, an EOG representative, installed ten (10) test pits, A2-1 through A2-10, within the suspected impacted area. Soil samples were collected at depths ranging from Surface 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 TPH concentrations above 2,500 mg/kg in all soil samples at varying depths. None of the samples exhibited benzene, BTEX, or 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 A2-1 through A2-10 to obtain deeper samples and assess the horizontal extent of impacts in two (2) additional test pits, TP-1 through TP-2 and three (3) hand borings,

HA1 through HA3, 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 TPH concentrations were above Table 1 closure criteria in A2-1, A2-5, A2-6 and A2-10. None of the samples exhibited benzene, BTEX, or chloride concentrations above Table 1 closure criteria.

On June 28, 2021, GHD returned to the site to install four (4) additional hand borings, HA4 through HA7, to fully delineate the horizontal extent of the release. Soil samples were collected at surface and two (2) feet. The 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.

On July 21, 2021, GHD and Talon returned to the site with a drilling rig and met with Kinder Morgan who has a high-pressure pipeline running through the Site to discuss how to get the rig into the site without compromising the pipeline. The Kinder Morgan representative requested measurements and the weight of the drilling rig. While Talon worked on getting the requested information the drilling rig was relocated to another site. On July 22, 2021, the rig was moved to a another EOG site, the Jackson B #17 Flowline Area #1, which is located approximately 265 feet to the northwest of the Site. After installing a boring at the Flowline Area #1 site the drill rig got stuck and had to be pulled out of the location. Since the Site is further off the road a decision was made that a different rig would need to be brought in to install the needed boring.

While trying to schedule a different rig to come out to the site, Talon was notified by the New Mexico Office of the State Engineers (OSE) that they would need a permit to drill the boring. While waiting to obtain landowner approval required to obtain a permit, EOG requested an extension from the NMOCD on September 1, 2021. The extension request was denied by the NMOCD because an extension had already been granted.

Figure 2, Site Assessment and Proposed Excavation Area, 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. nAPP2110638434 Proposed Work Plan

A2-1 exhibited Total TPH concentrations above Table 1 closure criteria to a depth of twenty (20) feet bgs. Once landowner approval and a permit are obtained, a drill rig that can handle the terrain will be scheduled to install a boring in the area of A2-1 to delineate the TPH impacts. During boring installation samples will be obtained every five feet starting at twenty-five (25) feet bgs until field screening and observations indicated the boring is delineated. Select soil 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.

Once analytical results are obtained from the laboratory they will be evaluated and an amendment to this work plan for remediation of this area will be submitted to the NMOCD for evaluation. The work proposed here will occur 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 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



Becky Haskell
Senior Project Manager



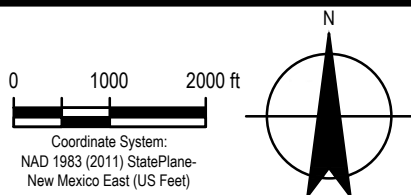
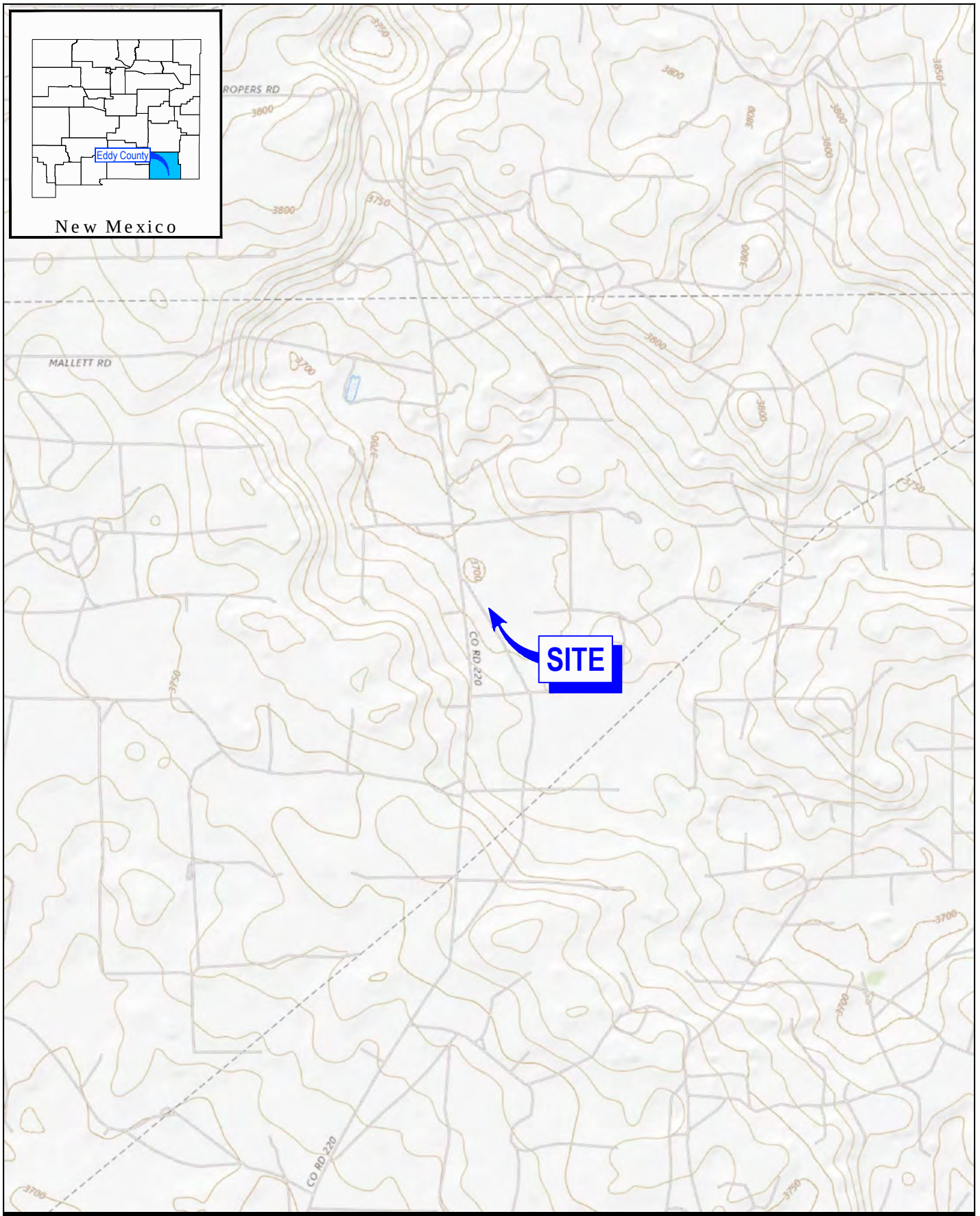
Thomas C. Larson, M.S.
Midland Operation Manager

BH/tl/1

Encl. Figure 1 – Site Location Map
 Figure 2 – Site Assessment and Proposed Excavation Area
 Table 1 – Summary of Soil Analytical Data
 Attachment A – Site Characterization Documentation
 Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Chase Settle

Figures



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



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
JACKSON B #17 FLOWLINE AREA 2

Project No. 11228321
Date September 2021

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\USMidland\Projects\562\11228321\Digital_Design\ACAD 2018\Figures\RPT001\11228321-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: USGS 7.5 Minute UTM "Loco Hills, New Mexico"
Lat/Long: 32.858114° North, 103.925244° West

Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH		Chloride	
			(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)		Total GRO/DRO/MRO
					(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								
A2-1 Sur	4/20/21	Surface	<0.12	<0.49	<24	3,000	6,700	820
A2-1 2'	4/20/21	2'	<0.12	<0.50	<25	900	3,100	78
A2-1 4'	4/20/21	4'	<0.12	<0.49	<24	1,200	4,600	420
A2-1 5'	4/20/21	5'	<0.12	<0.50	<25	4,300	9,800	540
A2-1 6'	5/25/21	6'	<0.12	<0.60	31	6,800	11,531	1100
A2-1 8'	5/25/21	8'	<0.12	<0.50	29	3,400	5,529	2100
A2-1 10'	5/25/21	10'	<0.12 D	<0.49	26	4,300	7,026	1300
A2-1 14'	5/25/21	14'	<0.12	<0.50	120	7,200	11,320	4300
A2-1 16'	5/25/21	16'	<0.12	<0.49	190	11,000	18,290	5100
A2-1 18'	5/25/21	18'	<0.12	19.3	300	4,700	7,600	4400
A2-1 20'	5/25/21	20'	<0.12	30.8	390	6,000	9,490	4500
A2-2 Sur	4/20/21	Surface	<0.12	<0.49	<24	6,600	12,800	1,900
A2-2 2'	4/20/21	2'	<0.12	<0.50	<25	1,200	3,600	180
A2-2 4'	4/20/21	4'	<0.12	<0.49	<25	200	930	340
A2-2 6'	5/25/21	6'	<0.12 D	<0.47	<23 D	380	1,130	370
A2-2 8'	5/25/21	8'	<0.12 D	<0.48	<24 D	520	1,380	170
A2-2 10'	5/25/21	10'	<0.12 D	<0.48	<24 D	450	1,250	170
A2-3 Sur	4/20/21	0'	<0.12	<0.49	<25	2,700	8,300	<60
A2-3 2'	4/20/21	2'	<0.12	<0.49	<24	1,100	2,900	<60
A2-3 4'	5/25/21	4'	<0.023	<0.093	<4.7	<9.9	<49	<60
A2-4 Sur	4/20/21	Surface	<0.12	<0.49	<25	2,400	7,600	<60
A2-4 2'	4/20/21	2'	<0.12	<0.49	<25	1,200	2,900	<60
A2-4 3'	4/20/21	3'	<0.12	<0.48	<24	150	1,000	<60
A2-4 4'	5/25/21	4'	<0.12 D	<0.48	<24 D	290	1,130	200
A2-5 Sur	4/20/21	Surface	<0.12	<0.49	<25	4,600	12,800	<60
A2-5 2'	4/20/21	2'	<0.12	<0.49	<24	290	1,590	<60
A2-5 4'	5/25/21	4'	<0.12 D	<0.48	<24 D	3,300	7,100	<60
A2-5 6'	5/25/21	6'	<0.12 D	<0.48	<24 D	2,700	4,900	140
A2-5 8'	5/25/21	8'	<0.025	<0.098	<4.9	<9.7	<49	300
A2-6 Sur	4/20/21	Surface	<0.12	<0.49	<25	4,100	10,300	82
A2-6 2'	4/20/21	2'	<0.12	<0.49	<24	150	820	<60
A2-6 4'	5/25/21	4'	<0.12 D	<0.47	<23 D	370	1,010	65
A2-6 6'	5/25/21	6'	<0.12 D	<0.48	<24 D	1,000	2,900	200
A2-6 8'	5/25/21	8'	<0.11 D	<0.46	<23 D	3,100	5,600	700
A2-6 10'	5/25/21	10'	<0.12 D	<0.49	<24 D	7,300	11,500	2200
A2-6 12'	5/25/21	12'	<0.024	<0.096	<4.8	<9.5	<47	2000
A2-7 Sur	4/20/21	Surface	<0.12	<0.49	<25	1,000	4,500	<59
A2-7 2'	4/20/21	2'	<0.12	<0.50	<25	3,600	6,700	<60
A2-7 4'	4/20/21	4'	<0.12	<0.50	63	10,000	15,800	<60
A2-7 6'	4/20/21	6'	<0.12	<0.50	86	4,500	8,400	<61
A2-7 8'	4/20/21	8'	<0.12	<0.50	<25	470	1,470	<60
A2-7 10'	5/25/21	10'	<0.024	<0.098	<4.9	<9.3	<47	<59
A2-8 Sur	4/20/21	Surface	<0.12	<0.50	<25	3,000	6,200	540
A2-8 1'	4/20/21	1'	<0.12	<0.49	<25	770	2,270	<60
A2-8 4'	5/25/21	4'	<0.12 D	<0.46	<23 D	100	680	<61
A2-9 Sur	4/20/21	Surface	<0.12	<0.49	<25	6,300	16,300	160
A2-9 2'	4/20/21	2'	<0.12	<0.48	<24	1,900	4,200	<60
A2-9 4'	4/20/21	4'	<0.12	<0.50	<25	240	1,130	110
A2-9 6'	5/25/21	6'	<0.12	<0.50	<25	520	1,820	<60
A2-9 8'	5/25/21	8'	<0.024	<0.097	<4.8	<9.5	<48	<60
A2-10 Sur	4/20/21	Surface	<0.12	<0.49	<25	4,900	9,500	2,400
A2-10 2'	4/20/21	2'	<0.12	<0.50	<25	230	1,010	<60
A2-10 4'	4/20/21	4'	<0.12	<0.50	<25	470	1,870	<61
A2-10 6'	5/25/21	6'	<0.025	<0.098	<4.9	1,600	4,300	<59
A2-10 8'	5/25/21	8'	<0.12	<0.49	<24	140	370	77

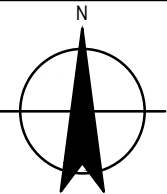
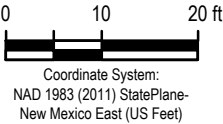
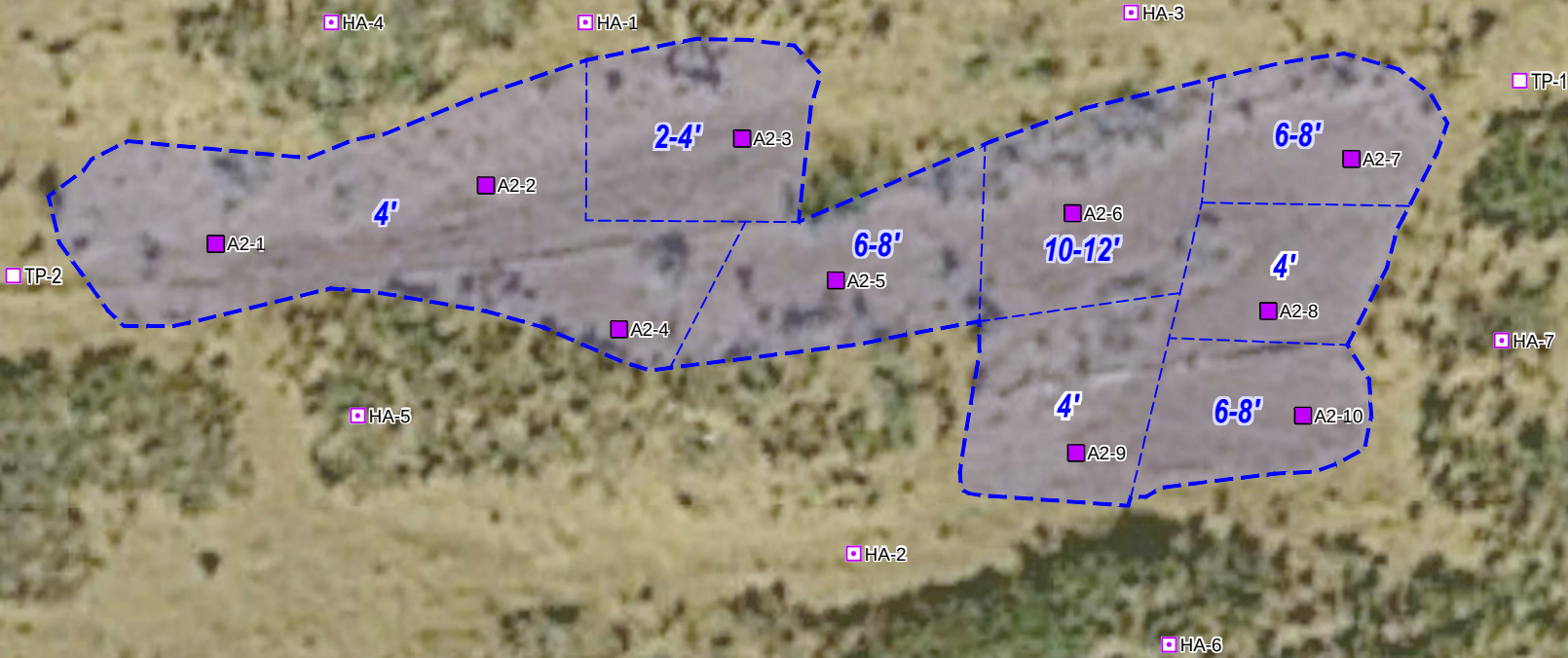
Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH		Total GRO/DRO/MRO	Chloride
					GRO (C6-C10)	DRO (C10-C28)		
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC					
			10 mg/Kg	50 mg/Kg	1,000 mg/Kg		2,500 mg/Kg	20,000 mg/Kg
Initial Assessment Samples								
HA1-S	5/25/21	Surface	<0.025	<0.099	<4.9	<9.2	<46	<59
HA1-2	5/25/21	2'	<0.024	<0.097	<4.9	<9.2	<46	<60
HA2-S	5/25/21	Surface	<0.025	<0.099	<5.0	<9.4	<47	<60
HA2-2	5/25/21	2'	<0.025	<0.10	<5.0	<9.5	<47	<60
HA3-S	5/25/21	Surface	<0.025	<0.098	<4.9	<9.5	<48	<60
HA3-2	5/25/21	2'	<0.025	<0.098	<4.9	<9.3	<47	<61
HA4-S	6/28/21	Surface	<0.024	<0.098	<4.9	<10	<50	<60
HA4-2	6/28/21	2'	<0.025	<0.099	<4.9	<9.9	<50	<60
HA5-S	6/28/21	Surface	<0.023	<0.092	<4.6	<9.2	<46	<61
HA5-2	6/28/21	2'	<0.023	<0.093	<4.7	<9.0	<45	<60
HA6-S	6/28/21	Surface	<0.024	<0.096	<4.8	<9.9	<49	<60
HA6-2	6/28/21	2'	<0.023	<0.091	<4.6	<8.7	<44	<60
HA7-S	6/28/21	Surface	<0.023	<0.093	<4.6	<10	<51	<60
HA7-2	6/28/21	2'	<0.024	<0.096	<4.8	<9.3	<47	<60
TP1-S	5/25/21	Surface	<0.024	<0.094	<4.7	<8.8	<44	<59
TP1-2	5/25/21	2'	<0.024	<0.095	<4.8	<9.7	<48	<61
TP2-S	5/25/21	Surface	<0.024	<0.098	<4.9	<9.3	<47	<60
TP2-2	5/25/21	2'	<0.024	<0.098	<4.9	<8.9	<44	<60

LEGEND

- PROPOSED EXCAVATED AREA
- TEST PIT LOCATION
- HAND AUGER LOCATION
- HAND AUGER/TEST PIT LOCATION
- DEPTH
- DEPTH OF SAMPLE (FT)
- BTEX
- BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)
- TPH
- TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)

NOTES:

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



EOG RESOURCES
EDDY COUNTY, NEW MEXICO JACKSON B
#17 FLOWLINE AREA 2

SITE ASSESSMENT AND
PROPOSED EXCAVATION AREA

Project No. 11228321
Date September 2021

FIGURE 2

Tables

Table 1
Summary of Soil Analytical Data
Jackson B #17 Flowline Area 2
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(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												
A2-1 Sur	4/20/21	Surface	<0.12	<0.24	<0.24	<0.49	<0.49	<24	3,000	3,700	6,700	820
A2-1 2'	4/20/21	2'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	900	2,200	3,100	78
A2-1 4'	4/20/21	4'	<0.12	<0.24	<0.24	<0.49	<0.49	<24	1,200	3,400	4,600	420
A2-1 5'	4/20/21	5'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	4,300	5,500	9,800	540
A2-1 6'	5/25/21	6'	<0.12	<0.25	<0.25	<0.50	<0.50	31	6,800	4,700	11,531	1100
A2-1 8'	5/25/21	8'	<0.12	<0.25	<0.25	<0.50	<0.50	29	3,400	2,100	5,529	2100
A2-1 10'	5/25/21	10'	<0.12 D	<0.24 D	<0.24 D	<0.49 D	<0.49	26	4,300	2,700	7,026	1300
A2-1 14'	5/25/21	14'	<0.12	<0.25	<0.25	<0.50	<0.50	120	7,200	4,000	11,320	4300
A2-1 16'	5/25/21	16'	<0.12	<0.25	<0.25	<0.49	<0.49	190	11,000	7,100	18,290	5100
A2-1 18'	5/25/21	18'	<0.12	<0.23	3.3	16	19.3	300	4,700	2,600	7,600	4400
A2-1 20'	5/25/21	20'	<0.12	<0.25	5.8	25	30.8	390	6,000	3,100	9,490	4500
A2-2 Sur	4/20/21	Surface	<0.12	<0.24	<0.24	<0.49	<0.49	<24	6,600	6,200	12,800	1,900
A2-2 2'	4/20/21	2'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	1,200	2,400	3,600	180
A2-2 4'	4/20/21	4'	<0.12	<0.25	<0.25	<0.49	<0.49	<25	200	730	930	340
A2-2 6'	5/25/21	6'	<0.12 D	<0.23 D	<0.23 D	<0.47 D	<0.47	<23 D	380	750	1,130	370
A2-2 8'	5/25/21	8'	<0.12 D	<0.24 D	<0.24 D	<0.48 D	<0.48	<24 D	520	860	1,380	170
A2-2 10'	5/25/21	10'	<0.12 D	<0.24 D	<0.24 D	<0.48 D	<0.48	<24 D	450	800	1,250	170
A2-3 Sur	4/20/21	0'	<0.12	<0.25	<0.25	<0.49	<0.49	<25	2,700	5,600	8,300	<60
A2-3 2'	4/20/21	2'	<0.12	<0.24	<0.24	<0.49	<0.49	<24	1,100	1,800	2,900	<60
A2-3 4'	5/25/21	4'	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.9	<49	<49	<60
A2-4 Sur	4/20/21	Surface	<0.12	<0.25	<0.25	<0.49	<0.49	<25	2,400	5,200	7,600	<60
A2-4 2'	4/20/21	2'	<0.12	<0.25	<0.25	<0.49	<0.49	<25	1,200	1,700	2,900	<60
A2-4 3'	4/20/21	3'	<0.12	<0.24	<0.24	<0.48	<0.48	<24	150	850	1,000	<60
A2-4 4'	5/25/21	4'	<0.12 D	<0.24 D	<0.24 D	<0.48 D	<0.48	<24 D	290	840	1,130	200
A2-5 Sur	4/20/21	Surface	<0.12	<0.25	<0.25	<0.49	<0.49	<25	4,600	8,200	12,800	<60
A2-5 2'	4/20/21	2'	<0.12	<0.24	<0.24	<0.49	<0.49	<24	290	1,300	1,590	<60
A2-5 4'	5/25/21	4'	<0.12 D	<0.24 D	<0.24 D	<0.48 D	<0.48	<24 D	3,300	3,800	7,100	<60
A2-5 6'	5/25/21	6'	<0.12 D	<0.24 D	<0.24 D	<0.48 D	<0.48	<24 D	2,700	2,200	4,900	140
A2-5 8'	5/25/21	8'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<49	<49	300
A2-6 Sur	4/20/21	Surface	<0.12	<0.25	<0.25	<0.49	<0.49	<25	4,100	6,200	10,300	82

Table 1
Summary of Soil Analytical Data
Jackson B #17 Flowline Area 2
EOG Resources
Eddy County, New Mexico

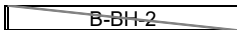
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg	---	2,500 mg/Kg	20,000 mg/Kg	
A2-6 2'	4/20/21	2'	<0.12	<0.24	<0.24	<0.49	<0.49	<24	150	670	820	<60
A2-6 4'	5/25/21	4'	<0.12 D	<0.23 D	<0.23 D	<0.47 D	<0.47	<23 D	370	640	1,010	65
A2-6 6'	5/25/21	6'	<0.12 D	<0.24 D	<0.24 D	<0.48 D	<0.48	<24 D	1,000	1,900	2,900	200
A2-6 8'	5/25/21	8'	<0.11 D	<0.23 D	<0.23 D	<0.46 D	<0.46	<23 D	3,100	2,500	5,600	700
A2-6 10'	5/25/21	10'	<0.12 D	<0.24 D	<0.24 D	<0.49 D	<0.49	<24 D	7,300	4,200	11,500	2200
A2-6 12'	5/25/21	12'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<47	<47	2000
A2-7 Sur'	4/20/21	Surface	<0.12	<0.25	<0.25	<0.49	<0.49	<25	1,000	3,500	4,500	<59
A2-7 2'	4/20/21	2'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	3,600	3,100	6,700	<60
A2-7 4'	4/20/21	4'	<0.12	<0.25	<0.25	<0.50	<0.50	63	10,000	5,800	15,800	<60
A2-7 6'	4/20/21	6'	<0.12	<0.25	<0.25	<0.50	<0.50	86	4,500	3,900	8,400	<61
A2-7 8'	4/20/21	8'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	470	1,000	1,470	<60
A2-7 10'	5/25/21	10'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	<59
A2-8 Sur	4/20/21	Surface	<0.12	<0.25	<0.25	<0.50	<0.50	<25	3,000	3,200	6,200	540
A2-8 1'	4/20/21	1'	<0.12	<0.25	<0.25	<0.49	<0.49	<25	770	1,500	2,270	<60
A2-8 4'	5/25/21	4'	<0.12 D	<0.23 D	<0.23 D	<0.46 D	<0.46	<23 D	100	580	680	<61
A2-9 Sur	4/20/21	Surface	<0.12	<0.25	<0.25	<0.49	<0.49	<25	6,300	10,000	16,300	160
A2-9 2'	4/20/21	2'	<0.12	<0.24	<0.24	<0.48	<0.48	<24	1,900	2,300	4,200	<60
A2-9 4'	4/20/21	4'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	240	890	1,130	110
A2-9 6'	5/25/21	6'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	520	1,300	1,820	<60
A2-9 8'	5/25/21	8'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<48	<48	<60
A2-10 Sur	4/20/21	Surface	<0.12	<0.25	<0.25	<0.49	<0.49	<25	4,900	4,600	9,500	2,400
A2-10 2'	4/20/21	2'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	230	780	1,010	<60
A2-10 4'	4/20/21	4'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	470	1,400	1,870	<61
A2-10 6'	5/25/21	6'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	1,600	2,700	4,300	<59
A2-10 8'	5/25/21	8'	<0.12	<0.24	<0.24	<0.49	<0.49	<24	140	230	370	77
HA1-S	5/25/21	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	<59
HA1-2	5/25/21	2'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.2	<46	<46	<60
HA2-S	5/25/21	Surface	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	<60
HA2-2	5/25/21	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<47	<47	<60
HA3-S	5/25/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	<60

Table 1
Summary of Soil Analytical Data
Jackson B #17 Flowline Area 2
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(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	
HA3-2	5/25/21	2'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	<61
HA4-S	6/28/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	<60
HA4-2	6/28/21	2'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	<60
HA5-S	6/28/21	Surface	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.2	<46	<46	<61
HA5-2	6/28/21	2'	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.0	<45	<45	<60
HA6-S	6/28/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<49	<49	<60
HA6-2	6/28/21	2'	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<8.7	<44	<44	<60
HA7-S	6/28/21	Surface	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<10	<51	<51	<60
HA7-2	6/28/21	2'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<47	<47	<60
TP1-S	5/25/21	Surface	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<8.8	<44	<44	<59
TP1-2	5/25/21	2'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.7	<48	<48	<61
TP2-S	5/25/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	<60
TP2-2	5/25/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.9	<44	<44	<60

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.
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.

 Sample Point Excavated

Attachment A

Site Characterization Documentation

EOG Jackson B#59

Eddy County, New Mexico

Legend

 32.85697,-103.92703

32.85697,-103.92703

 Jackson B#59 Temp Well

Square Lake Rd
220

Google Earth



1000 ft



BORING LOG

Project No.: 700438.238.01

Weather: Clear, Temp.: 75°F

Driller: D. Londagin

Site Name: Jackson B #59

Logger: D. Adkins

Rig Type: Reich Drill

Location: Eddy County, New Mexico

Field Instrument: NA

Bit Size: 5-7/8"

Date: 5/18/2021

Latitude: 32.85697 N

Drilling Method: Air Rotary

Boring Number: B-1

Longitude: -103.92703 W

Sample Retrieval Method: Drill Cuttings

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
	☐	0-30'				Red/brown fine Sand (SP)	<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: _____

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

Logger Initials: DJA

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

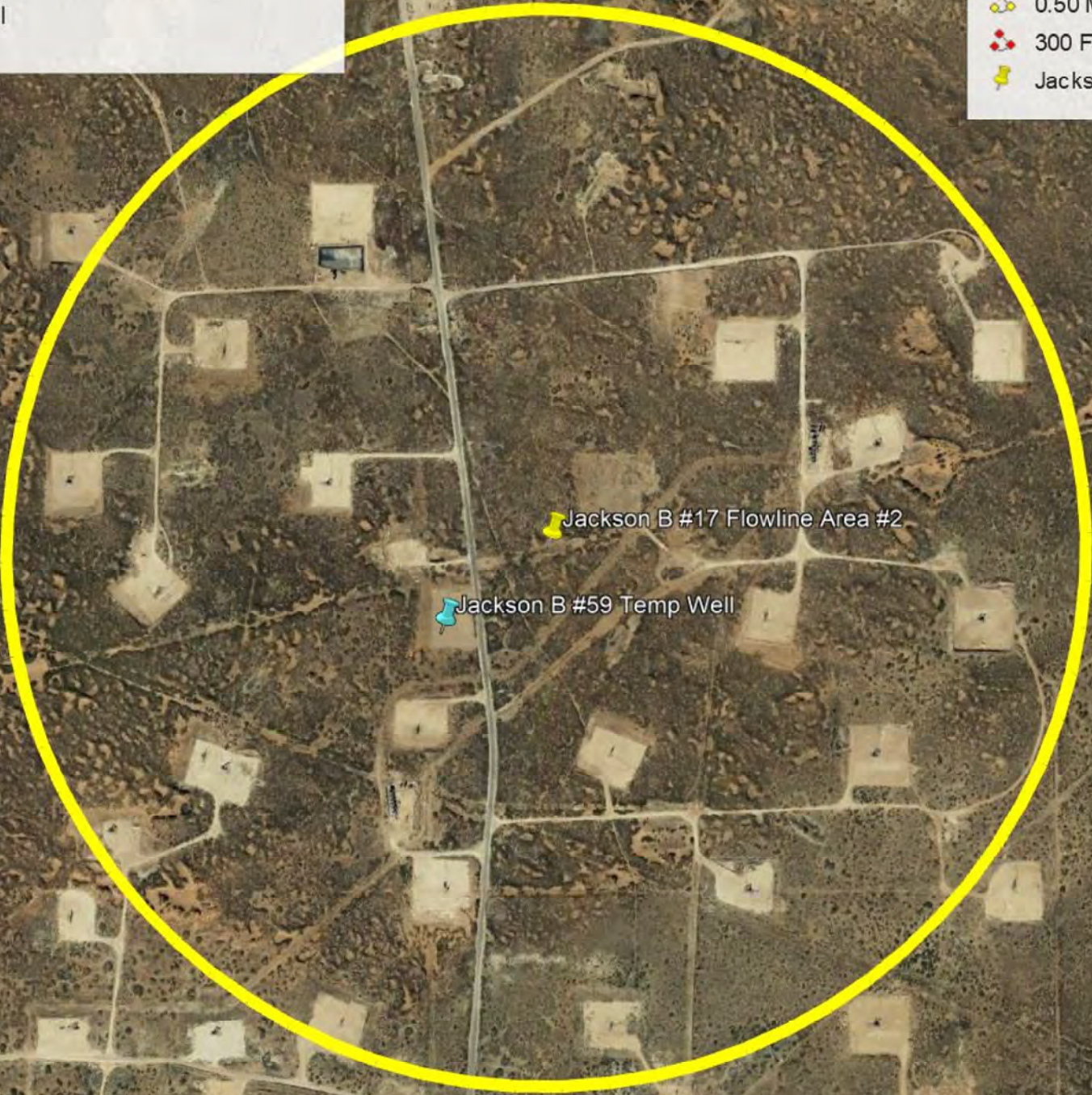
Notes:

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 Solinst 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.

Jackson B #17 Flowline Area #2
Jackson B #59 Temp Well

Legend

- 0.50 Mile Radius
- 300 Foot Radius
- Jackson B #17 Flowline Area #2



Jackson B #17 Flowline Area #2

Jackson B #59 Temp Well

Jackson B #17 Flowline Area #2

Harst Potential Map

Legend

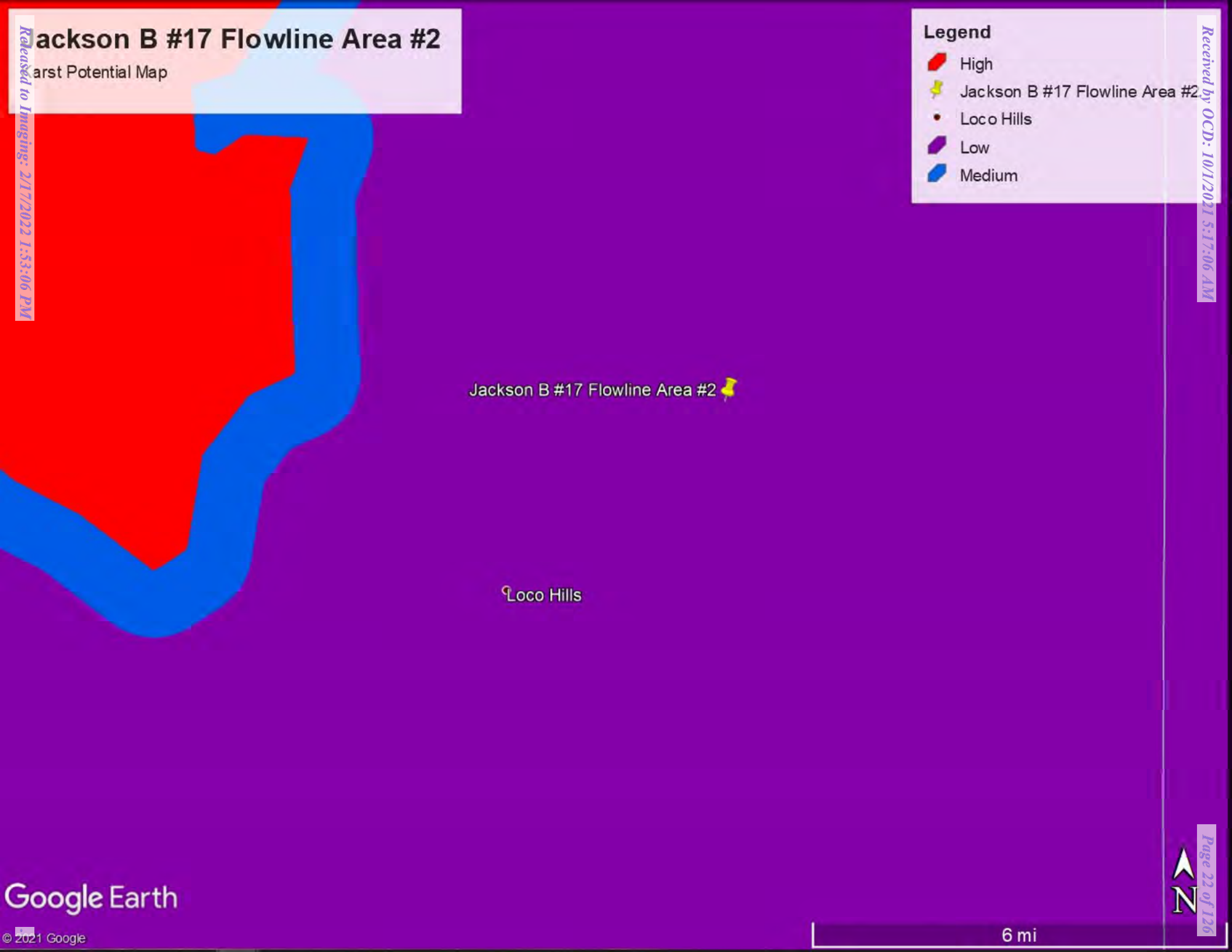
 High

 Jackson B #17 Flowline Area #2

 Loco Hills

 Low

 Medium



Jackson B #17 Flowline Area #2

Loco Hills

Jackson B #17 Flowline Area #2

Significant Watercourse Map

Legend

- 0.50 Mile Radius
- 300 Foot Radius
- Jackson B #17 Flowline Area #2

Jackson B #17 Flowline Area #2

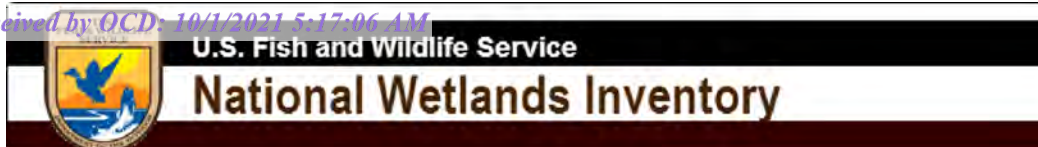
11

12

7

6

1



Jackson B #17 Flowline Area #2



September 26, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub 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 Flood Hazard Layer FIRMMette



103°55'50"W 32°51'44"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/26/2021 at 12:09 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Attachment B

Laboratory Analytical Reports and Chain-of-Custody Documentation



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

April 29, 2021

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Jackson B 17

OrderNo.: 2104974

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 29 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-1 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 1:27:00 PM

Lab ID: 2104974-001

Matrix: SOIL

Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	820	61		mg/Kg	20	4/27/2021 3:24:24 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3000	490		mg/Kg	50	4/23/2021 5:11:56 PM	59585
Motor Oil Range Organics (MRO)	3700	2500		mg/Kg	50	4/23/2021 5:11:56 PM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 5:11:56 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/26/2021 9:10:16 AM	59580
Surr: BFB	100	70-130	D	%Rec	5	4/26/2021 9:10:16 AM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 9:10:16 AM	59580
Toluene	ND	0.24	D	mg/Kg	5	4/26/2021 9:10:16 AM	59580
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/26/2021 9:10:16 AM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 9:10:16 AM	59580
Surr: 4-Bromofluorobenzene	102	70-130	D	%Rec	5	4/26/2021 9:10:16 AM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-1 2'

Project: Jackson B 17

Collection Date: 4/20/2021 1:31:00 PM

Lab ID: 2104974-002

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	78	60		mg/Kg	20	4/27/2021 3:36:49 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	900	99		mg/Kg	10	4/26/2021 11:48:28 AM	59585
Motor Oil Range Organics (MRO)	2200	500		mg/Kg	10	4/26/2021 11:48:28 AM	59585
Surr: DNOP	0	70-130	S	%Rec	10	4/26/2021 11:48:28 AM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 10:21:20 AM	59580
Surr: BFB	101	70-130	D	%Rec	5	4/26/2021 10:21:20 AM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 10:21:20 AM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 10:21:20 AM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 10:21:20 AM	59580
Xylenes, Total	ND	0.50	D	mg/Kg	5	4/26/2021 10:21:20 AM	59580
Surr: 4-Bromofluorobenzene	102	70-130	D	%Rec	5	4/26/2021 10:21:20 AM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-1 4'

Project: Jackson B 17

Collection Date: 4/20/2021 1:35:00 PM

Lab ID: 2104974-003

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	420	60		mg/Kg	20	4/27/2021 3:49:13 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1200	500		mg/Kg	50	4/23/2021 6:03:25 PM	59585
Motor Oil Range Organics (MRO)	3400	2500		mg/Kg	50	4/23/2021 6:03:25 PM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 6:03:25 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/26/2021 11:32:32 AM	59580
Surr: BFB	103	70-130	D	%Rec	5	4/26/2021 11:32:32 AM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 11:32:32 AM	59580
Toluene	ND	0.24	D	mg/Kg	5	4/26/2021 11:32:32 AM	59580
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/26/2021 11:32:32 AM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 11:32:32 AM	59580
Surr: 4-Bromofluorobenzene	105	70-130	D	%Rec	5	4/26/2021 11:32:32 AM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-1 5'

Project: Jackson B 17

Collection Date: 4/20/2021 1:38:00 PM

Lab ID: 2104974-004

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	540	60		mg/Kg	20	4/27/2021 4:01:38 AM	59643
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4300	490		mg/Kg	50	4/23/2021 6:29:35 PM	59585
Motor Oil Range Organics (MRO)	5500	2400		mg/Kg	50	4/23/2021 6:29:35 PM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 6:29:35 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 11:55:59 AM	59580
Surr: BFB	105	70-130	D	%Rec	5	4/26/2021 11:55:59 AM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 11:55:59 AM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 11:55:59 AM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 11:55:59 AM	59580
Xylenes, Total	ND	0.50	D	mg/Kg	5	4/26/2021 11:55:59 AM	59580
Surr: 4-Bromofluorobenzene	105	70-130	D	%Rec	5	4/26/2021 11:55:59 AM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-2 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 1:40:00 PM

Lab ID: 2104974-005

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	1900	60		mg/Kg	20	4/27/2021 2:10:07 PM	59647
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	6600	470		mg/Kg	50	4/23/2021 6:55:48 PM	59585
Motor Oil Range Organics (MRO)	6200	2300		mg/Kg	50	4/23/2021 6:55:48 PM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 6:55:48 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/26/2021 12:19:35 PM	59580
Surr: BFB	104	70-130	D	%Rec	5	4/26/2021 12:19:35 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 12:19:35 PM	59580
Toluene	ND	0.24	D	mg/Kg	5	4/26/2021 12:19:35 PM	59580
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/26/2021 12:19:35 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 12:19:35 PM	59580
Surr: 4-Bromofluorobenzene	109	70-130	D	%Rec	5	4/26/2021 12:19:35 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-2 2'

Project: Jackson B 17

Collection Date: 4/20/2021 1:44:00 PM

Lab ID: 2104974-006

Matrix: SOIL

Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	180	59		mg/Kg	20	4/27/2021 2:47:09 PM	59647
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1200	480		mg/Kg	50	4/23/2021 7:22:00 PM	59585
Motor Oil Range Organics (MRO)	2400	2400		mg/Kg	50	4/23/2021 7:22:00 PM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 7:22:00 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 12:43:17 PM	59580
Surr: BFB	102	70-130	D	%Rec	5	4/26/2021 12:43:17 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 12:43:17 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 12:43:17 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 12:43:17 PM	59580
Xylenes, Total	ND	0.50	D	mg/Kg	5	4/26/2021 12:43:17 PM	59580
Surr: 4-Bromofluorobenzene	105	70-130	D	%Rec	5	4/26/2021 12:43:17 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-2 4'

Project: Jackson B 17

Collection Date: 4/20/2021 1:48:00 PM

Lab ID: 2104974-007

Matrix: SOIL

Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	340	59		mg/Kg	20	4/27/2021 3:24:12 PM	59647
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	200	9.9		mg/Kg	1	4/26/2021 9:04:32 AM	59585
Motor Oil Range Organics (MRO)	730	49		mg/Kg	1	4/26/2021 9:04:32 AM	59585
Surr: DNOP	93.4	70-130		%Rec	1	4/26/2021 9:04:32 AM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 1:06:52 PM	59580
Surr: BFB	100	70-130	D	%Rec	5	4/26/2021 1:06:52 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 1:06:52 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 1:06:52 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 1:06:52 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 1:06:52 PM	59580
Surr: 4-Bromofluorobenzene	104	70-130	D	%Rec	5	4/26/2021 1:06:52 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-3 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 1:48:00 PM

Lab ID: 2104974-008

Matrix: SOIL

Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	4/27/2021 3:36:33 PM	59647
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2700	470		mg/Kg	50	4/23/2021 8:14:10 PM	59585
Motor Oil Range Organics (MRO)	5600	2400		mg/Kg	50	4/23/2021 8:14:10 PM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 8:14:10 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 1:30:42 PM	59580
Surr: BFB	100	70-130	D	%Rec	5	4/26/2021 1:30:42 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 1:30:42 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 1:30:42 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 1:30:42 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 1:30:42 PM	59580
Surr: 4-Bromofluorobenzene	101	70-130	D	%Rec	5	4/26/2021 1:30:42 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-3 2"

Project: Jackson B 17

Collection Date: 4/20/2021 1:52:00 PM

Lab ID: 2104974-009

Matrix: SOIL

Received Date: 4/22/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	4/27/2021 3:32:40 PM	59646
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	1100	94		mg/Kg	10	4/26/2021 12:54:02 PM	59585
Motor Oil Range Organics (MRO)	1800	470		mg/Kg	10	4/26/2021 12:54:02 PM	59585
Surr: DNOP	0	70-130	S	%Rec	10	4/26/2021 12:54:02 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/26/2021 1:54:15 PM	59580
Surr: BFB	102	70-130	D	%Rec	5	4/26/2021 1:54:15 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 1:54:15 PM	59580
Toluene	ND	0.24	D	mg/Kg	5	4/26/2021 1:54:15 PM	59580
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/26/2021 1:54:15 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 1:54:15 PM	59580
Surr: 4-Bromofluorobenzene	103	70-130	D	%Rec	5	4/26/2021 1:54:15 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-4 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 1:54:00 PM

Lab ID: 2104974-010

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	ND	60		mg/Kg	20	4/27/2021 3:45:05 PM	59646
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2400	470		mg/Kg	50	4/23/2021 9:05:59 PM	59585
Motor Oil Range Organics (MRO)	5200	2400		mg/Kg	50	4/23/2021 9:05:59 PM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 9:05:59 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 2:17:50 PM	59580
Surr: BFB	100	70-130	D	%Rec	5	4/26/2021 2:17:50 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 2:17:50 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 2:17:50 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 2:17:50 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 2:17:50 PM	59580
Surr: 4-Bromofluorobenzene	103	70-130	D	%Rec	5	4/26/2021 2:17:50 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-4 2'

Project: Jackson B 17

Collection Date: 4/20/2021 1:58:00 PM

Lab ID: 2104974-011

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	ND	60		mg/Kg	20	4/27/2021 3:57:29 PM	59646
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	1200	92		mg/Kg	10	4/26/2021 1:47:25 PM	59585
Motor Oil Range Organics (MRO)	1700	460		mg/Kg	10	4/26/2021 1:47:25 PM	59585
Surr: DNOP	0	70-130	S	%Rec	10	4/26/2021 1:47:25 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 3:52:17 PM	59580
Surr: BFB	101	70-130	D	%Rec	5	4/26/2021 3:52:17 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 3:52:17 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 3:52:17 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 3:52:17 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 3:52:17 PM	59580
Surr: 4-Bromofluorobenzene	104	70-130	D	%Rec	5	4/26/2021 3:52:17 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-4 3'

Project: Jackson B 17

Collection Date: 4/20/2021 2:00:00 PM

Lab ID: 2104974-012

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	ND	60		mg/Kg	20	4/27/2021 4:34:42 PM	59660
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	150	98		mg/Kg	10	4/26/2021 3:34:54 PM	59585
Motor Oil Range Organics (MRO)	850	490		mg/Kg	10	4/26/2021 3:34:54 PM	59585
Surr: DNOP	0	70-130	S	%Rec	10	4/26/2021 3:34:54 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/26/2021 4:15:56 PM	59580
Surr: BFB	102	70-130	D	%Rec	5	4/26/2021 4:15:56 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 4:15:56 PM	59580
Toluene	ND	0.24	D	mg/Kg	5	4/26/2021 4:15:56 PM	59580
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/26/2021 4:15:56 PM	59580
Xylenes, Total	ND	0.48	D	mg/Kg	5	4/26/2021 4:15:56 PM	59580
Surr: 4-Bromofluorobenzene	105	70-130	D	%Rec	5	4/26/2021 4:15:56 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-5 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 2:01:00 PM

Lab ID: 2104974-013

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	ND	60		mg/Kg	20	4/27/2021 4:47:07 PM	59660
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4600	490		mg/Kg	50	4/23/2021 10:22:35 PM	59585
Motor Oil Range Organics (MRO)	8200	2400		mg/Kg	50	4/23/2021 10:22:35 PM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 10:22:35 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 4:39:27 PM	59580
Surr: BFB	101	70-130	D	%Rec	5	4/26/2021 4:39:27 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 4:39:27 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 4:39:27 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 4:39:27 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 4:39:27 PM	59580
Surr: 4-Bromofluorobenzene	103	70-130	D	%Rec	5	4/26/2021 4:39:27 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-5 2'

Project: Jackson B 17

Collection Date: 4/20/2021 2:05:00 PM

Lab ID: 2104974-014

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	ND	60		mg/Kg	20	4/27/2021 4:59:31 PM	59660
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	290	97		mg/Kg	10	4/26/2021 10:57:32 AM	59585
Motor Oil Range Organics (MRO)	1300	480		mg/Kg	10	4/26/2021 10:57:32 AM	59585
Surr: DNOP	0	70-130	S	%Rec	10	4/26/2021 10:57:32 AM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/26/2021 5:02:55 PM	59580
Surr: BFB	101	70-130	D	%Rec	5	4/26/2021 5:02:55 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 5:02:55 PM	59580
Toluene	ND	0.24	D	mg/Kg	5	4/26/2021 5:02:55 PM	59580
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/26/2021 5:02:55 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 5:02:55 PM	59580
Surr: 4-Bromofluorobenzene	104	70-130	D	%Rec	5	4/26/2021 5:02:55 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-6 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 2:05:00 PM

Lab ID: 2104974-015

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	82	59		mg/Kg	20	4/27/2021 5:36:45 PM	59660
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4100	460		mg/Kg	50	4/23/2021 11:25:15 PM	59585
Motor Oil Range Organics (MRO)	6200	2300		mg/Kg	50	4/23/2021 11:25:15 PM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/23/2021 11:25:15 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 5:26:41 PM	59580
Surr: BFB	100	70-130	D	%Rec	5	4/26/2021 5:26:41 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 5:26:41 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 5:26:41 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 5:26:41 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 5:26:41 PM	59580
Surr: 4-Bromofluorobenzene	103	70-130	D	%Rec	5	4/26/2021 5:26:41 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-6 2'

Project: Jackson B 17

Collection Date: 4/20/2021 2:09:00 PM

Lab ID: 2104974-016

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	ND	60		mg/Kg	20	4/27/2021 5:49:09 PM	59660
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	150	9.5		mg/Kg	1	4/27/2021 9:44:22 PM	59585
Motor Oil Range Organics (MRO)	670	48		mg/Kg	1	4/27/2021 9:44:22 PM	59585
Surr: DNOP	110	70-130		%Rec	1	4/27/2021 9:44:22 PM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	4/26/2021 5:50:18 PM	59580
Surr: BFB	100	70-130	D	%Rec	5	4/26/2021 5:50:18 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 5:50:18 PM	59580
Toluene	ND	0.24	D	mg/Kg	5	4/26/2021 5:50:18 PM	59580
Ethylbenzene	ND	0.24	D	mg/Kg	5	4/26/2021 5:50:18 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 5:50:18 PM	59580
Surr: 4-Bromofluorobenzene	102	70-130	D	%Rec	5	4/26/2021 5:50:18 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-7 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 2:15:00 PM

Lab ID: 2104974-017

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	ND	59		mg/Kg	20	4/27/2021 6:01:33 PM	59660
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1000	460		mg/Kg	50	4/24/2021 12:14:43 AM	59585
Motor Oil Range Organics (MRO)	3500	2300		mg/Kg	50	4/24/2021 12:14:43 AM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/24/2021 12:14:43 AM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 6:13:50 PM	59580
Surr: BFB	100	70-130	D	%Rec	5	4/26/2021 6:13:50 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 6:13:50 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 6:13:50 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 6:13:50 PM	59580
Xylenes, Total	ND	0.49	D	mg/Kg	5	4/26/2021 6:13:50 PM	59580
Surr: 4-Bromofluorobenzene	101	70-130	D	%Rec	5	4/26/2021 6:13:50 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-7 2'

Project: Jackson B 17

Collection Date: 4/20/2021 2:19:00 PM

Lab ID: 2104974-018

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	ND	60		mg/Kg	20	4/27/2021 6:13:58 PM	59660
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3600	470		mg/Kg	50	4/24/2021 12:39:18 AM	59585
Motor Oil Range Organics (MRO)	3100	2300		mg/Kg	50	4/24/2021 12:39:18 AM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/24/2021 12:39:18 AM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25	D	mg/Kg	5	4/26/2021 6:37:25 PM	59580
Surr: BFB	122	70-130	D	%Rec	5	4/26/2021 6:37:25 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 6:37:25 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 6:37:25 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 6:37:25 PM	59580
Xylenes, Total	ND	0.50	D	mg/Kg	5	4/26/2021 6:37:25 PM	59580
Surr: 4-Bromofluorobenzene	106	70-130	D	%Rec	5	4/26/2021 6:37:25 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-7 4'

Project: Jackson B 17

Collection Date: 4/20/2021 2:23:00 PM

Lab ID: 2104974-019

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	ND	60		mg/Kg	20	4/27/2021 6:26:22 PM	59660
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	10000	470		mg/Kg	50	4/24/2021 1:03:41 AM	59585
Motor Oil Range Organics (MRO)	5800	2300		mg/Kg	50	4/24/2021 1:03:41 AM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/24/2021 1:03:41 AM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	63	25		mg/Kg	5	4/26/2021 7:00:55 PM	59580
Surr: BFB	195	70-130	S	%Rec	5	4/26/2021 7:00:55 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 7:00:55 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 7:00:55 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 7:00:55 PM	59580
Xylenes, Total	ND	0.50	D	mg/Kg	5	4/26/2021 7:00:55 PM	59580
Surr: 4-Bromofluorobenzene	111	70-130	D	%Rec	5	4/26/2021 7:00:55 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-7 6'

Project: Jackson B 17

Collection Date: 4/20/2021 2:27:00 PM

Lab ID: 2104974-020

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	ND	61		mg/Kg	20	4/27/2021 6:38:46 PM	59660
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4500	500		mg/Kg	50	4/24/2021 1:27:54 AM	59585
Motor Oil Range Organics (MRO)	3900	2500		mg/Kg	50	4/24/2021 1:27:54 AM	59585
Surr: DNOP	0	70-130	S	%Rec	50	4/24/2021 1:27:54 AM	59585
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	86	25		mg/Kg	5	4/26/2021 7:24:31 PM	59580
Surr: BFB	216	70-130	S	%Rec	5	4/26/2021 7:24:31 PM	59580
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	4/26/2021 7:24:31 PM	59580
Toluene	ND	0.25	D	mg/Kg	5	4/26/2021 7:24:31 PM	59580
Ethylbenzene	ND	0.25	D	mg/Kg	5	4/26/2021 7:24:31 PM	59580
Xylenes, Total	ND	0.50	D	mg/Kg	5	4/26/2021 7:24:31 PM	59580
Surr: 4-Bromofluorobenzene	113	70-130	D	%Rec	5	4/26/2021 7:24:31 PM	59580

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-7 8'

Project: Jackson B 17

Collection Date: 4/20/2021 2:29:00 PM

Lab ID: 2104974-021

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	ND	60		mg/Kg	20	4/27/2021 6:51:10 PM	59660
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/27/2021 4:12:13 PM	59589
Surr: BFB	108	70-130		%Rec	5	4/27/2021 4:12:13 PM	59589
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	470	95		mg/Kg	10	4/27/2021 11:48:19 PM	59603
Motor Oil Range Organics (MRO)	1000	470		mg/Kg	10	4/27/2021 11:48:19 PM	59603
Surr: DNOP	0	70-130	S	%Rec	10	4/27/2021 11:48:19 PM	59603
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	4/27/2021 4:12:13 PM	59589
Benzene	ND	0.12		mg/Kg	5	4/27/2021 4:12:13 PM	59589
Toluene	ND	0.25		mg/Kg	5	4/27/2021 4:12:13 PM	59589
Ethylbenzene	ND	0.25		mg/Kg	5	4/27/2021 4:12:13 PM	59589
Xylenes, Total	ND	0.50		mg/Kg	5	4/27/2021 4:12:13 PM	59589
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%Rec	5	4/27/2021 4:12:13 PM	59589
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	5	4/27/2021 4:12:13 PM	59589
Surr: Dibromofluoromethane	107	70-130		%Rec	5	4/27/2021 4:12:13 PM	59589
Surr: Toluene-d8	95.7	70-130		%Rec	5	4/27/2021 4:12:13 PM	59589

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

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

Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-8 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 2:31:00 PM

Lab ID: 2104974-022

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	540	60		mg/Kg	20	4/27/2021 7:03:35 PM	59660
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/27/2021 5:38:49 PM	59589
Surr: BFB	112	70-130		%Rec	5	4/27/2021 5:38:49 PM	59589
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	3000	94		mg/Kg	10	4/26/2021 4:25:31 PM	59603
Motor Oil Range Organics (MRO)	3200	470		mg/Kg	10	4/26/2021 4:25:31 PM	59603
Surr: DNOP	0	70-130	S	%Rec	10	4/26/2021 4:25:31 PM	59603
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	4/27/2021 5:38:49 PM	59589
Benzene	ND	0.12		mg/Kg	5	4/27/2021 5:38:49 PM	59589
Toluene	ND	0.25		mg/Kg	5	4/27/2021 5:38:49 PM	59589
Ethylbenzene	ND	0.25		mg/Kg	5	4/27/2021 5:38:49 PM	59589
Xylenes, Total	ND	0.50		mg/Kg	5	4/27/2021 5:38:49 PM	59589
Surr: 1,2-Dichloroethane-d4	84.2	70-130		%Rec	5	4/27/2021 5:38:49 PM	59589
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	5	4/27/2021 5:38:49 PM	59589
Surr: Dibromofluoromethane	98.4	70-130		%Rec	5	4/27/2021 5:38:49 PM	59589
Surr: Toluene-d8	104	70-130		%Rec	5	4/27/2021 5:38:49 PM	59589

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

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

Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-8 1'

Project: Jackson B 17

Collection Date: 4/20/2021 2:33:00 PM

Lab ID: 2104974-023

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	ND	60		mg/Kg	20	4/27/2021 7:16:00 PM	59660
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/27/2021 7:05:58 PM	59589
Surr: BFB	109	70-130		%Rec	5	4/27/2021 7:05:58 PM	59589
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	770	96		mg/Kg	10	4/26/2021 5:15:46 PM	59603
Motor Oil Range Organics (MRO)	1500	480		mg/Kg	10	4/26/2021 5:15:46 PM	59603
Surr: DNOP	0	70-130	S	%Rec	10	4/26/2021 5:15:46 PM	59603
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	4/27/2021 7:05:58 PM	59589
Benzene	ND	0.12		mg/Kg	5	4/27/2021 7:05:58 PM	59589
Toluene	ND	0.25		mg/Kg	5	4/27/2021 7:05:58 PM	59589
Ethylbenzene	ND	0.25		mg/Kg	5	4/27/2021 7:05:58 PM	59589
Xylenes, Total	ND	0.49		mg/Kg	5	4/27/2021 7:05:58 PM	59589
Surr: 1,2-Dichloroethane-d4	82.5	70-130		%Rec	5	4/27/2021 7:05:58 PM	59589
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	5	4/27/2021 7:05:58 PM	59589
Surr: Dibromofluoromethane	104	70-130		%Rec	5	4/27/2021 7:05:58 PM	59589
Surr: Toluene-d8	97.4	70-130		%Rec	5	4/27/2021 7:05:58 PM	59589

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-9 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 2:37:00 PM

Lab ID: 2104974-024

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	160	60		mg/Kg	20	4/27/2021 7:28:24 PM	59660
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/27/2021 7:35:06 PM	59589
Surr: BFB	107	70-130		%Rec	5	4/27/2021 7:35:06 PM	59589
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	6300	960		mg/Kg	100	4/27/2021 11:23:47 PM	59603
Motor Oil Range Organics (MRO)	10000	4800		mg/Kg	100	4/27/2021 11:23:47 PM	59603
Surr: DNOP	0	70-130	S	%Rec	100	4/27/2021 11:23:47 PM	59603
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	4/27/2021 7:35:06 PM	59589
Benzene	ND	0.12		mg/Kg	5	4/27/2021 7:35:06 PM	59589
Toluene	ND	0.25		mg/Kg	5	4/27/2021 7:35:06 PM	59589
Ethylbenzene	ND	0.25		mg/Kg	5	4/27/2021 7:35:06 PM	59589
Xylenes, Total	ND	0.49		mg/Kg	5	4/27/2021 7:35:06 PM	59589
Surr: 1,2-Dichloroethane-d4	85.4	70-130		%Rec	5	4/27/2021 7:35:06 PM	59589
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	5	4/27/2021 7:35:06 PM	59589
Surr: Dibromofluoromethane	104	70-130		%Rec	5	4/27/2021 7:35:06 PM	59589
Surr: Toluene-d8	104	70-130		%Rec	5	4/27/2021 7:35:06 PM	59589

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

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

Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-9 2'

Project: Jackson B 17

Collection Date: 4/20/2021 2:41:00 PM

Lab ID: 2104974-025

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	ND	60		mg/Kg	20	4/27/2021 1:53:26 PM	59646
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	4/28/2021 5:50:00 PM	59589
Surr: BFB	106	70-130		%Rec	5	4/28/2021 5:50:00 PM	59589
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	1900	96		mg/Kg	10	4/26/2021 6:17:51 PM	59603
Motor Oil Range Organics (MRO)	2300	480		mg/Kg	10	4/26/2021 6:17:51 PM	59603
Surr: DNOP	0	70-130	S	%Rec	10	4/26/2021 6:17:51 PM	59603
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Methyl tert-butyl ether (MTBE)	ND	0.24		mg/Kg	5	4/28/2021 5:50:00 PM	59589
Benzene	ND	0.12		mg/Kg	5	4/28/2021 5:50:00 PM	59589
Toluene	ND	0.24		mg/Kg	5	4/28/2021 5:50:00 PM	59589
Ethylbenzene	ND	0.24		mg/Kg	5	4/28/2021 5:50:00 PM	59589
Xylenes, Total	ND	0.48		mg/Kg	5	4/28/2021 5:50:00 PM	59589
Surr: 1,2-Dichloroethane-d4	87.6	70-130		%Rec	5	4/28/2021 5:50:00 PM	59589
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	5	4/28/2021 5:50:00 PM	59589
Surr: Dibromofluoromethane	101	70-130		%Rec	5	4/28/2021 5:50:00 PM	59589
Surr: Toluene-d8	103	70-130		%Rec	5	4/28/2021 5:50:00 PM	59589

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-9 4'

Project: Jackson B 17

Collection Date: 4/20/2021 2:45:00 PM

Lab ID: 2104974-026

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	110	60		mg/Kg	20	4/27/2021 2:30:38 PM	59646
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/27/2021 8:33:15 PM	59589
Surr: BFB	105	70-130		%Rec	5	4/27/2021 8:33:15 PM	59589
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	240	9.9		mg/Kg	1	4/27/2021 10:34:17 PM	59603
Motor Oil Range Organics (MRO)	890	50		mg/Kg	1	4/27/2021 10:34:17 PM	59603
Surr: DNOP	84.7	70-130		%Rec	1	4/27/2021 10:34:17 PM	59603
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.12		mg/Kg	5	4/27/2021 8:33:15 PM	59589
Toluene	ND	0.25		mg/Kg	5	4/27/2021 8:33:15 PM	59589
Ethylbenzene	ND	0.25		mg/Kg	5	4/27/2021 8:33:15 PM	59589
Xylenes, Total	ND	0.50		mg/Kg	5	4/27/2021 8:33:15 PM	59589
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	5	4/27/2021 8:33:15 PM	59589
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	5	4/27/2021 8:33:15 PM	59589
Surr: Dibromofluoromethane	103	70-130		%Rec	5	4/27/2021 8:33:15 PM	59589
Surr: Toluene-d8	97.3	70-130		%Rec	5	4/27/2021 8:33:15 PM	59589

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-10 Sur

Project: Jackson B 17

Collection Date: 4/20/2021 2:47:00 PM

Lab ID: 2104974-027

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	2400	150		mg/Kg	50	4/28/2021 8:09:44 AM	59660
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/27/2021 9:02:16 PM	59589
Surr: BFB	107	70-130		%Rec	5	4/27/2021 9:02:16 PM	59589
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	4900	460		mg/Kg	50	4/26/2021 7:55:58 PM	59603
Motor Oil Range Organics (MRO)	4600	2300		mg/Kg	50	4/26/2021 7:55:58 PM	59603
Surr: DNOP	0	70-130	S	%Rec	50	4/26/2021 7:55:58 PM	59603
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	4/27/2021 9:02:16 PM	59589
Benzene	ND	0.12		mg/Kg	5	4/27/2021 9:02:16 PM	59589
Toluene	ND	0.25		mg/Kg	5	4/27/2021 9:02:16 PM	59589
Ethylbenzene	ND	0.25		mg/Kg	5	4/27/2021 9:02:16 PM	59589
Xylenes, Total	ND	0.49		mg/Kg	5	4/27/2021 9:02:16 PM	59589
Surr: 1,2-Dichloroethane-d4	89.0	70-130		%Rec	5	4/27/2021 9:02:16 PM	59589
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	5	4/27/2021 9:02:16 PM	59589
Surr: Dibromofluoromethane	105	70-130		%Rec	5	4/27/2021 9:02:16 PM	59589
Surr: Toluene-d8	99.4	70-130		%Rec	5	4/27/2021 9:02:16 PM	59589

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-10 2'

Project: Jackson B 17

Collection Date: 4/20/2021 2:49:00 PM

Lab ID: 2104974-028

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	ND	60		mg/Kg	20	4/27/2021 8:18:01 PM	59660
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/27/2021 9:31:17 PM	59589
Surr: BFB	108	70-130		%Rec	5	4/27/2021 9:31:17 PM	59589
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	230	9.5		mg/Kg	1	4/27/2021 4:04:36 AM	59603
Motor Oil Range Organics (MRO)	780	48		mg/Kg	1	4/27/2021 4:04:36 AM	59603
Surr: DNOP	93.2	70-130		%Rec	1	4/27/2021 4:04:36 AM	59603
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	4/27/2021 9:31:17 PM	59589
Benzene	ND	0.12		mg/Kg	5	4/27/2021 9:31:17 PM	59589
Toluene	ND	0.25		mg/Kg	5	4/27/2021 9:31:17 PM	59589
Ethylbenzene	ND	0.25		mg/Kg	5	4/27/2021 9:31:17 PM	59589
Xylenes, Total	ND	0.50		mg/Kg	5	4/27/2021 9:31:17 PM	59589
Surr: 1,2-Dichloroethane-d4	88.3	70-130		%Rec	5	4/27/2021 9:31:17 PM	59589
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	5	4/27/2021 9:31:17 PM	59589
Surr: Dibromofluoromethane	103	70-130		%Rec	5	4/27/2021 9:31:17 PM	59589
Surr: Toluene-d8	99.2	70-130		%Rec	5	4/27/2021 9:31:17 PM	59589

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

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

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Analytical Report

Lab Order 2104974

Date Reported: 4/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: A2-10 4'

Project: Jackson B 17

Collection Date: 4/20/2021 2:51:00 PM

Lab ID: 2104974-029

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	ND	61		mg/Kg	20	4/27/2021 8:30:26 PM	59660
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/27/2021 10:00:14 PM	59589
Surr: BFB	111	70-130		%Rec	5	4/27/2021 10:00:14 PM	59589
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	470	95		mg/Kg	10	4/28/2021 12:36:59 AM	59603
Motor Oil Range Organics (MRO)	1400	480		mg/Kg	10	4/28/2021 12:36:59 AM	59603
Surr: DNOP	0	70-130	S	%Rec	10	4/28/2021 12:36:59 AM	59603
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	4/27/2021 10:00:14 PM	59589
Benzene	ND	0.12		mg/Kg	5	4/27/2021 10:00:14 PM	59589
Toluene	ND	0.25		mg/Kg	5	4/27/2021 10:00:14 PM	59589
Ethylbenzene	ND	0.25		mg/Kg	5	4/27/2021 10:00:14 PM	59589
Xylenes, Total	ND	0.50		mg/Kg	5	4/27/2021 10:00:14 PM	59589
Surr: 1,2-Dichloroethane-d4	85.4	70-130		%Rec	5	4/27/2021 10:00:14 PM	59589
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	5	4/27/2021 10:00:14 PM	59589
Surr: Dibromofluoromethane	102	70-130		%Rec	5	4/27/2021 10:00:14 PM	59589
Surr: Toluene-d8	98.4	70-130		%Rec	5	4/27/2021 10:00:14 PM	59589

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104974

29-Apr-21

Client: EOG
Project: Jackson B 17

Sample ID: MB-59643	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59643	RunNo: 76958								
Prep Date: 4/26/2021	Analysis Date: 4/26/2021	SeqNo: 2727668 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59643	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59643	RunNo: 76958								
Prep Date: 4/26/2021	Analysis Date: 4/26/2021	SeqNo: 2727669 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Sample ID: MB-59647	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59647	RunNo: 76982								
Prep Date: 4/27/2021	Analysis Date: 4/27/2021	SeqNo: 2728804 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59647	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59647	RunNo: 76982								
Prep Date: 4/27/2021	Analysis Date: 4/27/2021	SeqNo: 2728805 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Sample ID: MB-59646	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59646	RunNo: 76981								
Prep Date: 4/27/2021	Analysis Date: 4/27/2021	SeqNo: 2728989 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59646	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59646	RunNo: 76981								
Prep Date: 4/27/2021	Analysis Date: 4/27/2021	SeqNo: 2728990 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104974

29-Apr-21

Client: EOG
Project: Jackson B 17

Sample ID: MB-59660	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 59660	RunNo: 76981								
Prep Date: 4/27/2021	Analysis Date: 4/27/2021	SeqNo: 2729022	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-59660	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 59660	RunNo: 76981								
Prep Date: 4/27/2021	Analysis Date: 4/27/2021	SeqNo: 2729023	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Qualifiers:

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

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.

WO#: 2104974

29-Apr-21

Client: EOG
Project: Jackson B 17

Sample ID: MB-59585	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59585	RunNo: 76915								
Prep Date: 4/22/2021	Analysis Date: 4/23/2021	SeqNo: 2726239 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.5	70	130			

Sample ID: LCS-59585	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59585	RunNo: 76915								
Prep Date: 4/22/2021	Analysis Date: 4/23/2021	SeqNo: 2726240 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	6.3		5.000		126	70	130			

Sample ID: MB-59616	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59616	RunNo: 76932								
Prep Date: 4/23/2021	Analysis Date: 4/26/2021	SeqNo: 2726483 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		86.8	70	130			

Sample ID: LCS-59616	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 59616	RunNo: 76932								
Prep Date: 4/23/2021	Analysis Date: 4/26/2021	SeqNo: 2726484 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.9	70	130			

Sample ID: MB-59603	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59603	RunNo: 76951								
Prep Date: 4/23/2021	Analysis Date: 4/27/2021	SeqNo: 2728306 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		85.5	70	130			

Sample ID: MB-59620	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 59620	RunNo: 76960								
Prep Date: 4/25/2021	Analysis Date: 4/27/2021	SeqNo: 2728683 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104974

29-Apr-21

Client: EOG
Project: Jackson B 17

Sample ID: MB-59620	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 59620			RunNo: 76960						
Prep Date: 4/25/2021	Analysis Date: 4/27/2021			SeqNo: 2728683		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		94.1	70	130			

Sample ID: LCS-59620	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 59620			RunNo: 76960						
Prep Date: 4/25/2021	Analysis Date: 4/27/2021			SeqNo: 2728696		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.0	70	130			

Sample ID: MB-59638	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 59638			RunNo: 76973						
Prep Date: 4/26/2021	Analysis Date: 4/27/2021			SeqNo: 2728953		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		117	70	130			

Sample ID: LCS-59638	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 59638			RunNo: 76973						
Prep Date: 4/26/2021	Analysis Date: 4/27/2021			SeqNo: 2728954		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		108	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104974

29-Apr-21

Client: EOG
Project: Jackson B 17

Sample ID: mb-59580	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 59580				RunNo: 76957					
Prep Date: 4/22/2021	Analysis Date: 4/26/2021				SeqNo: 2727499	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: lcs-59580	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 59580				RunNo: 76957					
Prep Date: 4/22/2021	Analysis Date: 4/26/2021				SeqNo: 2727501	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1100		1000		115	70	130			

Sample ID: MB-59601	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 59601				RunNo: 76957					
Prep Date: 4/23/2021	Analysis Date: 4/26/2021				SeqNo: 2727525	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	70	130			

Sample ID: lcs-59601	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 59601				RunNo: 76957					
Prep Date: 4/23/2021	Analysis Date: 4/26/2021				SeqNo: 2727526	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		112	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104974

29-Apr-21

Client: EOG
Project: Jackson B 17

Sample ID: mb-59580	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59580	RunNo: 76957								
Prep Date: 4/22/2021	Analysis Date: 4/26/2021	SeqNo: 2727548 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: LCS-59580	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59580	RunNo: 76957								
Prep Date: 4/22/2021	Analysis Date: 4/26/2021	SeqNo: 2727549 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.9	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: MB-59601	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 59601	RunNo: 76957								
Prep Date: 4/23/2021	Analysis Date: 4/26/2021	SeqNo: 2727572 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: LCS-59601	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 59601	RunNo: 76957								
Prep Date: 4/23/2021	Analysis Date: 4/26/2021	SeqNo: 2727573 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104974

29-Apr-21

Client: EOG
Project: Jackson B 17

Sample ID: Ics-59589	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 59589	RunNo: 76991								
Prep Date: 4/22/2021	Analysis Date: 4/27/2021	SeqNo: 2728726 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.5	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.2	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.5	70	130			
Surr: Toluene-d8	0.49		0.5000		97.2	70	130			

Sample ID: mb-59589	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 59589	RunNo: 76991								
Prep Date: 4/22/2021	Analysis Date: 4/27/2021	SeqNo: 2728727 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.4	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		95.0	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.49		0.5000		98.4	70	130			

Sample ID: 2104974-022ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: A2-8 Sur	Batch ID: 59589	RunNo: 76991								
Prep Date: 4/22/2021	Analysis Date: 4/27/2021	SeqNo: 2729168 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.12	0.9921	0	93.0	71.1	115			
Toluene	1.0	0.25	0.9921	0	101	79.6	132			
Ethylbenzene	1.0	0.25	0.9921	0	103	83.8	134			
Xylenes, Total	3.1	0.50	2.976	0	105	82.4	132			
Surr: 1,2-Dichloroethane-d4	2.1		2.480		83.9	70	130			
Surr: 4-Bromofluorobenzene	2.3		2.480		92.8	70	130			
Surr: Dibromofluoromethane	2.5		2.480		99.0	70	130			
Surr: Toluene-d8	2.5		2.480		102	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104974

29-Apr-21

Client: EOG
Project: Jackson B 17

Sample ID: 2104974-022amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: A2-8 Sur	Batch ID: 59589	RunNo: 76991								
Prep Date: 4/22/2021	Analysis Date: 4/27/2021	SeqNo: 2729169	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.12	0.9901	0	92.6	71.1	115	0.581	20	
Toluene	0.97	0.25	0.9901	0	98.0	79.6	132	3.36	20	
Ethylbenzene	0.98	0.25	0.9901	0	98.8	83.8	134	3.92	20	
Xylenes, Total	2.9	0.50	2.970	0	97.2	82.4	132	7.71	20	
Surr: 1,2-Dichloroethane-d4	2.1		2.475		86.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	2.3		2.475		91.7	70	130	0	0	
Surr: Dibromofluoromethane	2.4		2.475		98.7	70	130	0	0	
Surr: Toluene-d8	2.5		2.475		100	70	130	0	0	

Sample ID: lcs-59609	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 59609	RunNo: 77031								
Prep Date: 4/23/2021	Analysis Date: 4/28/2021	SeqNo: 2730444	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.9	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.8	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.5	70	130			
Surr: Toluene-d8	0.48		0.5000		96.8	70	130			

Sample ID: mb-59609	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 59609	RunNo: 77031								
Prep Date: 4/23/2021	Analysis Date: 4/28/2021	SeqNo: 2730445	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.6	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.8	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.6	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2104974

29-Apr-21

Client: EOG
Project: Jackson B 17

Sample ID: lcs-59589	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 59589			RunNo: 76991						
Prep Date: 4/22/2021	Analysis Date: 4/27/2021			SeqNo: 2728735		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID: mb-59589	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 59589			RunNo: 76991						
Prep Date: 4/22/2021	Analysis Date: 4/27/2021			SeqNo: 2728736		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	560		500.0		111	70	130			

Sample ID: lcs-59609	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 59609			RunNo: 77031						
Prep Date: 4/23/2021	Analysis Date: 4/28/2021			SeqNo: 2730474		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	520		500.0		104	70	130			

Sample ID: mb-59609	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 59609			RunNo: 77031						
Prep Date: 4/23/2021	Analysis Date: 4/28/2021			SeqNo: 2730475		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	540		500.0		109	70	130			

Qualifiers:

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

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

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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2104974

RcptNo: 1

Received By: Cheyenne Cason 4/22/2021 7:55:00 AM

Completed By: Desiree Dominguez 4/22/2021 8:15:47 AM

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? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good				

Chain-of-Custody Record

Client: EOG Resources, Inc.Mailing Address: On file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)Turn-Around Time: 5 Day
☒ Standard ☐ Rush

Project Name:

Jackson B #17

Project #:

Area 2

Project Manager:

Chase SettleSampler: Chase SettleOn Ice: ☒ Yes ☐ No# of Coolers: 0.8-0.1=0.7Cooler Temp (including CF): 42-0.1-1.1 (°C)

Container Type and #

Preservative Type

HEAL No.

2104974

4oz Glass/1

ICE

-001

-002

-003

-004

-005

-006

-007

-008

-009

-010

-011

-012

Date: 4/21/21 Time: 12:00Relinquished by: [Signature]Date: 4/21/21 Time: 1900Relinquished by: [Signature]

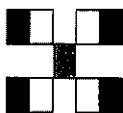
Received by:

Via: LDate: 4/21/21 Time: 1200

Received by:

Via: car coverDate: 4/22/21 Time: 0755

Remarks:

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

June 10, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Jackson B 17 Flowline 2

OrderNo.: 2105B49

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 36 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105B49

Project: Jackson B 17 Flowline 2

Lab ID: 2105B49-001

Collection Date: 5/25/2021 12:30:00 PM

Client Sample ID: A2-1 6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1100	60		mg/Kg	20	6/2/2021 7:05:14 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	31	25		mg/Kg	5	5/30/2021 12:17:11 AM	60316
Surr: BFB	108	70-130		%Rec	5	5/30/2021 12:17:11 AM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	6800	890		mg/Kg	100	6/1/2021 2:13:47 PM	60318
Motor Oil Range Organics (MRO)	4700	4500		mg/Kg	100	6/1/2021 2:13:47 PM	60318
Surr: DNOP	0	70-130	S	%Rec	100	6/1/2021 2:13:47 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.12		mg/Kg	5	5/30/2021 12:17:11 AM	60316
Toluene	ND	0.25		mg/Kg	5	5/30/2021 12:17:11 AM	60316
Ethylbenzene	ND	0.25		mg/Kg	5	5/30/2021 12:17:11 AM	60316
Xylenes, Total	ND	0.50		mg/Kg	5	5/30/2021 12:17:11 AM	60316
Surr: 1,2-Dichloroethane-d4	87.0	70-130		%Rec	5	5/30/2021 12:17:11 AM	60316
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	5	5/30/2021 12:17:11 AM	60316
Surr: Dibromofluoromethane	102	70-130		%Rec	5	5/30/2021 12:17:11 AM	60316
Surr: Toluene-d8	93.6	70-130		%Rec	5	5/30/2021 12:17:11 AM	60316

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105B49

Project: Jackson B 17 Flowline 2

Lab ID: 2105B49-002

Collection Date: 5/25/2021 12:35:00 PM

Client Sample ID: A2-1 8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2100	60		mg/Kg	20	6/2/2021 7:42:28 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	29	25		mg/Kg	5	5/30/2021 12:45:53 AM	60316
Surr: BFB	108	70-130		%Rec	5	5/30/2021 12:45:53 AM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3400	94		mg/Kg	10	6/2/2021 6:20:45 PM	60318
Motor Oil Range Organics (MRO)	2100	470		mg/Kg	10	6/2/2021 6:20:45 PM	60318
Surr: DNOP	0	70-130	S	%Rec	10	6/2/2021 6:20:45 PM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.12		mg/Kg	5	5/30/2021 12:45:53 AM	60316
Toluene	ND	0.25		mg/Kg	5	5/30/2021 12:45:53 AM	60316
Ethylbenzene	ND	0.25		mg/Kg	5	5/30/2021 12:45:53 AM	60316
Xylenes, Total	ND	0.50		mg/Kg	5	5/30/2021 12:45:53 AM	60316
Surr: 1,2-Dichloroethane-d4	86.2	70-130		%Rec	5	5/30/2021 12:45:53 AM	60316
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	5	5/30/2021 12:45:53 AM	60316
Surr: Dibromofluoromethane	100	70-130		%Rec	5	5/30/2021 12:45:53 AM	60316
Surr: Toluene-d8	93.0	70-130		%Rec	5	5/30/2021 12:45:53 AM	60316

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-003

Collection Date: 5/25/2021 12:40:00 PM

Client Sample ID: A2-1 10'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	59		mg/Kg	20	6/2/2021 8:44:31 PM	60394
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4300	480		mg/Kg	50	6/2/2021 5:28:26 PM	60319
Motor Oil Range Organics (MRO)	2700	2400		mg/Kg	50	6/2/2021 5:28:26 PM	60319
Surr: DNOP	0	70-130	S	%Rec	50	6/2/2021 5:28:26 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	26	24		mg/Kg	5	5/28/2021 3:26:05 PM	60317
Surr: BFB	112	70-130		%Rec	5	5/28/2021 3:26:05 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/28/2021 3:26:05 PM	60317
Toluene	ND	0.24	D	mg/Kg	5	5/28/2021 3:26:05 PM	60317
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/28/2021 3:26:05 PM	60317
Xylenes, Total	ND	0.49	D	mg/Kg	5	5/28/2021 3:26:05 PM	60317
Surr: 4-Bromofluorobenzene	99.6	70-130	D	%Rec	5	5/28/2021 3:26:05 PM	60317

Lab ID: 2105B49-004

Collection Date: 5/25/2021 12:45:00 PM

Client Sample ID: A2-1 14'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4300	150		mg/Kg	50	6/4/2021 10:08:34 AM	60394
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	7200	460		mg/Kg	50	6/2/2021 5:54:16 PM	60319
Motor Oil Range Organics (MRO)	4000	2300		mg/Kg	50	6/2/2021 5:54:16 PM	60319
Surr: DNOP	0	70-130	S	%Rec	50	6/2/2021 5:54:16 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	120	25		mg/Kg	5	5/28/2021 4:36:51 PM	60317
Surr: BFB	179	70-130	S	%Rec	5	5/28/2021 4:36:51 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	5/28/2021 4:36:51 PM	60317
Toluene	ND	0.25		mg/Kg	5	5/28/2021 4:36:51 PM	60317
Ethylbenzene	ND	0.25		mg/Kg	5	5/28/2021 4:36:51 PM	60317
Xylenes, Total	1.1	0.50		mg/Kg	5	5/28/2021 4:36:51 PM	60317
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	5	5/28/2021 4:36:51 PM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-005

Collection Date: 5/25/2021 12:50:00 PM

Client Sample ID: A2-1 16'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5100	150		mg/Kg	50	6/4/2021 10:20:54 AM	60394
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11000	980		mg/Kg	100	6/1/2021 3:22:48 PM	60319
Motor Oil Range Organics (MRO)	7100	4900		mg/Kg	100	6/1/2021 3:22:48 PM	60319
Surr: DNOP	0	70-130	S	%Rec	100	6/1/2021 3:22:48 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	190	25		mg/Kg	5	5/28/2021 5:47:38 PM	60317
Surr: BFB	273	70-130	S	%Rec	5	5/28/2021 5:47:38 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	5/28/2021 5:47:38 PM	60317
Toluene	ND	0.25		mg/Kg	5	5/28/2021 5:47:38 PM	60317
Ethylbenzene	0.75	0.25		mg/Kg	5	5/28/2021 5:47:38 PM	60317
Xylenes, Total	4.3	0.49		mg/Kg	5	5/28/2021 5:47:38 PM	60317
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	5	5/28/2021 5:47:38 PM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-006

Collection Date: 5/25/2021 12:55:00 PM

Client Sample ID: A2-1 18'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4400	150		mg/Kg	50	6/4/2021 10:33:16 AM	60394
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4700	99		mg/Kg	10	6/2/2021 2:42:00 PM	60319
Motor Oil Range Organics (MRO)	2600	490		mg/Kg	10	6/2/2021 2:42:00 PM	60319
Surr: DNOP	0	70-130	S	%Rec	10	6/2/2021 2:42:00 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	300	23		mg/Kg	5	5/28/2021 6:11:08 PM	60317
Surr: BFB	440	70-130	S	%Rec	5	5/28/2021 6:11:08 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	5/28/2021 6:11:08 PM	60317
Toluene	ND	0.23		mg/Kg	5	5/28/2021 6:11:08 PM	60317
Ethylbenzene	3.3	0.23		mg/Kg	5	5/28/2021 6:11:08 PM	60317
Xylenes, Total	16	0.46		mg/Kg	5	5/28/2021 6:11:08 PM	60317
Surr: 4-Bromofluorobenzene	142	70-130	S	%Rec	5	5/28/2021 6:11:08 PM	60317

Lab ID: 2105B49-007

Collection Date: 5/25/2021 1:00:00 PM

Client Sample ID: A2-1 20'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4500	150		mg/Kg	50	6/4/2021 10:45:37 AM	60394
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	6000	99		mg/Kg	10	6/2/2021 3:07:40 PM	60319
Motor Oil Range Organics (MRO)	3100	490		mg/Kg	10	6/2/2021 3:07:40 PM	60319
Surr: DNOP	0	70-130	S	%Rec	10	6/2/2021 3:07:40 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	390	25		mg/Kg	5	5/28/2021 6:34:42 PM	60317
Surr: BFB	492	70-130	S	%Rec	5	5/28/2021 6:34:42 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	5/28/2021 6:34:42 PM	60317
Toluene	ND	0.25		mg/Kg	5	5/28/2021 6:34:42 PM	60317
Ethylbenzene	5.8	0.25		mg/Kg	5	5/28/2021 6:34:42 PM	60317
Xylenes, Total	25	0.50		mg/Kg	5	5/28/2021 6:34:42 PM	60317
Surr: 4-Bromofluorobenzene	153	70-130	S	%Rec	5	5/28/2021 6:34:42 PM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105B49

Project: Jackson B 17 Flowline 2

Lab ID: 2105B49-008

Collection Date: 5/25/2021 1:15:00 PM

Client Sample ID: A2-2 6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	370	60		mg/Kg	20	6/2/2021 9:46:34 PM	60394
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	380	20		mg/Kg	2	6/2/2021 3:33:30 PM	60319
Motor Oil Range Organics (MRO)	750	99		mg/Kg	2	6/2/2021 3:33:30 PM	60319
Surr: DNOP	95.0	70-130		%Rec	2	6/2/2021 3:33:30 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	5/28/2021 6:58:09 PM	60317
Surr: BFB	105	70-130	D	%Rec	5	5/28/2021 6:58:09 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/28/2021 6:58:09 PM	60317
Toluene	ND	0.23	D	mg/Kg	5	5/28/2021 6:58:09 PM	60317
Ethylbenzene	ND	0.23	D	mg/Kg	5	5/28/2021 6:58:09 PM	60317
Xylenes, Total	ND	0.47	D	mg/Kg	5	5/28/2021 6:58:09 PM	60317
Surr: 4-Bromofluorobenzene	101	70-130	D	%Rec	5	5/28/2021 6:58:09 PM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49**Lab ID:** 2105B49-009**Collection Date:** 5/25/2021 1:20:00 PM**Client Sample ID:** A2-2 8'**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	170	61		mg/Kg	20	6/2/2021 9:58:59 PM	60394
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	520	17		mg/Kg	2	6/2/2021 3:59:14 PM	60319
Motor Oil Range Organics (MRO)	860	86		mg/Kg	2	6/2/2021 3:59:14 PM	60319
Surr: DNOP	104	70-130		%Rec	2	6/2/2021 3:59:14 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/28/2021 7:21:44 PM	60317
Surr: BFB	100	70-130	D	%Rec	5	5/28/2021 7:21:44 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/28/2021 7:21:44 PM	60317
Toluene	ND	0.24	D	mg/Kg	5	5/28/2021 7:21:44 PM	60317
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/28/2021 7:21:44 PM	60317
Xylenes, Total	ND	0.48	D	mg/Kg	5	5/28/2021 7:21:44 PM	60317
Surr: 4-Bromofluorobenzene	99.4	70-130	D	%Rec	5	5/28/2021 7:21:44 PM	60317

Lab ID: 2105B49-010**Collection Date:** 5/25/2021 1:25:00 PM**Client Sample ID:** A2-2 10'**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	170	60		mg/Kg	20	6/2/2021 10:11:23 PM	60394
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	450	9.6		mg/Kg	1	6/2/2021 1:37:16 PM	60319
Motor Oil Range Organics (MRO)	800	48		mg/Kg	1	6/2/2021 1:37:16 PM	60319
Surr: DNOP	93.2	70-130		%Rec	1	6/2/2021 1:37:16 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/28/2021 7:45:17 PM	60317
Surr: BFB	102	70-130	D	%Rec	5	5/28/2021 7:45:17 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/28/2021 7:45:17 PM	60317
Toluene	ND	0.24	D	mg/Kg	5	5/28/2021 7:45:17 PM	60317
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/28/2021 7:45:17 PM	60317
Xylenes, Total	ND	0.48	D	mg/Kg	5	5/28/2021 7:45:17 PM	60317
Surr: 4-Bromofluorobenzene	101	70-130	D	%Rec	5	5/28/2021 7:45:17 PM	60317

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

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

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Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-011

Collection Date: 5/25/2021 1:30:00 PM

Client Sample ID: A2-3 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/2/2021 11:13:23 PM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/1/2021 4:21:33 PM	60319
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/1/2021 4:21:33 PM	60319
Surr: DNOP	112	70-130		%Rec	1	6/1/2021 4:21:33 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/28/2021 8:08:51 PM	60317
Surr: BFB	102	70-130		%Rec	1	5/28/2021 8:08:51 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/28/2021 8:08:51 PM	60317
Toluene	ND	0.047		mg/Kg	1	5/28/2021 8:08:51 PM	60317
Ethylbenzene	ND	0.047		mg/Kg	1	5/28/2021 8:08:51 PM	60317
Xylenes, Total	ND	0.093		mg/Kg	1	5/28/2021 8:08:51 PM	60317
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/28/2021 8:08:51 PM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105B49

Project: Jackson B 17 Flowline 2

Lab ID: 2105B49-012

Collection Date: 5/25/2021 1:35:00 PM

Client Sample ID: A2-4 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	200	60		mg/Kg	20	6/2/2021 11:50:36 PM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	290	9.3		mg/Kg	1	6/3/2021 5:02:12 PM	60319
Motor Oil Range Organics (MRO)	840	46		mg/Kg	1	6/3/2021 5:02:12 PM	60319
Surr: DNOP	117	70-130		%Rec	1	6/3/2021 5:02:12 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/28/2021 8:32:35 PM	60317
Surr: BFB	102	70-130	D	%Rec	5	5/28/2021 8:32:35 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/28/2021 8:32:35 PM	60317
Toluene	ND	0.24	D	mg/Kg	5	5/28/2021 8:32:35 PM	60317
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/28/2021 8:32:35 PM	60317
Xylenes, Total	ND	0.48	D	mg/Kg	5	5/28/2021 8:32:35 PM	60317
Surr: 4-Bromofluorobenzene	102	70-130	D	%Rec	5	5/28/2021 8:32:35 PM	60317

Lab ID: 2105B49-013

Collection Date: 5/25/2021 1:40:00 PM

Client Sample ID: A2-5 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/3/2021 12:27:48 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3300	95		mg/Kg	10	6/2/2021 2:03:26 PM	60319
Motor Oil Range Organics (MRO)	3800	480		mg/Kg	10	6/2/2021 2:03:26 PM	60319
Surr: DNOP	0	70-130	S	%Rec	10	6/2/2021 2:03:26 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/28/2021 10:30:17 PM	60317
Surr: BFB	99.2	70-130	D	%Rec	5	5/28/2021 10:30:17 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/28/2021 10:30:17 PM	60317
Toluene	ND	0.24	D	mg/Kg	5	5/28/2021 10:30:17 PM	60317
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/28/2021 10:30:17 PM	60317
Xylenes, Total	ND	0.48	D	mg/Kg	5	5/28/2021 10:30:17 PM	60317
Surr: 4-Bromofluorobenzene	98.4	70-130	D	%Rec	5	5/28/2021 10:30:17 PM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-014

Collection Date: 5/25/2021 1:45:00 PM

Client Sample ID: A2-5 6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	140	59		mg/Kg	20	6/3/2021 12:40:12 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	2700	93		mg/Kg	10	6/1/2021 4:50:47 PM	60319
Motor Oil Range Organics (MRO)	2200	460		mg/Kg	10	6/1/2021 4:50:47 PM	60319
Surr: DNOP	0	70-130	S	%Rec	10	6/1/2021 4:50:47 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/28/2021 10:53:48 PM	60317
Surr: BFB	99.5	70-130	D	%Rec	5	5/28/2021 10:53:48 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/28/2021 10:53:48 PM	60317
Toluene	ND	0.24	D	mg/Kg	5	5/28/2021 10:53:48 PM	60317
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/28/2021 10:53:48 PM	60317
Xylenes, Total	ND	0.48	D	mg/Kg	5	5/28/2021 10:53:48 PM	60317
Surr: 4-Bromofluorobenzene	100	70-130	D	%Rec	5	5/28/2021 10:53:48 PM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105B49

Project: Jackson B 17 Flowline 2

Lab ID: 2105B49-015

Collection Date: 5/25/2021 1:50:00 PM

Client Sample ID: A2-5 8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	300	60		mg/Kg	20	6/3/2021 1:17:25 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/1/2021 5:00:31 PM	60319
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/1/2021 5:00:31 PM	60319
Surr: DNOP	110	70-130		%Rec	1	6/1/2021 5:00:31 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/28/2021 11:17:19 PM	60317
Surr: BFB	103	70-130		%Rec	1	5/28/2021 11:17:19 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/28/2021 11:17:19 PM	60317
Toluene	ND	0.049		mg/Kg	1	5/28/2021 11:17:19 PM	60317
Ethylbenzene	ND	0.049		mg/Kg	1	5/28/2021 11:17:19 PM	60317
Xylenes, Total	ND	0.098		mg/Kg	1	5/28/2021 11:17:19 PM	60317
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	5/28/2021 11:17:19 PM	60317

Lab ID: 2105B49-016

Collection Date: 5/25/2021 2:00:00 PM

Client Sample ID: A2-7 10'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	6/3/2021 1:29:49 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/1/2021 5:10:14 PM	60319
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/1/2021 5:10:14 PM	60319
Surr: DNOP	95.5	70-130		%Rec	1	6/1/2021 5:10:14 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/28/2021 11:40:53 PM	60317
Surr: BFB	101	70-130		%Rec	1	5/28/2021 11:40:53 PM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/28/2021 11:40:53 PM	60317
Toluene	ND	0.049		mg/Kg	1	5/28/2021 11:40:53 PM	60317
Ethylbenzene	ND	0.049		mg/Kg	1	5/28/2021 11:40:53 PM	60317
Xylenes, Total	ND	0.098		mg/Kg	1	5/28/2021 11:40:53 PM	60317
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/28/2021 11:40:53 PM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-017

Collection Date: 5/25/2021 2:15:00 PM

Client Sample ID: A2-6 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	65	60		mg/Kg	20	6/3/2021 1:42:14 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	370	9.0		mg/Kg	1	6/3/2021 3:25:29 PM	60319
Motor Oil Range Organics (MRO)	640	45		mg/Kg	1	6/3/2021 3:25:29 PM	60319
Surr: DNOP	109	70-130		%Rec	1	6/3/2021 3:25:29 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	5/29/2021 12:04:26 AM	60317
Surr: BFB	100	70-130	D	%Rec	5	5/29/2021 12:04:26 AM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/29/2021 12:04:26 AM	60317
Toluene	ND	0.23	D	mg/Kg	5	5/29/2021 12:04:26 AM	60317
Ethylbenzene	ND	0.23	D	mg/Kg	5	5/29/2021 12:04:26 AM	60317
Xylenes, Total	ND	0.47	D	mg/Kg	5	5/29/2021 12:04:26 AM	60317
Surr: 4-Bromofluorobenzene	101	70-130	D	%Rec	5	5/29/2021 12:04:26 AM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-018

Collection Date: 5/25/2021 2:20:00 PM

Client Sample ID: A2-6 6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	200	60		mg/Kg	20	6/3/2021 1:54:39 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1000	97		mg/Kg	10	6/1/2021 5:29:38 PM	60319
Motor Oil Range Organics (MRO)	1900	480		mg/Kg	10	6/1/2021 5:29:38 PM	60319
Surr: DNOP	0	70-130	S	%Rec	10	6/1/2021 5:29:38 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/29/2021 12:28:13 AM	60317
Surr: BFB	99.0	70-130	D	%Rec	5	5/29/2021 12:28:13 AM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/29/2021 12:28:13 AM	60317
Toluene	ND	0.24	D	mg/Kg	5	5/29/2021 12:28:13 AM	60317
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/29/2021 12:28:13 AM	60317
Xylenes, Total	ND	0.48	D	mg/Kg	5	5/29/2021 12:28:13 AM	60317
Surr: 4-Bromofluorobenzene	99.3	70-130	D	%Rec	5	5/29/2021 12:28:13 AM	60317

Lab ID: 2105B49-019

Collection Date: 5/25/2021 2:25:00 PM

Client Sample ID: A2-6 8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	700	60		mg/Kg	20	6/3/2021 2:07:03 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3100	95		mg/Kg	10	6/1/2021 5:39:22 PM	60319
Motor Oil Range Organics (MRO)	2500	480		mg/Kg	10	6/1/2021 5:39:22 PM	60319
Surr: DNOP	0	70-130	S	%Rec	10	6/1/2021 5:39:22 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	5/29/2021 12:52:07 AM	60317
Surr: BFB	99.0	70-130	D	%Rec	5	5/29/2021 12:52:07 AM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.11	D	mg/Kg	5	5/29/2021 12:52:07 AM	60317
Toluene	ND	0.23	D	mg/Kg	5	5/29/2021 12:52:07 AM	60317
Ethylbenzene	ND	0.23	D	mg/Kg	5	5/29/2021 12:52:07 AM	60317
Xylenes, Total	ND	0.46	D	mg/Kg	5	5/29/2021 12:52:07 AM	60317
Surr: 4-Bromofluorobenzene	99.2	70-130	D	%Rec	5	5/29/2021 12:52:07 AM	60317

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

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

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Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-020

Collection Date: 5/25/2021 2:30:00 PM

Client Sample ID: A2-6 10'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2200	60		mg/Kg	20	6/3/2021 2:19:28 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	7300	200		mg/Kg	20	6/3/2021 7:29:13 PM	60319
Motor Oil Range Organics (MRO)	4200	990		mg/Kg	20	6/3/2021 7:29:13 PM	60319
Surr: DNOP	0	70-130	S	%Rec	20	6/3/2021 7:29:13 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/29/2021 1:15:44 AM	60317
Surr: BFB	97.2	70-130	D	%Rec	5	5/29/2021 1:15:44 AM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/29/2021 1:15:44 AM	60317
Toluene	ND	0.24	D	mg/Kg	5	5/29/2021 1:15:44 AM	60317
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/29/2021 1:15:44 AM	60317
Xylenes, Total	ND	0.49	D	mg/Kg	5	5/29/2021 1:15:44 AM	60317
Surr: 4-Bromofluorobenzene	97.6	70-130	D	%Rec	5	5/29/2021 1:15:44 AM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-021

Collection Date: 5/25/2021 2:35:00 PM

Client Sample ID: A2-6 12'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2000	60		mg/Kg	20	6/3/2021 2:31:52 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/1/2021 5:59:10 PM	60319
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/1/2021 5:59:10 PM	60319
Surr: DNOP	120	70-130		%Rec	1	6/1/2021 5:59:10 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/29/2021 1:39:18 AM	60317
Surr: BFB	99.2	70-130		%Rec	1	5/29/2021 1:39:18 AM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/29/2021 1:39:18 AM	60317
Toluene	ND	0.048		mg/Kg	1	5/29/2021 1:39:18 AM	60317
Ethylbenzene	ND	0.048		mg/Kg	1	5/29/2021 1:39:18 AM	60317
Xylenes, Total	ND	0.096		mg/Kg	1	5/29/2021 1:39:18 AM	60317
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/29/2021 1:39:18 AM	60317

Lab ID: 2105B49-022

Collection Date: 5/25/2021 2:40:00 PM

Client Sample ID: A2-8 4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	6/3/2021 2:44:16 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	100	46		mg/Kg	5	6/2/2021 4:37:11 PM	60319
Motor Oil Range Organics (MRO)	580	230		mg/Kg	5	6/2/2021 4:37:11 PM	60319
Surr: DNOP	101	70-130		%Rec	5	6/2/2021 4:37:11 PM	60319
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23	D	mg/Kg	5	5/29/2021 2:02:58 AM	60317
Surr: BFB	98.6	70-130	D	%Rec	5	5/29/2021 2:02:58 AM	60317
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12	D	mg/Kg	5	5/29/2021 2:02:58 AM	60317
Toluene	ND	0.23	D	mg/Kg	5	5/29/2021 2:02:58 AM	60317
Ethylbenzene	ND	0.23	D	mg/Kg	5	5/29/2021 2:02:58 AM	60317
Xylenes, Total	ND	0.46	D	mg/Kg	5	5/29/2021 2:02:58 AM	60317
Surr: 4-Bromofluorobenzene	98.6	70-130	D	%Rec	5	5/29/2021 2:02:58 AM	60317

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-023

Collection Date: 5/25/2021 3:00:00 PM

Client Sample ID: TP1-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	6/3/2021 2:56:41 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	6/1/2021 10:09:09 PM	60330
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/1/2021 10:09:09 PM	60330
Surr: DNOP	137	70-130	S	%Rec	1	6/1/2021 10:09:09 PM	60330
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/1/2021 9:46:21 PM	60329
Surr: BFB	99.1	70-130		%Rec	1	6/1/2021 9:46:21 PM	60329
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/1/2021 9:46:21 PM	60329
Toluene	ND	0.047		mg/Kg	1	6/1/2021 9:46:21 PM	60329
Ethylbenzene	ND	0.047		mg/Kg	1	6/1/2021 9:46:21 PM	60329
Xylenes, Total	ND	0.094		mg/Kg	1	6/1/2021 9:46:21 PM	60329
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	6/1/2021 9:46:21 PM	60329

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-024

Collection Date: 5/25/2021 3:05:00 PM

Client Sample ID: TP1-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	6/3/2021 3:09:06 AM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/1/2021 10:19:21 PM	60330
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/1/2021 10:19:21 PM	60330
Surr: DNOP	133	70-130	S	%Rec	1	6/1/2021 10:19:21 PM	60330
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/1/2021 10:57:24 PM	60329
Surr: BFB	101	70-130		%Rec	1	6/1/2021 10:57:24 PM	60329
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/1/2021 10:57:24 PM	60329
Toluene	ND	0.048		mg/Kg	1	6/1/2021 10:57:24 PM	60329
Ethylbenzene	ND	0.048		mg/Kg	1	6/1/2021 10:57:24 PM	60329
Xylenes, Total	ND	0.095		mg/Kg	1	6/1/2021 10:57:24 PM	60329
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	6/1/2021 10:57:24 PM	60329

Lab ID: 2105B49-025

Collection Date: 5/25/2021 3:10:00 PM

Client Sample ID: TP2-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/3/2021 3:08:19 PM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/1/2021 10:29:31 PM	60330
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/1/2021 10:29:31 PM	60330
Surr: DNOP	130	70-130		%Rec	1	6/1/2021 10:29:31 PM	60330
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/1/2021 11:20:58 PM	60329
Surr: BFB	100	70-130		%Rec	1	6/1/2021 11:20:58 PM	60329
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/1/2021 11:20:58 PM	60329
Toluene	ND	0.049		mg/Kg	1	6/1/2021 11:20:58 PM	60329
Ethylbenzene	ND	0.049		mg/Kg	1	6/1/2021 11:20:58 PM	60329
Xylenes, Total	ND	0.098		mg/Kg	1	6/1/2021 11:20:58 PM	60329
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/1/2021 11:20:58 PM	60329

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

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

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Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-026

Collection Date: 5/25/2021 3:15:00 PM

Client Sample ID: TP2-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/3/2021 3:20:43 PM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/1/2021 10:39:38 PM	60330
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/1/2021 10:39:38 PM	60330
Surr: DNOP	0	70-130	S	%Rec	1	6/1/2021 10:39:38 PM	60330
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/1/2021 11:44:39 PM	60329
Surr: BFB	98.7	70-130		%Rec	1	6/1/2021 11:44:39 PM	60329
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/1/2021 11:44:39 PM	60329
Toluene	ND	0.049		mg/Kg	1	6/1/2021 11:44:39 PM	60329
Ethylbenzene	ND	0.049		mg/Kg	1	6/1/2021 11:44:39 PM	60329
Xylenes, Total	ND	0.098		mg/Kg	1	6/1/2021 11:44:39 PM	60329
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	6/1/2021 11:44:39 PM	60329

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-027

Collection Date: 5/25/2021 3:30:00 PM

Client Sample ID: A2-10 6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	6/3/2021 3:33:08 PM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1600	480		mg/Kg	50	6/1/2021 3:07:52 PM	60348
Motor Oil Range Organics (MRO)	2700	2400		mg/Kg	50	6/1/2021 3:07:52 PM	60348
Surr: DNOP	0	70-130	S	%Rec	50	6/1/2021 3:07:52 PM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/2/2021 12:08:24 AM	60345
Surr: BFB	99.8	70-130		%Rec	1	6/2/2021 12:08:24 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/2/2021 12:08:24 AM	60345
Toluene	ND	0.049		mg/Kg	1	6/2/2021 12:08:24 AM	60345
Ethylbenzene	ND	0.049		mg/Kg	1	6/2/2021 12:08:24 AM	60345
Xylenes, Total	ND	0.098		mg/Kg	1	6/2/2021 12:08:24 AM	60345
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	6/2/2021 12:08:24 AM	60345

Lab ID: 2105B49-028

Collection Date: 5/25/2021 3:35:00 PM

Client Sample ID: A2-10 8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	77	60		mg/Kg	20	6/3/2021 4:10:21 PM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	140	46		mg/Kg	5	6/4/2021 12:15:47 PM	60348
Motor Oil Range Organics (MRO)	400	230		mg/Kg	5	6/4/2021 12:15:47 PM	60348
Surr: DNOP	88.6	70-130		%Rec	5	6/4/2021 12:15:47 PM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	6/2/2021 12:32:09 AM	60345
Surr: BFB	100	70-130		%Rec	5	6/2/2021 12:32:09 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	6/2/2021 12:32:09 AM	60345
Toluene	ND	0.24		mg/Kg	5	6/2/2021 12:32:09 AM	60345
Ethylbenzene	ND	0.24		mg/Kg	5	6/2/2021 12:32:09 AM	60345
Xylenes, Total	ND	0.49		mg/Kg	5	6/2/2021 12:32:09 AM	60345
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	6/2/2021 12:32:09 AM	60345

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-029

Collection Date: 5/25/2021 3:40:00 PM

Client Sample ID: A2-9 6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/3/2021 4:22:45 PM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	520	48		mg/Kg	5	6/4/2021 12:28:28 PM	60348
Motor Oil Range Organics (MRO)	1300	240		mg/Kg	5	6/4/2021 12:28:28 PM	60348
Surr: DNOP	81.7	70-130		%Rec	5	6/4/2021 12:28:28 PM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/2/2021 12:55:41 AM	60345
Surr: BFB	98.3	70-130		%Rec	5	6/2/2021 12:55:41 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	6/2/2021 12:55:41 AM	60345
Toluene	ND	0.25		mg/Kg	5	6/2/2021 12:55:41 AM	60345
Ethylbenzene	ND	0.25		mg/Kg	5	6/2/2021 12:55:41 AM	60345
Xylenes, Total	ND	0.50		mg/Kg	5	6/2/2021 12:55:41 AM	60345
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	5	6/2/2021 12:55:41 AM	60345

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105B49

Project: Jackson B 17 Flowline 2

Lab ID: 2105B49-030

Collection Date: 5/25/2021 3:45:00 PM

Client Sample ID: A2-9 8'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/3/2021 4:35:10 PM	60407
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/1/2021 10:31:26 AM	60348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/1/2021 10:31:26 AM	60348
Surr: DNOP	98.5	70-130		%Rec	1	6/1/2021 10:31:26 AM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/2/2021 1:19:21 AM	60345
Surr: BFB	102	70-130		%Rec	1	6/2/2021 1:19:21 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/2/2021 1:19:21 AM	60345
Toluene	ND	0.048		mg/Kg	1	6/2/2021 1:19:21 AM	60345
Ethylbenzene	ND	0.048		mg/Kg	1	6/2/2021 1:19:21 AM	60345
Xylenes, Total	ND	0.097		mg/Kg	1	6/2/2021 1:19:21 AM	60345
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	6/2/2021 1:19:21 AM	60345

Lab ID: 2105B49-031

Collection Date: 5/25/2021 4:00:00 PM

Client Sample ID: HA1-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	6/3/2021 9:58:05 AM	60416
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/1/2021 10:44:22 AM	60348
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/1/2021 10:44:22 AM	60348
Surr: DNOP	94.3	70-130		%Rec	1	6/1/2021 10:44:22 AM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/2/2021 1:42:55 AM	60345
Surr: BFB	99.8	70-130		%Rec	1	6/2/2021 1:42:55 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/2/2021 1:42:55 AM	60345
Toluene	ND	0.049		mg/Kg	1	6/2/2021 1:42:55 AM	60345
Ethylbenzene	ND	0.049		mg/Kg	1	6/2/2021 1:42:55 AM	60345
Xylenes, Total	ND	0.099		mg/Kg	1	6/2/2021 1:42:55 AM	60345
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	6/2/2021 1:42:55 AM	60345

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-032

Collection Date: 5/25/2021 4:05:00 PM

Client Sample ID: HA1-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/3/2021 10:35:19 AM	60416
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/1/2021 10:57:25 AM	60348
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/1/2021 10:57:25 AM	60348
Surr: DNOP	92.8	70-130		%Rec	1	6/1/2021 10:57:25 AM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/2/2021 2:06:27 AM	60345
Surr: BFB	99.7	70-130		%Rec	1	6/2/2021 2:06:27 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/2/2021 2:06:27 AM	60345
Toluene	ND	0.049		mg/Kg	1	6/2/2021 2:06:27 AM	60345
Ethylbenzene	ND	0.049		mg/Kg	1	6/2/2021 2:06:27 AM	60345
Xylenes, Total	ND	0.097		mg/Kg	1	6/2/2021 2:06:27 AM	60345
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	6/2/2021 2:06:27 AM	60345

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49

Lab ID: 2105B49-033

Collection Date: 5/25/2021 4:15:00 PM

Client Sample ID: HA2-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/3/2021 11:37:21 AM	60416
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/1/2021 11:10:25 AM	60348
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/1/2021 11:10:25 AM	60348
Surr: DNOP	94.3	70-130		%Rec	1	6/1/2021 11:10:25 AM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/2/2021 2:30:05 AM	60345
Surr: BFB	101	70-130		%Rec	1	6/2/2021 2:30:05 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/2/2021 2:30:05 AM	60345
Toluene	ND	0.050		mg/Kg	1	6/2/2021 2:30:05 AM	60345
Ethylbenzene	ND	0.050		mg/Kg	1	6/2/2021 2:30:05 AM	60345
Xylenes, Total	ND	0.099		mg/Kg	1	6/2/2021 2:30:05 AM	60345
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/2/2021 2:30:05 AM	60345

Lab ID: 2105B49-034

Collection Date: 5/25/2021 4:20:00 PM

Client Sample ID: HA2-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/3/2021 11:49:46 AM	60416
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/1/2021 11:23:39 AM	60348
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/1/2021 11:23:39 AM	60348
Surr: DNOP	94.8	70-130		%Rec	1	6/1/2021 11:23:39 AM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/2/2021 3:17:14 AM	60345
Surr: BFB	102	70-130		%Rec	1	6/2/2021 3:17:14 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/2/2021 3:17:14 AM	60345
Toluene	ND	0.050		mg/Kg	1	6/2/2021 3:17:14 AM	60345
Ethylbenzene	ND	0.050		mg/Kg	1	6/2/2021 3:17:14 AM	60345
Xylenes, Total	ND	0.10		mg/Kg	1	6/2/2021 3:17:14 AM	60345
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/2/2021 3:17:14 AM	60345

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Jackson B 17 Flowline 2

Lab Order: 2105B49**Lab ID:** 2105B49-035**Collection Date:** 5/25/2021 4:30:00 PM**Client Sample ID:** HA3-S**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	6/3/2021 12:02:10 PM	60416
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/1/2021 11:36:33 AM	60348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/1/2021 11:36:33 AM	60348
Surr: DNOP	101	70-130		%Rec	1	6/1/2021 11:36:33 AM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/2/2021 3:40:49 AM	60345
Surr: BFB	100	70-130		%Rec	1	6/2/2021 3:40:49 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/2/2021 3:40:49 AM	60345
Toluene	ND	0.049		mg/Kg	1	6/2/2021 3:40:49 AM	60345
Ethylbenzene	ND	0.049		mg/Kg	1	6/2/2021 3:40:49 AM	60345
Xylenes, Total	ND	0.098		mg/Kg	1	6/2/2021 3:40:49 AM	60345
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	6/2/2021 3:40:49 AM	60345

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

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

Analytical Report

Lab Order: 2105B49

Date Reported: 6/10/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Lab Order: 2105B49

Project: Jackson B 17 Flowline 2

Lab ID: 2105B49-036

Collection Date: 5/25/2021 4:35:00 PM

Client Sample ID: HA3-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	6/3/2021 12:14:35 PM	60416
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/1/2021 11:49:43 AM	60348
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/1/2021 11:49:43 AM	60348
Surr: DNOP	94.0	70-130		%Rec	1	6/1/2021 11:49:43 AM	60348
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/2/2021 4:04:30 AM	60345
Surr: BFB	102	70-130		%Rec	1	6/2/2021 4:04:30 AM	60345
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/2/2021 4:04:30 AM	60345
Toluene	ND	0.049		mg/Kg	1	6/2/2021 4:04:30 AM	60345
Ethylbenzene	ND	0.049		mg/Kg	1	6/2/2021 4:04:30 AM	60345
Xylenes, Total	ND	0.098		mg/Kg	1	6/2/2021 4:04:30 AM	60345
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/2/2021 4:04:30 AM	60345

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105B49

10-Jun-21

Client: GHD**Project:** Jackson B 17 Flowline 2

Sample ID: MB-60394	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60394	RunNo: 78792								
Prep Date: 6/2/2021	Analysis Date: 6/2/2021	SeqNo: 2764200 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60394	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60394	RunNo: 78792								
Prep Date: 6/2/2021	Analysis Date: 6/2/2021	SeqNo: 2764201 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Sample ID: MB-60407	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60407	RunNo: 78792								
Prep Date: 6/2/2021	Analysis Date: 6/2/2021	SeqNo: 2764232 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60407	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60407	RunNo: 78792								
Prep Date: 6/2/2021	Analysis Date: 6/2/2021	SeqNo: 2764233 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Sample ID: MB-60416	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60416	RunNo: 78817								
Prep Date: 6/3/2021	Analysis Date: 6/3/2021	SeqNo: 2765651 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-60416	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60416	RunNo: 78817								
Prep Date: 6/3/2021	Analysis Date: 6/3/2021	SeqNo: 2765652 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105B49

10-Jun-21

Client: GHD**Project:** Jackson B 17 Flowline 2

Sample ID: MB-60348	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60348	RunNo: 78773								
Prep Date: 5/29/2021	Analysis Date: 6/1/2021	SeqNo: 2762223			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Sample ID: LCS-60348	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60348	RunNo: 78773								
Prep Date: 5/29/2021	Analysis Date: 6/1/2021	SeqNo: 2762236			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.3	68.9	141			
Surr: DNOP	4.4		5.000		88.0	70	130			

Sample ID: LCS-60318	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60318	RunNo: 78780								
Prep Date: 5/28/2021	Analysis Date: 6/1/2021	SeqNo: 2762508			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	68.9	141			
Surr: DNOP	5.2		5.000		105	70	130			

Sample ID: LCS-60319	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60319	RunNo: 78780								
Prep Date: 5/28/2021	Analysis Date: 6/1/2021	SeqNo: 2762509			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	68.9	141			
Surr: DNOP	5.4		5.000		109	70	130			

Sample ID: MB-60318	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60318	RunNo: 78780								
Prep Date: 5/28/2021	Analysis Date: 6/1/2021	SeqNo: 2762510			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		113	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105B49

10-Jun-21

Client: GHD**Project:** Jackson B 17 Flowline 2

Sample ID: MB-60319	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 60319	RunNo: 78780								
Prep Date: 5/28/2021	Analysis Date: 6/1/2021	SeqNo: 2762511	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			

Sample ID: LCS-60330	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 60330	RunNo: 78780								
Prep Date: 5/28/2021	Analysis Date: 6/1/2021	SeqNo: 2762911	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	115	68.9	141			
Surr: DNOP	5.9		5.000		118	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105B49

10-Jun-21

Client: GHD**Project:** Jackson B 17 Flowline 2

Sample ID: mb-60317	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 60317		RunNo: 77742							
Prep Date: 5/27/2021	Analysis Date: 5/28/2021		SeqNo: 2761104		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

Sample ID: lcs-60317	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 60317		RunNo: 77742							
Prep Date: 5/27/2021	Analysis Date: 5/28/2021		SeqNo: 2761105		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Sample ID: 2105b49-003ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: A2-1 10'	Batch ID: 60317		RunNo: 77742							
Prep Date: 5/27/2021	Analysis Date: 5/28/2021		SeqNo: 2761107		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	53	24	23.54	25.83	117	61.3	114			S
Surr: BFB	5500		4708		117	70	130			

Sample ID: 2105b49-003amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: A2-1 10'	Batch ID: 60317		RunNo: 77742							
Prep Date: 5/27/2021	Analysis Date: 5/28/2021		SeqNo: 2761108		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	55	25	24.68	25.83	117	61.3	114	2.49	20	S
Surr: BFB	5800		4936		118	70	130	0	0	

Sample ID: MB-60329	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 60329		RunNo: 78783							
Prep Date: 5/28/2021	Analysis Date: 6/1/2021		SeqNo: 2762565		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Sample ID: lcs-60329	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 60329		RunNo: 78783							
Prep Date: 5/28/2021	Analysis Date: 6/1/2021		SeqNo: 2762566		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105B49

10-Jun-21

Client: GHD**Project:** Jackson B 17 Flowline 2

Sample ID: lcs-60329	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 60329				RunNo: 78783					
Prep Date: 5/28/2021	Analysis Date: 6/1/2021				SeqNo: 2762566	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.5	78.6	131			
Surr: BFB	1100		1000		115	70	130			

Sample ID: mb-60345	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 60345				RunNo: 78783					
Prep Date: 5/29/2021	Analysis Date: 6/1/2021				SeqNo: 2762589	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	70	130			

Sample ID: lcs-60345	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 60345				RunNo: 78783					
Prep Date: 5/29/2021	Analysis Date: 6/1/2021				SeqNo: 2762590	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.3	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105B49

10-Jun-21

Client: GHD**Project:** Jackson B 17 Flowline 2

Sample ID: mb-60317	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60317	RunNo: 77742								
Prep Date: 5/27/2021	Analysis Date: 5/28/2021	SeqNo: 2761144 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: LCS-60317	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60317	RunNo: 77742								
Prep Date: 5/27/2021	Analysis Date: 5/28/2021	SeqNo: 2761145 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.9	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: 2105b49-004ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: A2-1 14'	Batch ID: 60317	RunNo: 77742								
Prep Date: 5/27/2021	Analysis Date: 5/28/2021	SeqNo: 2761148 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.12	0.9461	0	98.4	76.3	120			
Toluene	0.99	0.24	0.9461	0	105	78.5	120			
Ethylbenzene	1.1	0.24	0.9461	0.1494	99.7	78.1	124			
Xylenes, Total	3.8	0.47	2.838	1.080	97.0	79.3	125			
Surr: 4-Bromofluorobenzene	5.0		4.730		106	70	130			

Sample ID: 2105b49-004amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: A2-1 14'	Batch ID: 60317	RunNo: 77742								
Prep Date: 5/27/2021	Analysis Date: 5/28/2021	SeqNo: 2761149 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.12	0.9634	0	93.7	76.3	120	3.08	20	
Toluene	0.95	0.24	0.9634	0	98.8	78.5	120	4.03	20	
Ethylbenzene	1.1	0.24	0.9634	0.1494	94.0	78.1	124	3.52	20	
Xylenes, Total	3.7	0.48	2.890	1.080	91.1	79.3	125	3.17	20	
Surr: 4-Bromofluorobenzene	5.1		4.817		105	70	130	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105B49

10-Jun-21

Client: GHD**Project:** Jackson B 17 Flowline 2

Sample ID: MB-60329	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60329	RunNo: 78783								
Prep Date: 5/28/2021	Analysis Date: 6/1/2021	SeqNo: 2762613 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: LCS-60329	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60329	RunNo: 78783								
Prep Date: 5/28/2021	Analysis Date: 6/1/2021	SeqNo: 2762614 Units: mg/Kg								
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	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: mb-60345	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 60345	RunNo: 78783								
Prep Date: 5/29/2021	Analysis Date: 6/1/2021	SeqNo: 2762632 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

Sample ID: LCS-60345	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 60345	RunNo: 78783								
Prep Date: 5/29/2021	Analysis Date: 6/1/2021	SeqNo: 2762633 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	80	120			
Toluene	0.98	0.050	1.000	0	98.0	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Qualifiers:

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

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

Page 32 of 34

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105B49

10-Jun-21

Client: GHD**Project:** Jackson B 17 Flowline 2

Sample ID: lcs-60316	SampType: LCS	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	SeqNo: 2761813	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	70	130			
Toluene	0.97	0.050	1.000	0	96.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		80.7	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.3	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.0	70	130			
Surr: Toluene-d8	0.47		0.5000		93.0	70	130			

Sample ID: mb-60316	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 60316	RunNo: 78775								
Prep Date: 5/27/2021	Analysis Date: 5/29/2021	SeqNo: 2761815	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2105B49

10-Jun-21

Client: GHD**Project:** Jackson B 17 Flowline 2

Sample ID: lcs-60316	SampType: LCS				TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID: LCSS	Batch ID: 60316				RunNo: 78775					
Prep Date: 5/27/2021	Analysis Date: 5/29/2021				SeqNo: 2761981	Units: mg/Kg				
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-60316	SampType: MBLK				TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID: PBS	Batch ID: 60316				RunNo: 78775					
Prep Date: 5/27/2021	Analysis Date: 5/29/2021				SeqNo: 2761984	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		99.6	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: **GHD**Work Order Number: **2105B49**RcptNo: **1**Received By: **Juan Rojas**

5/27/2021 7:40:00 AM

*Juan Rojas*Completed By: **Cheyenne Cason**

5/27/2021 8:49:01 AM

Cheyenne Cason

Reviewed By:

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *SPA 5.27.21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

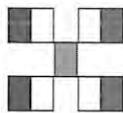
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good				
2	0.7	Good				

2.73



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Alt Bubbles (Y or N)	
Alt. # 300	
8270 (Semi-VOA)	
8260B (VOA)	
8081 Pesticides / 8082 PCB's	
Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
RCRA 8 Metals	
PAH's (8310 or 8270 SIMS)	
EDB (Method 504.1)	
TPH (Method 418.1)	
TPH 8015B (GRO / DRO / MRO)	
BTEX + MTBE + TPH (Gas only)	
BTEX + MTBE + TMB's (8021)	

Chain-of-Custody Record				Turn-Around Time:	
Client: <u>GHD</u>		☒ Standard ☐ Rush <u>5 day</u>			
Mailing Address:		Project Name:			
<u>32429 Main St Suite 108 Artesia NM 88210</u>		<u>Jackson B #17 Finalize #2</u>			
<u>Phone #: (505) 377-4218</u>		<u>11228321</u>			
<u>email or Fax#: <u>Bucky.Haskell@GHD.com</u></u>		Project Manager: <u>Bucky Haskell</u>			
<u>QA/QC Package: <u>Chase-Settle@resources.com</u></u>		<u>Tom Larson</u>			
☐ Standard ☐ Level 4 (Full Validation)		Sampler: <u>Zach Canine</u>			
Accreditation		On Ice: ☒ Yes ☐ No			
☐ NELAP ☐ Other _____		Sample Temperature: <u>0.6-0.7 = 0.4</u>			
☐ EDD (Type) _____		HEAL No. <u>2105B44</u>			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type
<u>05/22/2021</u>	<u>1340</u>	<u>S</u>	<u>A2-S 4'</u>	<u>Juv</u>	<u>0.9-0.7 = 0.7</u>
	<u>1345</u>		<u>A2-S 6'</u>		<u>2105B44</u>
	<u>1350</u>		<u>A2-S 8'</u>		<u>013</u>
	<u>1400</u>		<u>A2-7 10'</u>		<u>014</u>
	<u>1415</u>		<u>A2-6 4'</u>		<u>015</u>
	<u>1420</u>		<u>A2-6 6'</u>		<u>016</u>
	<u>1425</u>		<u>A2-6 8'</u>		<u>017</u>
	<u>1430</u>		<u>A2-6 10'</u>		<u>018</u>
	<u>1435</u>		<u>A2-6 12'</u>		<u>019</u>
	<u>1440</u>		<u>A2-8 4'</u>		<u>020</u>
	<u>1500</u>		<u>TP1-S</u>		<u>021</u>
	<u>1505</u>		<u>TP1-2</u>		<u>022</u>
					<u>023</u>
					<u>024</u>
Date:	Time:	Relinquished by:	Received by:		
<u>05/22/2021</u>	<u>1200</u>	<u>Zach Canine / jzh</u>	<u>Johnny Spator per</u>		
Date:	Time:	Relinquished by:	Received by:		
<u>5/24/21</u>	<u>1900</u>	<u>Canine</u>	<u>Spator per 7:40</u>		

Remarks: Please email zach.comino@GHD.com along with others listed above

Direct Bill to FOG Chase Settlement

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.



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

July 08, 2021

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

RE: Jackson B 17 Flowline 2

OrderNo.: 2106E74

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/29/2021 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 2106E74

Date Reported: 7/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Jackson B 17 Flowline 2

Lab Order: 2106E74

Lab ID: 2106E74-001

Collection Date: 6/28/2021 6:10:00 AM

Client Sample ID: HA4-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/2/2021 9:45:00 PM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/30/2021 11:29:10 PM	61007
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/30/2021 11:29:10 PM	61007
Surr: DNOP	71.7	70-130		%Rec	1	6/30/2021 11:29:10 PM	61007
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/2/2021 10:33:50 PM	61005
Surr: BFB	95.8	70-130		%Rec	1	7/2/2021 10:33:50 PM	61005
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/2/2021 10:33:50 PM	61005
Toluene	ND	0.049		mg/Kg	1	7/2/2021 10:33:50 PM	61005
Ethylbenzene	ND	0.049		mg/Kg	1	7/2/2021 10:33:50 PM	61005
Xylenes, Total	ND	0.098		mg/Kg	1	7/2/2021 10:33:50 PM	61005
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	7/2/2021 10:33:50 PM	61005

Lab ID: 2106E74-002

Collection Date: 6/28/2021 6:15:00 AM

Client Sample ID: HA4-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/2/2021 10:47:02 PM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/30/2021 11:53:19 PM	61007
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/30/2021 11:53:19 PM	61007
Surr: DNOP	79.7	70-130		%Rec	1	6/30/2021 11:53:19 PM	61007
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/2/2021 10:57:20 PM	61005
Surr: BFB	97.6	70-130		%Rec	1	7/2/2021 10:57:20 PM	61005
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/2/2021 10:57:20 PM	61005
Toluene	ND	0.049		mg/Kg	1	7/2/2021 10:57:20 PM	61005
Ethylbenzene	ND	0.049		mg/Kg	1	7/2/2021 10:57:20 PM	61005
Xylenes, Total	ND	0.099		mg/Kg	1	7/2/2021 10:57:20 PM	61005
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	7/2/2021 10:57:20 PM	61005

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

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

Analytical Report

Lab Order: 2106E74

Date Reported: 7/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Jackson B 17 Flowline 2

Lab Order: 2106E74

Lab ID: 2106E74-003

Collection Date: 6/28/2021 6:20:00 AM

Client Sample ID: HA5-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	61		mg/Kg	20	7/2/2021 10:59:27 PM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/3/2021 5:24:59 PM	61039
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/3/2021 5:24:59 PM	61039
Surr: DNOP	97.4	70-130		%Rec	1	7/3/2021 5:24:59 PM	61039
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/3/2021 12:07:44 AM	61022
Surr: BFB	96.7	70-130		%Rec	1	7/3/2021 12:07:44 AM	61022
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/3/2021 12:07:44 AM	61022
Toluene	ND	0.046		mg/Kg	1	7/3/2021 12:07:44 AM	61022
Ethylbenzene	ND	0.046		mg/Kg	1	7/3/2021 12:07:44 AM	61022
Xylenes, Total	ND	0.092		mg/Kg	1	7/3/2021 12:07:44 AM	61022
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	7/3/2021 12:07:44 AM	61022

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

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

Analytical Report

Lab Order: 2106E74

Date Reported: 7/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Jackson B 17 Flowline 2

Lab Order: 2106E74**Lab ID:** 2106E74-004**Collection Date:** 6/28/2021 6:25:00 AM**Client Sample ID:** HA5-2**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/2/2021 11:11:52 PM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/3/2021 6:36:42 PM	61039
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/3/2021 6:36:42 PM	61039
Surr: DNOP	119	70-130		%Rec	1	7/3/2021 6:36:42 PM	61039
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/3/2021 1:18:16 AM	61022
Surr: BFB	96.7	70-130		%Rec	1	7/3/2021 1:18:16 AM	61022
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/3/2021 1:18:16 AM	61022
Toluene	ND	0.047		mg/Kg	1	7/3/2021 1:18:16 AM	61022
Ethylbenzene	ND	0.047		mg/Kg	1	7/3/2021 1:18:16 AM	61022
Xylenes, Total	ND	0.093		mg/Kg	1	7/3/2021 1:18:16 AM	61022
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	7/3/2021 1:18:16 AM	61022

Lab ID: 2106E74-005**Collection Date:** 6/28/2021 6:30:00 AM**Client Sample ID:** HA6-S**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/2/2021 11:24:17 PM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/3/2021 7:00:33 PM	61039
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/3/2021 7:00:33 PM	61039
Surr: DNOP	98.2	70-130		%Rec	1	7/3/2021 7:00:33 PM	61039
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2021 2:28:39 AM	61022
Surr: BFB	101	70-130		%Rec	1	7/3/2021 2:28:39 AM	61022
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/3/2021 2:28:39 AM	61022
Toluene	ND	0.048		mg/Kg	1	7/3/2021 2:28:39 AM	61022
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2021 2:28:39 AM	61022
Xylenes, Total	ND	0.096		mg/Kg	1	7/3/2021 2:28:39 AM	61022
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/3/2021 2:28:39 AM	61022

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

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

Analytical Report

Lab Order: 2106E74

Date Reported: 7/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Jackson B 17 Flowline 2

Lab Order: 2106E74

Lab ID: 2106E74-006

Collection Date: 6/28/2021 6:35:00 AM

Client Sample ID: HA6-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/2/2021 11:36:42 PM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	7/3/2021 7:24:23 PM	61039
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/3/2021 7:24:23 PM	61039
Surr: DNOP	108	70-130		%Rec	1	7/3/2021 7:24:23 PM	61039
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/3/2021 2:52:13 AM	61022
Surr: BFB	103	70-130		%Rec	1	7/3/2021 2:52:13 AM	61022
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/3/2021 2:52:13 AM	61022
Toluene	ND	0.046		mg/Kg	1	7/3/2021 2:52:13 AM	61022
Ethylbenzene	ND	0.046		mg/Kg	1	7/3/2021 2:52:13 AM	61022
Xylenes, Total	ND	0.091		mg/Kg	1	7/3/2021 2:52:13 AM	61022
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	7/3/2021 2:52:13 AM	61022

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

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

Analytical Report

Lab Order: 2106E74

Date Reported: 7/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Jackson B 17 Flowline 2

Lab Order: 2106E74

Lab ID: 2106E74-007

Collection Date: 6/28/2021 6:40:00 AM

Client Sample ID: HA7-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/2/2021 11:49:06 PM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/3/2021 7:48:16 PM	61039
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	7/3/2021 7:48:16 PM	61039
Surr: DNOP	113	70-130		%Rec	1	7/3/2021 7:48:16 PM	61039
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/3/2021 4:26:09 AM	61022
Surr: BFB	99.1	70-130		%Rec	1	7/3/2021 4:26:09 AM	61022
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/3/2021 4:26:09 AM	61022
Toluene	ND	0.046		mg/Kg	1	7/3/2021 4:26:09 AM	61022
Ethylbenzene	ND	0.046		mg/Kg	1	7/3/2021 4:26:09 AM	61022
Xylenes, Total	ND	0.093		mg/Kg	1	7/3/2021 4:26:09 AM	61022
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/3/2021 4:26:09 AM	61022

Lab ID: 2106E74-008

Collection Date: 6/28/2021 6:45:00 AM

Client Sample ID: HA7-2

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	7/3/2021 12:01:31 AM	61106
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/3/2021 8:12:15 PM	61039
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/3/2021 8:12:15 PM	61039
Surr: DNOP	105	70-130		%Rec	1	7/3/2021 8:12:15 PM	61039
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2021 4:49:39 AM	61022
Surr: BFB	104	70-130		%Rec	1	7/3/2021 4:49:39 AM	61022
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/3/2021 4:49:39 AM	61022
Toluene	ND	0.048		mg/Kg	1	7/3/2021 4:49:39 AM	61022
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2021 4:49:39 AM	61022
Xylenes, Total	ND	0.096		mg/Kg	1	7/3/2021 4:49:39 AM	61022
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	7/3/2021 4:49:39 AM	61022

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

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

Analytical Report

Lab Order: 2106E74

Date Reported: 7/8/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Jackson B 17 Flowline 2

Lab Order: 2106E74

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

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

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2106E74
08-Jul-21

Client: GHD Midland
Project: Jackson B 17 Flowline 2

Sample ID: MB-61106	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 61106	RunNo: 79537
Prep Date: 7/2/2021	Analysis Date: 7/2/2021	SeqNo: 2798059 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-61106	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 61106	RunNo: 79537
Prep Date: 7/2/2021	Analysis Date: 7/2/2021	SeqNo: 2798060 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 95.8 90 110

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- 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#: 2106E74

08-Jul-21

Client: GHD Midland**Project:** Jackson B 17 Flowline 2

Sample ID: MB-61007	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 61007		RunNo: 79496							
Prep Date: 6/29/2021	Analysis Date: 6/30/2021		SeqNo: 2794893		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		95.8	70	130			

Sample ID: LCS-61007	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 61007		RunNo: 79496							
Prep Date: 6/29/2021	Analysis Date: 6/30/2021		SeqNo: 2794895		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.8	68.9	141			
Surr: DNOP	4.2		5.000		84.1	70	130			

Sample ID: 2106E74-003AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: HA5-S	Batch ID: 61039		RunNo: 79583							
Prep Date: 6/30/2021	Analysis Date: 7/3/2021		SeqNo: 2798899		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.9	49.55	0	91.0	15	184			
Surr: DNOP	4.9		4.955		98.4	70	130			

Sample ID: 2106E74-003AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: HA5-S	Batch ID: 61039		RunNo: 79583							
Prep Date: 6/30/2021	Analysis Date: 7/3/2021		SeqNo: 2798901		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.9	49.46	0	87.7	15	184	3.90	23.9	
Surr: DNOP	4.7		4.946		94.8	70	130	0	0	

Sample ID: MB-61039	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 61039		RunNo: 79583							
Prep Date: 6/30/2021	Analysis Date: 7/3/2021		SeqNo: 2798903		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.3	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106E74

08-Jul-21

Client: GHD Midland**Project:** Jackson B 17 Flowline 2

Sample ID: LCS-61039	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 61039				RunNo: 79583					
Prep Date: 6/30/2021	Analysis Date: 7/3/2021				SeqNo: 2798904	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	141			
Surr: DNOP	5.4		5.000		109	70	130			

Sample ID: MB-61070	SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 61070				RunNo: 79583					
Prep Date: 7/1/2021	Analysis Date: 7/4/2021				SeqNo: 2798932	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.5	70	130			

Sample ID: LCS-61070	SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 61070				RunNo: 79583					
Prep Date: 7/1/2021	Analysis Date: 7/4/2021				SeqNo: 2798933	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.4	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106E74

08-Jul-21

Client: GHD Midland**Project:** Jackson B 17 Flowline 2

Sample ID: mb-61005	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61005	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/2/2021	SeqNo: 2797787 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	70	130			

Sample ID: lcs-61005	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61005	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/2/2021	SeqNo: 2797788 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.6	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Sample ID: mb-61022	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61022	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/3/2021	SeqNo: 2797811 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.4	70	130			

Sample ID: lcs-61022	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61022	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/2/2021	SeqNo: 2797812 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.1	78.6	131			
Surr: BFB	1100		1000		107	70	130			

Sample ID: 2106e74-003ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: HA5-S	Batch ID: 61022	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/3/2021	SeqNo: 2797814 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.36	0	92.1	61.3	114			
Surr: BFB	990		934.6		106	70	130			

Sample ID: 2106e74-003amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: HA5-S	Batch ID: 61022	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/3/2021	SeqNo: 2797815 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2106E74
08-Jul-21

Client: GHD Midland
Project: Jackson B 17 Flowline 2

Sample ID: 2106e74-003amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: HA5-S		Batch ID: 61022		RunNo: 79564						
Prep Date: 6/29/2021		Analysis Date: 7/3/2021		SeqNo: 2797815		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.6	23.21	0	92.6	61.3	114	0.176	20	
Surr: BFB	1000		928.5		108	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 Quantitative Limit
- S

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

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106E74

08-Jul-21

Client: GHD Midland**Project:** Jackson B 17 Flowline 2

Sample ID: mb-61005	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61005	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/2/2021	SeqNo: 2797845 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-61005	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61005	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/2/2021	SeqNo: 2797846 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.92	0.050	1.000	0	91.5	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: mb-61022	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61022	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/3/2021	SeqNo: 2797869 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: LCS-61022	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61022	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/2/2021	SeqNo: 2797870 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.2	80	120			
Toluene	0.87	0.050	1.000	0	87.2	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.3	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2106E74

08-Jul-21

Client: GHD Midland**Project:** Jackson B 17 Flowline 2

Sample ID: 2106e74-004ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: HA5-2	Batch ID: 61022	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/3/2021	SeqNo: 2797873 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9747	0	84.3	80	120			
Toluene	0.85	0.049	0.9747	0	87.1	80	120			
Ethylbenzene	0.85	0.049	0.9747	0	87.3	80	120			
Xylenes, Total	2.6	0.097	2.924	0	87.4	80	120			
Surr: 4-Bromofluorobenzene	0.96		0.9747		98.1	70	130			

Sample ID: 2106e74-004amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: HA5-2	Batch ID: 61022	RunNo: 79564								
Prep Date: 6/29/2021	Analysis Date: 7/3/2021	SeqNo: 2797874 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9843	0	85.8	80	120	2.78	20	
Toluene	0.88	0.049	0.9843	0	89.6	80	120	3.79	20	
Ethylbenzene	0.88	0.049	0.9843	0	89.5	80	120	3.49	20	
Xylenes, Total	2.7	0.098	2.953	0	90.4	80	120	4.33	20	
Surr: 4-Bromofluorobenzene	1.0		0.9843		104	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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix

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



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

Sample Log-In Check List

Client Name: GHD

Work Order Number: 2106E74

RcptNo: 1

Received By: Juan Rojas

6/29/2021 7:25:00 AM

Juan Rojas

Completed By: Cheyenne Cason

6/29/2021 7:48:15 AM

Cason

Reviewed By:

*JR 6/29/21*Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(≤ 2 or >12 unless noted)

Adjusted?

Checked by: *KPG 6/29/21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

2460 Main St Suite 108 Alameda NM 88210

Phone #: (505) 372-4218

email or Fax#: Becky Haskell @GHD.com

QA/QC Package: Direct Settlement @concrete.com

Tom Larson @GHD.com

Level 4 (Full Validation)

Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard☐ Rush

Project Name:

Jackson B #17 Flowline #2

Project #:

11228321

Project Manager:

Becky Haskell

Tom Larson

Sampler:

Zach Combs

On Ice:

☒ Yes ☐ No

of Coolers:

1

Cooler Temp (including CF): 41.8-40.2-41.6 (°C)

Container

Type and #

Preservative

Type

HEAL No.

210674

001

002

003

004

005

006

007

008

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010

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012

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Incident ID	nAPP2110638434
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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.

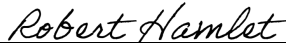
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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.

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature:  Date: 09/30/2021
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Robert Hamlet Date: 2/17/2022

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 2/17/2022

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 53403

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 53403
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The remediation plan is conditionally approved. Test pit A2-1 will need to be vertically delineated. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 "Closure Criteria for Soils Impacted by a Release" included in the spill rule. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please collect confirmation samples, representing no more than 200 ft2. The work will need to occur in 90 days after the work plan has been approved.	2/17/2022