

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)

|   |  |  |
|---|--|--|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) Unknown   | Volume Recovered (bbls) 0                                |
| <input type="checkbox"/> Produced Water       | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
|   | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate           | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas          | Volume Released (Mcf)  | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> 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?<br><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                | If YES, for what reason(s) does the responsible party consider this a major release?<br><br><br><br><br><br><br><br><br><br> |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br><br><br><br><br><br><br><br><br><br> |  |

### Initial Response

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

|  |   |
|--|---|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" type="checkbox"/> 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:<br><br><br><br><br><br><br><br><br><br>   |   |
| 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 &amp; 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>                  |
| <b><u>OCD Only</u></b><br><br>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?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: Chase Settle Date: 05/12/2022  
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: Chase Settle Date: 05/12/2022  
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

May 10, 2022

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

Re: **Amended 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 Amended 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 file a C-141 for this suspect release location.

A Site Characterization and Remediation Work Plan dated September 30, 2021 was submitted to the NMOCD for approval. The Site Characterization and Remediation Work Plan was approved by the NMOCD on February 17, 2022. 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 one hundred-twenty-five (125) feet below ground surface which is located within one half (0.5) mile from the Site. The Jackson B #59 Temp Well was left open for seventy-two (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 below ground surface. 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 I 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 ft                        |

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 below ground surface. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Analytical results indicated 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 I closure criteria.

On May 25, 2021, 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 vertical extent of impacts.

Additionally, two (2) additional test pits, TP-1 and TP-2, and three (3) hand auger borings (HA1 through HA3) were installed around the suspected affected area to assess the horizontal impacts. The test pit locations were excavated to depths ranging from surface to approximately twenty (20) feet below ground surface. 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 I closure criteria.

On June 28, 2021, GHD returned to the site to install four (4) additional hand auger borings (HA4 through HA7) to fully delineate the horizontal extent of the release. Soil samples were collected at surface and two (2) feet below ground surface. 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 I 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 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 Area #2 site is further off the road a decision was made that a different rig would need to be brought in to install the delineation 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.

Once the proper permits were obtained, GHD, Kinder Morgan, and Talon returned to the EOG Site on December 8, 2021, to install a boring in the A2-1 location for vertical delineation of TPH impacts. A boring was installed to a total approximate depth of thirty-five (35) feet below ground surface, and three (3) soil samples were collected at twenty-five (25), thirty (30), and thirty-five (35) feet below ground surface. 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. The soil boring log is provided as Attachment B.

Figure 2 depicts the locations of the delineation sample points, analytical concentrations, and the proposed excavation area. 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**

GHD, on behalf of EOG, proposes to excavate the areas to the following depths:

- A2-3 will be excavated two (2) to four (4) feet below grade or until the soils in the surface to four (4) feet below grade exhibit TPH concentrations below 100 mg/kg and chloride concentrations below 600 mg/kg.
- A2-2, A2-4, A2-8 and A2-9 will be excavated to four (4) feet below grade or until the soils in the surface to four (4) feet below grade exhibit TPH concentrations below 100 mg/kg and chloride concentrations below 600 mg/kg.
- A2-5, A2-7, and A2-10 will be excavated six (6) to eight (8) feet below grade or until the soils exhibit TPH concentrations below 1,000 mg/kg for GRO+DRO and 2,500 mg/kg for GRO+DRO+MRO and chloride concentrations below 20,000 mg/kg.
- A2-6 will be excavated ten (10) to twelve (12) feet below grade or until the soils exhibit TPH concentrations below 1,000 mg/kg for GRO+DRO and 2,500 mg/kg for GRO+DRO+MRO and chloride concentrations below 20,000 mg/kg.
- A2-1 will be excavated to twenty (20) to twenty-four (24) feet below grade (or as deep as safely possible).

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

The excavation will be backfilled with soil transported to the site. Excavated soils will be transported to a NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 864 to 1,043 cubic yards depending on the final dimensions of the excavation based on the depth and site conditions encountered. The excavation will be backfilled with non-impacted soil transported to the site. The remediation will be performed within 90 days after the work plan has been approved. Once the confirmation samples collected are below Table I closure criteria, a closure report will be prepared to document remediation activities and submitted to the NMOCD.

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

Sincerely,

GHD



Becky Haskell  
Senior Project Manager



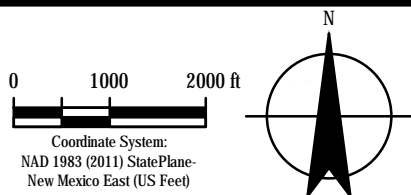
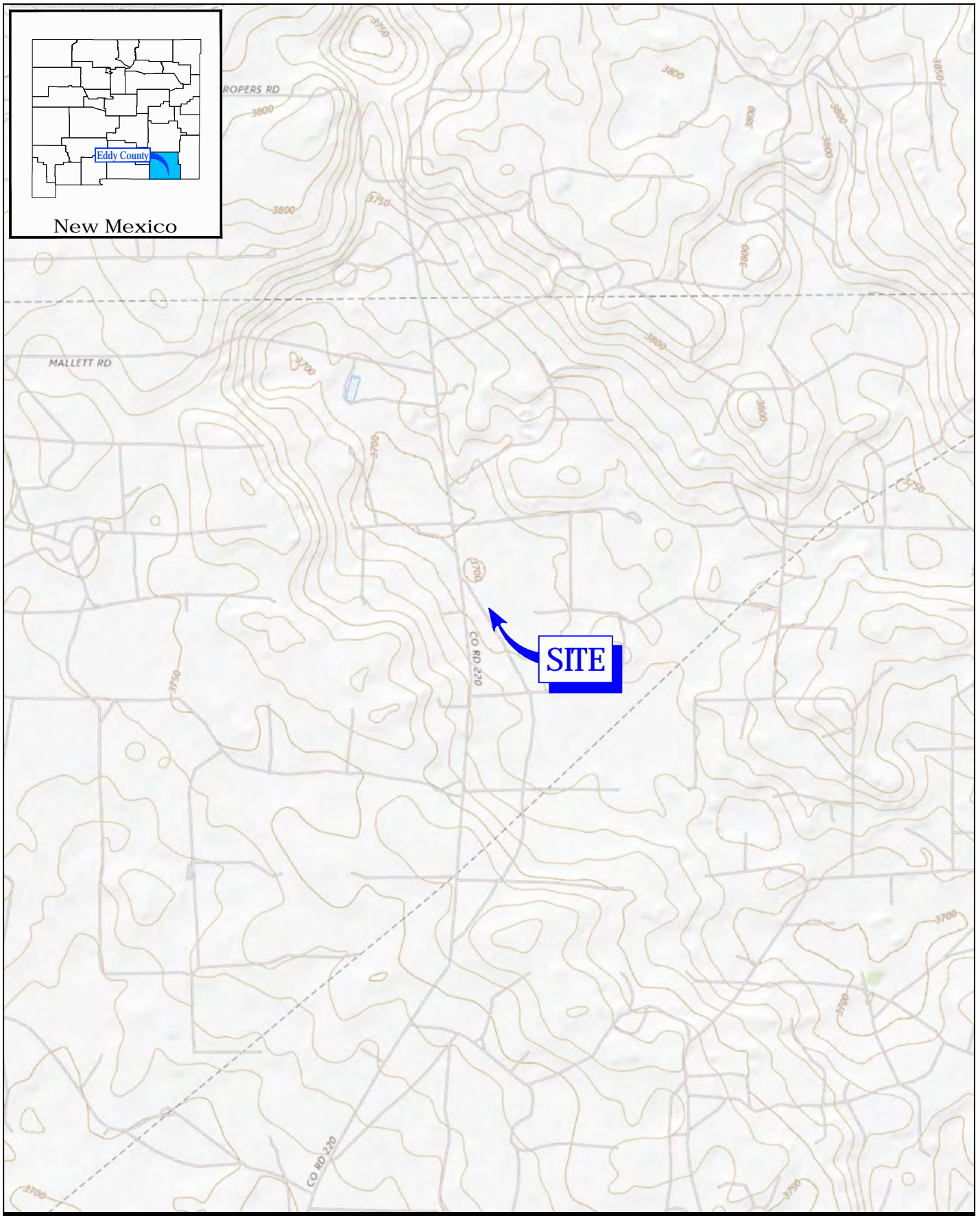
Tom Larson  
Project Director

BH/tl/2

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

cc:       Chase Settle

## Figures



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

Project No. 11228321  
Date September 2021

SITE LOCATION MAP

FIGURE 1

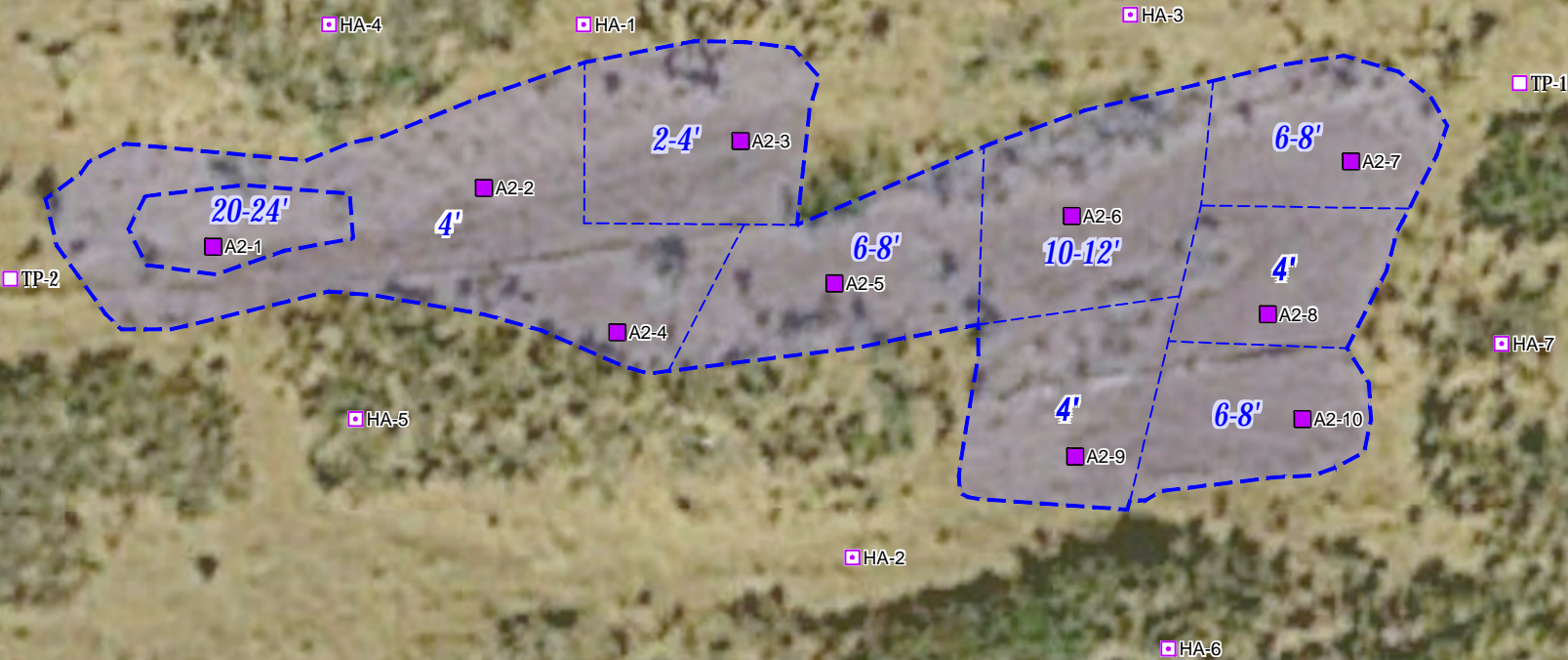
Filename: \\ghdnet\ghd\US\Midland\Projects\569\11228321\Digital\_Documents\ACAD 2018\Figures\RPT001\11228321-GHD-0000-RPT-EN-0101\_DL-001.dwg


Data Source: USGS 7.5 Minute Quad "Loco Hills, New Mexico"  
Lat/Long 32.858114° North 103.955244° West





| Sample ID                  | Sample Date | Depth (feet bgs) | TPH   |         |               |                   |             |             |              |
|----------------------------|-------------|------------------|---|---------|---------------|-------------------|-------------|-------------|--------------|
|                            |             |                  | Benzene   | BTEX    | DRO (C10-C28) | Total GRO/DRO/MRO | Chloride    |             |              |
|                            |             |                  | (mg/Kg)   | (mg/Kg) | (mg/Kg)       | (mg/Kg)           | (mg/Kg)     |             |              |
|                            |             |                  | Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 |         |               |                   |             |             |              |
|                            |             |                  |   |         | 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   | 3,000         | 6,700             | 820         |             |              |
| A2-1 2'                    | 4/20/21     | 2'               | <0.12   | <0.50   | 900           | 3,100             | 78          |             |              |
| A2-1 4'                    | 4/20/21     | 4'               | <0.12   | <0.49   | 1,200         | 4,600             | 420         |             |              |
| A2-1 5'                    | 4/20/21     | 5'               | <0.12   | <0.50   | 4,300         | 9,800             | 540         |             |              |
| A2-1 6'                    | 5/25/21     | 6'               | <0.12   | <0.50   | 8,800         | 11,531            | 1100        |             |              |
| A2-1 8'                    | 5/25/21     | 8'               | <0.12   | <0.50   | 3,400         | 5,529             | 2100        |             |              |
| A2-1 10'                   | 5/25/21     | 10'              | <0.12 D   | <0.49   | 4,300         | 7,026             | 1300        |             |              |
| A2-1 14'                   | 5/25/21     | 14'              | <0.12   | <0.50   | 7,200         | 11,320            | 4300        |             |              |
| A2-1 16'                   | 5/25/21     | 16'              | <0.12   | <0.49   | 11,000        | 18,290            | 5100        |             |              |
| A2-1 18'                   | 5/25/21     | 18'              | <0.12   | 19.3    | 4,700         | 7,600             | 4400        |             |              |
| A2-1 20'                   | 5/25/21     | 20'              | <0.12   | 30.8    | 6,000         | 9,490             | 4500        |             |              |
| A2-2 Sur                   | 4/20/21     | Surface          | <0.12   | <0.49   | 8,600         | 12,800            | 1,900       |             |              |
| A2-2 2'                    | 4/20/21     | 2'               | <0.12   | <0.50   | 1,200         | 3,600             | 180         |             |              |
| A2-2 4'                    | 4/20/21     | 4'               | <0.12   | <0.49   | 200           | 930               | 340         |             |              |
| A2-2 6'                    | 5/25/21     | 6'               | <0.12 D   | <0.47   | 380           | 1,130             | 370         |             |              |
| A2-2 8'                    | 5/25/21     | 8'               | <0.12 D   | <0.48   | 520           | 1,380             | 170         |             |              |
| A2-2 10'                   | 5/25/21     | 10'              | <0.12 D   | <0.48   | 450           | 1,250             | 170         |             |              |
| A2-3 Sur                   | 4/20/21     | 0'               | <0.12   | <0.49   | 2,700         | 8,300             | <80         |             |              |
| A2-3 2'                    | 4/20/21     | 2'               | <0.12   | <0.49   | 1,100         | 2,900             | <80         |             |              |
| A2-3 4'                    | 5/25/21     | 4'               | <0.023  | <0.093  | <9.9          | <49               | <60         |             |              |
| A2-4 Sur                   | 4/20/21     | Surface          | <0.12   | <0.49   | 2,400         | 7,600             | <80         |             |              |
| A2-4 2'                    | 4/20/21     | 2'               | <0.12   | <0.49   | 1,200         | 2,900             | <80         |             |              |
| A2-4 3'                    | 4/20/21     | 3'               | <0.12   | <0.48   | 150           | 1,000             | <80         |             |              |
| A2-4 4'                    | 5/25/21     | 4'               | <0.12 D   | <0.48   | 290           | 1,130             | 200         |             |              |
| A2-5 Sur                   | 4/20/21     | Surface          | <0.12   | <0.49   | 4,600         | 12,800            | <80         |             |              |
| A2-5 2'                    | 4/20/21     | 2'               | <0.12   | <0.49   | 290           | 1,590             | <80         |             |              |
| A2-5 4'                    | 5/25/21     | 4'               | <0.12 D   | <0.48   | 3,300         | 7,100             | <80         |             |              |
| A2-5 6'                    | 5/25/21     | 6'               | <0.12 D   | <0.48   | 2,700         | 4,900             | 140         |             |              |
| A2-5 8'                    | 5/25/21     | 8'               | <0.025  | <0.098  | <9.7          | <49               | 300         |             |              |
| A2-6 Sur                   | 4/20/21     | Surface          | <0.12   | <0.49   | 4,100         | 10,300            | 82          |             |              |
| A2-6 2'                    | 4/20/21     | 2'               | <0.12   | <0.49   | 150           | 820               | <80         |             |              |
| A2-6 4'                    | 5/25/21     | 4'               | <0.12 D   | <0.47   | 370           | 1,010             | 65          |             |              |
| A2-6 6'                    | 5/25/21     | 6'               | <0.12 D   | <0.48   | 1,000         | 2,900             | 200         |             |              |
| A2-6 8'                    | 5/25/21     | 8'               | <0.11 D   | <0.46   | 3,100         | 5,600             | 700         |             |              |
| A2-6 10'                   | 5/25/21     | 10'              | <0.12 D   | <0.49   | 7,300         | 11,500            | 2200        |             |              |
| A2-6 12'                   | 5/25/21     | 12'              | <0.024  | <0.096  | <9.5          | <47               | 2000        |             |              |
| A2-7 Sur                   | 4/20/21     | Surface          | <0.12   | <0.49   | 1,000         | 4,500             | <59         |             |              |
| A2-7 2'                    | 4/20/21     | 2'               | <0.12   | <0.50   | 3,600         | 6,700             | <60         |             |              |
| A2-7 4'                    | 4/20/21     | 4'               | <0.12   | <0.50   | 10,000        | 15,800            | <80         |             |              |
| A2-7 6'                    | 4/20/21     | 6'               | <0.12   | <0.50   | 4,500         | 8,400             | <61         |             |              |
| A2-7 8'                    | 4/20/21     | 8'               | <0.12   | <0.50   | 470           | 1,470             | <80         |             |              |
| A2-7 10'                   | 5/25/21     | 10'              | <0.024  | <0.098  | <9.3          | <47               | <59         |             |              |
| A2-8 Sur                   | 4/20/21     | Surface          | <0.12   | <0.50   | 3,000         | 6,200             | 540         |             |              |
| A2-8 1'                    | 4/20/21     | 1'               | <0.12   | <0.49   | 770           | 2,270             | <80         |             |              |
| A2-8 4'                    | 5/25/21     | 4'               | <0.12 D   | <0.46   | 100           | 680               | <61         |             |              |
| A2-9 Sur                   | 4/20/21     | Surface          | <0.12   | <0.49   | 6,300         | 16,300            | 160         |             |              |
| A2-9 2'                    | 4/20/21     | 2'               | <0.12   | <0.48   | 1,800         | 4,200             | <60         |             |              |
| A2-9 4'                    | 4/20/21     | 4'               | <0.12   | <0.50   | 240           | 1,130             | 110         |             |              |
| A2-9 6'                    | 5/25/21     | 6'               | <0.12   | <0.50   | 520           | 1,820             | <60         |             |              |
| A2-9 8'                    | 5/25/21     | 8'               | <0.024  | <0.097  | <9.5          | <48               | <60         |             |              |
| A2-10 Sur                  | 4/20/21     | Surface          | <0.12   | <0.49   | 4,900         | 9,500             | 2,400       |             |              |
| A2-10 2'                   | 4/20/21     | 2'               | <0.12   | <0.50   | 230           | 1,010             | <80         |             |              |
| A2-10 4'                   | 4/20/21     | 4'               | <0.12   | <0.50   | 470           | 1,870             | <61         |             |              |
| A2-10 6'                   | 5/25/21     | 6'               | <0.025  | <0.098  | 1,600         | 4,300             | <59         |             |              |
| A2-10 8'                   | 5/25/21     | 8'               | <0.12   | <0.49   | 140           | 370               | 77          |             |              |


| Sample ID                  | Sample Date | Depth (feet bgs) | Benzene | BTEX    | TPH   |                   | Chloride |
|----------------------------|-------------|------------------|---------|---------|---|-------------------|----------|
|                            |             |                  | (mg/Kg) | (mg/Kg) | DRO (C10-C28)   | Total GRO/DRO/MRO | (mg/Kg)  |
|                            |             |                  |         |         | Table 1 Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 |                   |          |
|                            |             |                  |         |         |   |                   |          |
| Initial Assessment Samples |             |                  |         |         |   |                   |          |
| HA1-S                      | 5/25/21     | Surface          | <0.025  | <0.099  | <9.2  | <46               | <59      |
| HA1-2                      | 5/25/21     | 2'               | <0.024  | <0.097  | <9.2  | <46               | <60      |
| HA2-S                      | 5/25/21     | Surface          | <0.025  | <0.099  | <9.4  | <47               | <60      |
| HA2-2                      | 5/25/21     | 2'               | <0.025  | <0.10   | <9.5  | <47               | <60      |
| HA3-S                      | 5/25/21     | Surface          | <0.025  | <0.098  | <9.5  | <48               | <60      |
| HA3-2                      | 5/25/21     | 2'               | <0.025  | <0.098  | <9.3  | <47               | <61      |
|                            |             |                  |         |         |   |                   |          |
| HA4-S                      | 6/28/21     | Surface          | <0.024  | <0.098  | <10   | <50               | <60      |
| HA4-2                      | 6/28/21     | 2'               | <0.025  | <0.099  | <9.9  | <50               | <60      |
| HA5-S                      | 6/28/21     | Surface          | <0.023  | <0.092  | <9.2  | <46               | <61      |
| HA5-2                      | 6/28/21     | 2'               | <0.023  | <0.093  | <9.0  | <45               | <60      |
| HA6-S                      | 6/28/21     | Surface          | <0.024  | <0.096  | <9.9  | <49               | <60      |
| HA6-2                      | 6/28/21     | 2'               | <0.023  | <0.091  | <8.7  | <44               | <60      |
| HA7-S                      | 6/28/21     | Surface          | <0.023  | <0.093  | <10   | <51               | <60      |
| HA7-2                      | 6/28/21     | 2'               | <0.024  | <0.096  | <9.3  | <47               | <60      |
|                            |             |                  |         |         |   |                   |          |
| TP1-S                      | 5/25/21     | Surface          | <0.024  | <0.094  | <8.8  | <44               | <59      |
| TP1-2                      | 5/25/21     | 2'               | <0.024  | <0.095  | <9.7  | <48               | <61      |
|                            |             |                  |         |         |   |                   |          |
| TP2-S                      | 5/25/21     | Surface          | <0.024  | <0.098  | <9.3  | <47               | <60      |
| TP2-2                      | 5/25/21     | 2'               | <0.024  | <0.098  | <8.9  | <44               | <60      |
| Soil Boring Samples        |             |                  |         |         |   |                   |          |
| A2-1-25                    | 12/8/21     | 25'              | <0.12   | <0.48   | 120   | 230               | 1,500    |
| A2-1-30                    | 12/8/21     | 30'              | <0.023  | <0.092  | <10   | <50               | <61      |
| A2-1-35                    | 12/8/21     | 35'              | <0.023  | <0.092  | <10   | <50               | <61      |



**PROPOSED EXCAVATED AREA**

**TEST PIT LOCATION**

**HAND AUGER LOCATION**

**HAND AUGER/TEST PIT LOCATION**

**DEPTH**  
DEPTH OF SAMPLE (FT)

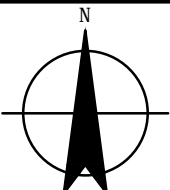
**BTEX**  
BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)


**TPH**  
TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)

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

01020 ft

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





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

SITE ASSESSMENT:  
SOIL ANALYTICAL RESULTS MAP

Project No. 11228321  
Date February 2022

**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 (ft bgs) | Benzene  | Toluene | Ethylbenzene | Xylenes | BTEX     | Total Petroleum Hydrocarbons (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      |          |
| <b>Initial Assessment Samples</b> |             |                |  |         |              |         |          |                                    |               |               |                   |          |
| 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 (ft bgs) | Benzene  | Toluene | Ethylbenzene | Xylenes | BTEX     | Total Petroleum Hydrocarbons (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 (ft bgs) | Benzene  | Toluene | Ethylbenzene | Xylenes | BTEX     | Total Petroleum Hydrocarbons (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          |
| <b>Soil Boring Samples</b> |             |                |  |         |              |         |          |                                    |               |               |                   |              |
| A2-1-25                    | 12/8/21     | 25'            | <0.12  | <0.24   | <0.24        | <0.48   | <0.48    | <24                                | <b>120</b>    | <b>110</b>    | <b>230</b>        | <b>1,500</b> |
| A2-1-30                    | 12/8/21     | 30'            | <0.023   | <0.046  | <0.046       | <0.092  | <0.092   | <4.6                               | <10           | <50           | <50               | <61          |
| A2-1-35                    | 12/8/21     | 35'            | <0.023   | <0.046  | <0.046       | <0.092  | <0.092   | <4.6                               | <10           | <50           | <50               | <61          |

**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 Modified.
-  Sample Point Excavated

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

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

# 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<br>Include composition, color, grain size, moisture, hardness, plasticity, density | Hydrocarbon Odor                        | PID (ppm) |
|------|--------------------------|----------------------|----------------------|------|-----------------|---|---|-----------|
|      | <input type="checkbox"/> | 0-30'                |                      |      |                 | Red/brown fine Sand (SP)  | <u>None</u><br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> | 30-40'               |                      |      |                 | Red/brown fine Sand (SP) with varying amounts of silt and caliche   | <u>None</u><br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> | 40-80'               |                      |      |                 | Dry, dark red/brown sandy Silts (SM)  | <u>None</u><br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> | 80-125'              |                      |      |                 | Red/brown fine Sand (SP)  | <u>None</u><br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 | __ TD 125' __   | None<br>Slight<br>Mod.<br>Strong        |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong        |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong        |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong        |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong        |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong        |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong        |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>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<br>Include composition, color, grain size, moisture, hardness, plasticity, density | Hydrocarbon Odor                 | PID (ppm) |
|------|--------------------------|----------------------|----------------------|------|-----------------|---|----------------------------------|-----------|
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |
|      | <input type="checkbox"/> |                      |                      |      |                 |   | None<br>Slight<br>Mod.<br>Strong |           |

**Notes:**

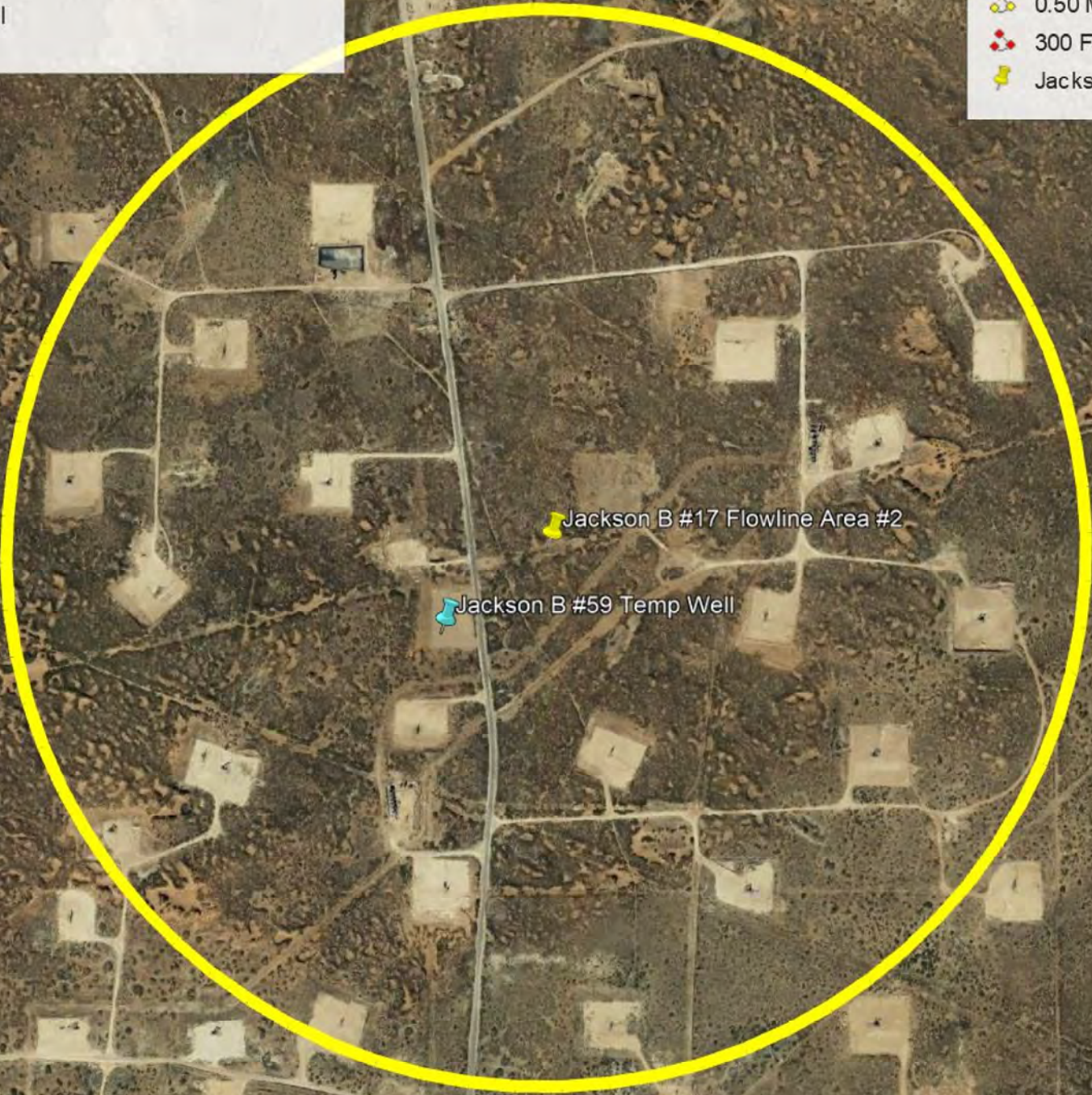
The borehole was advanced to 125' below ground surface (bgs). A 2-inch diameter temporary well constructed of schedule 40 PVC thread coupled to 10-feet of machine slotted well screen was installed in the open borehole. 72-hours after installation, a Solinst water level meter was utilized to determine 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

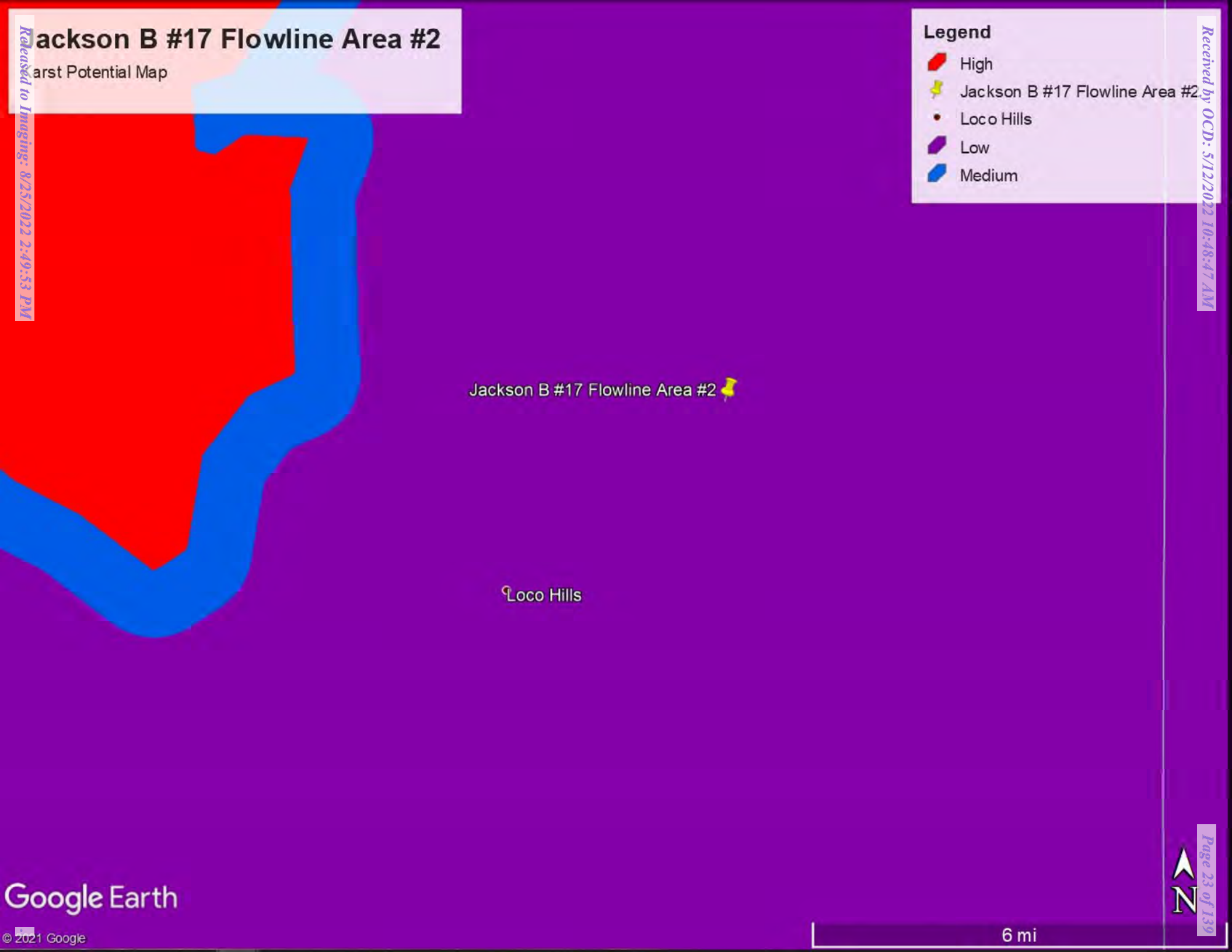
 High

 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

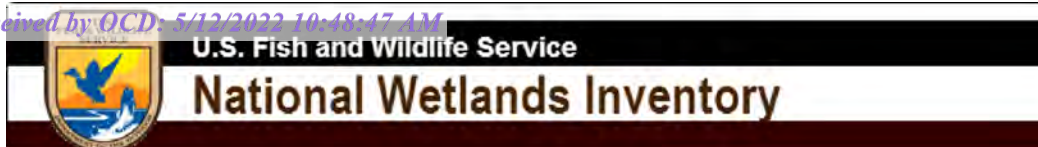
12

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 FIRMette



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)<br>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   |
|                             |  | Area of Undetermined Flood Hazard Zone D  |
| GENERAL STRUCTURES          |  | Channel, Culvert, or Storm Sewer  |
|                             |  | Levee, Dike, or Floodwall   |
| OTHER FEATURES              |  | 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   |
| 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 SB-1 Soil Boring Log



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: Jackson B #17 Flowline Area #2

HOLE DESIGNATION: SB-1

PROJECT NUMBER: 11228321

DATE COMPLETED: December 8, 2021

CLIENT: EOG Resources

DRILLING METHOD: Air Rotary/Split Spoons

LOCATION: Artesia, New Mexico

FIELD PERSONNEL: C. Neligh

DRILLING CONTRACTOR: Talon Lpe

DRILLER: J. Tausch

| DEPTH<br>ft BGS | STRATIGRAPHIC DESCRIPTION & REMARKS   | DEPTH<br>BGS | SOIL BORING | SAMPLE |          |         |                     |                      |
|-----------------|---|--------------|-------------|--------|----------|---------|---------------------|----------------------|
|                 |   |              |             | NUMBER | INTERVAL | REC (%) | CHLORIDE<br>(mg/kg) | TOTAL TPH<br>(mg/kg) |
| 2               | Pre-clear   |              |             |        |          |         |                     |                      |
| 4               |   |              |             |        |          |         |                     |                      |
| 6               | FILL  | 5.00         |             |        |          |         |                     |                      |
| 8               |   |              |             |        |          |         |                     |                      |
| 10              |   |              |             |        |          |         |                     |                      |
| 12              |   |              |             |        |          |         |                     |                      |
| 14              |   |              |             |        |          |         |                     |                      |
| 16              |   |              |             |        |          |         |                     |                      |
| 18              |   |              |             |        |          |         |                     |                      |
| 20              | SP-SAND, fine to medium grained, red/brown, dry   | 20.00        |             |        |          |         |                     |                      |
| 22              |   |              |             |        |          |         |                     |                      |
| 24              |   |              |             |        |          |         |                     |                      |
| 26              | CL-CLAY, red/brown, dry   | 25.00        |             | 25'    |          |         | 1500                | 230                  |
| 28              |   |              |             |        |          |         |                     |                      |
| 30              | SC-CLAYEY SAND, fine grained, red/brown, dry  | 30.00        |             | 30'    |          |         | <61                 | <50                  |
| 32              |   |              |             |        |          |         |                     |                      |
| 34              |   |              |             |        |          |         |                     |                      |
| 36              | END OF BOREHOLE @ 35.00ft BGS   | 35.00        |             | 35'    |          |         | <61                 | <50                  |
| 38              | 0-20 feet below ground surface (bgs) was previously excavated for delineation purposes; therefore, no lithology was recorded. |              |             |        |          |         |                     |                      |

Backfilled With  
Cement Grout

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

File: I:\LOG DATABASE\8-CHAR\11-1122-11228321 JACKSON11228321-CO.GPJ Library File: GHD\_ENVIRO\_V06.GLB Report: OVERBURDEN LOG Date: 1/28/22

# Attachment C 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](http://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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 820    | 61     |      | mg/Kg | 20 | 4/27/2021 3:24:24 AM | 59643               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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 |    |   |

Page 1 of 38



## 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 78     | 60     |      | mg/Kg | 20 | 4/27/2021 3:36:49 AM  | 59643               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 420    | 60     |      | mg/Kg | 20 | 4/27/2021 3:49:13 AM  | 59643               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 540    | 60     |      | mg/Kg | 20 | 4/27/2021 4:01:38 AM  | 59643               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 1900   | 60     |      | mg/Kg | 20 | 4/27/2021 2:10:07 PM  | 59647               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 180    | 59     |      | mg/Kg | 20 | 4/27/2021 2:47:09 PM  | 59647               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 340    | 59     |      | mg/Kg | 20 | 4/27/2021 3:24:12 PM | 59647               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 3:36:33 PM | 59647               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 3:32:40 PM  | 59646               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 3:45:05 PM | 59646               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 3:57:29 PM | 59646               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 4:34:42 PM | 59660               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 4:47:07 PM  | 59660               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 4:59:31 PM  | 59660               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 82     | 59     |      | mg/Kg | 20 | 4/27/2021 5:36:45 PM  | 59660               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 5:49:09 PM | 59660               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 59     |      | mg/Kg | 20 | 4/27/2021 6:01:33 PM  | 59660               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 6:13:58 PM  | 59660               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 6:26:22 PM | 59660               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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: A2-7 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 61     |      | mg/Kg | 20 | 4/27/2021 6:38:46 PM | 59660               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 6:51:10 PM  | 59660               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    |                       | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    |                       | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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: A2-8 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 540    | 60     |      | mg/Kg | 20 | 4/27/2021 7:03:35 PM | 59660               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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: A2-8 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 7:16:00 PM | 59660               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|-----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |     |                       | Analyst: <b>VP</b>  |
| Chloride   | 160    | 60     |      | mg/Kg | 20  | 4/27/2021 7:28:24 PM  | 59660               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |     |                       | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |     |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |     |                       | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 1:53:26 PM | 59646               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 110    | 60     |      | mg/Kg | 20 | 4/27/2021 2:30:38 PM  | 59646               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    |                       | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    |                       | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 2400   | 150    |      | mg/Kg | 50 | 4/28/2021 8:09:44 AM | 59660               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 4/27/2021 8:18:01 PM | 59660               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>mb</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    |                      | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 61     |      | mg/Kg | 20 | 4/27/2021 8:30:26 PM  | 59660               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    |                       | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    |                       | Analyst: <b>JMR</b> |
| 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.

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

| Sample ID: <b>LCS-59643</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59643</b>          | RunNo: <b>76958</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/26/2021</b> | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2727669</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| 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: <b>MB-59647</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59647</b>          | RunNo: <b>76982</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/27/2021</b> | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2728804</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-59647</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59647</b>          | RunNo: <b>76982</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/27/2021</b> | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2728805</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| 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: <b>MB-59646</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59646</b>          | RunNo: <b>76981</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/27/2021</b> | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2728989</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-59646</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59646</b>          | RunNo: <b>76981</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/27/2021</b> | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2728990</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| 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: <b>MB-59660</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59660</b>          | RunNo: <b>76981</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>4/27/2021</b> | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2729022</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-59660</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59660</b>          | RunNo: <b>76981</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>4/27/2021</b> | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2729023</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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: <b>MB-59585</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |      |          |      |
|--------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>59585</b>          | RunNo: <b>76915</b>  |           |             |                     |          |           |      |          |      |
| Prep Date: <b>4/22/2021</b>    | Analysis Date: <b>4/23/2021</b> | SeqNo: <b>2726239</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>LCS-59585</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59585</b>          | RunNo: <b>76915</b>  |           |             |                     |          |           |      |          |      |
| Prep Date: <b>4/22/2021</b> | Analysis Date: <b>4/23/2021</b> | SeqNo: <b>2726240</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>MB-59616</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59616</b>          | RunNo: <b>76932</b>  |           |             |                    |          |           |      |          |      |
| Prep Date: <b>4/23/2021</b> | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2726483</b>                                      |           |             | Units: <b>%Rec</b> |          |           |      |          |      |
| 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: <b>LCS-59616</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59616</b>          | RunNo: <b>76932</b>  |           |             |                    |          |           |      |          |      |
| Prep Date: <b>4/23/2021</b> | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2726484</b>                                      |           |             | Units: <b>%Rec</b> |          |           |      |          |      |
| 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: <b>MB-59603</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                     |          |           |      |          |      |
|--------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>59603</b>          | RunNo: <b>76951</b>  |           |             |                     |          |           |      |          |      |
| Prep Date: <b>4/23/2021</b>    | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2728306</b>                                      |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>MB-59620</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59620</b>          | RunNo: <b>76960</b>  |           |             |                    |          |           |      |          |      |
| Prep Date: <b>4/25/2021</b> | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2728683</b>                                      |           |             | Units: <b>%Rec</b> |          |           |      |          |      |
| 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: <b>MB-59620</b>  | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59620</b>          |     |           | RunNo: <b>76960</b>  |      |                    |           |      |          |      |
| Prep Date: <b>4/25/2021</b> | Analysis Date: <b>4/27/2021</b> |     |           | SeqNo: <b>2728683</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| 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: <b>LCS-59620</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59620</b>          |     |           | RunNo: <b>76960</b>  |      |                    |           |      |          |      |
| Prep Date: <b>4/25/2021</b> | Analysis Date: <b>4/27/2021</b> |     |           | SeqNo: <b>2728696</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| 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: <b>MB-59638</b>  | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59638</b>          |     |           | RunNo: <b>76973</b>  |      |                    |           |      |          |      |
| Prep Date: <b>4/26/2021</b> | Analysis Date: <b>4/27/2021</b> |     |           | SeqNo: <b>2728953</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val  | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 12                              |     | 10.00     |  | 117  | 70                 | 130       |      |          |      |

| Sample ID: <b>LCS-59638</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59638</b>          |     |           | RunNo: <b>76973</b>  |      |                    |           |      |          |      |
| Prep Date: <b>4/26/2021</b> | Analysis Date: <b>4/27/2021</b> |     |           | SeqNo: <b>2728954</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| 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

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

WO#: 2104974

29-Apr-21

**Client:** EOG  
**Project:** Jackson B 17

| Sample ID: <b>mb-59580</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>59580</b>          | RunNo: <b>76957</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/22/2021</b>   | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2727499</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| 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: <b>lcs-59580</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>59580</b>          | RunNo: <b>76957</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/22/2021</b>   | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2727501</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| 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: <b>MB-59601</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59601</b>          | RunNo: <b>76957</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/23/2021</b> | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2727525</b> Units: <b>%Rec</b>          |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 1000                            |   | 1000      |             | 103  | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-59601</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59601</b>          | RunNo: <b>76957</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/23/2021</b> | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2727526</b> Units: <b>%Rec</b>          |           |             |      |          |           |      |          |      |
| 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: <b>mb-59580</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59580</b>          | RunNo: <b>76957</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/22/2021</b> | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2727548</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025  |           |             |      |          |           |      |          |      |
| Toluene                     | ND                              | 0.050  |           |             |      |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050  |           |             |      |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10   |           |             |      |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                             |  | 1.000     |             | 104  | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-59580</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59580</b>          | RunNo: <b>76957</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/22/2021</b> | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2727549</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| 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: <b>MB-59601</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59601</b>          | RunNo: <b>76957</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/23/2021</b> | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2727572</b> Units: <b>%Rec</b>     |           |             |      |          |           |      |          |      |
| 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: <b>LCS-59601</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59601</b>          | RunNo: <b>76957</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/23/2021</b> | Analysis Date: <b>4/26/2021</b> | SeqNo: <b>2727573</b> Units: <b>%Rec</b>     |           |             |      |          |           |      |          |      |
| 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: <b>Ics-59589</b> | SampType: <b>LCS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>59589</b>          | RunNo: <b>76991</b>                                     |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/22/2021</b> | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2728726</b> Units: <b>mg/Kg</b>               |           |             |      |          |           |      |          |      |
| 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: <b>mb-59589</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59589</b>          | RunNo: <b>76991</b>                                     |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/22/2021</b> | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2728727</b> Units: <b>mg/Kg</b>               |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025   |           |             |      |          |           |      |          |      |
| Toluene                     | ND                              | 0.050   |           |             |      |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050   |           |             |      |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10  |           |             |      |          |           |      |          |      |
| Surr: 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: <b>2104974-022ams</b> | SampType: <b>MS4</b>            | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |           |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>A2-8 Sur</b>       | Batch ID: <b>59589</b>          | RunNo: <b>76991</b>                                     |           |             |      |          |           |      |          |      |
| Prep Date: <b>4/22/2021</b>      | Analysis Date: <b>4/27/2021</b> | SeqNo: <b>2729168</b> Units: <b>mg/Kg</b>               |           |             |      |          |           |      |          |      |
| 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: <b>lcs-59589</b>   | SampType: <b>LCS</b>            |     |           |             | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------|---|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>59589</b>          |     |           |             | RunNo: <b>76991</b>                                   |                     |           |      |          |      |
| Prep Date: <b>4/22/2021</b>   | Analysis Date: <b>4/27/2021</b> |     |           |             | SeqNo: <b>2728735</b>                                 | Units: <b>mg/Kg</b> |           |      |          |      |
| 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: <b>mb-59589</b>    | SampType: <b>MBLK</b>           |     |           |             | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------|---|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>59589</b>          |     |           |             | RunNo: <b>76991</b>                                   |                     |           |      |          |      |
| Prep Date: <b>4/22/2021</b>   | Analysis Date: <b>4/27/2021</b> |     |           |             | SeqNo: <b>2728736</b>                                 | Units: <b>mg/Kg</b> |           |      |          |      |
| 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: <b>lcs-59609</b> | SampType: <b>LCS</b>            |     |           |             | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|-------------|---|--------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>59609</b>          |     |           |             | RunNo: <b>77031</b>                                   |                    |           |      |          |      |
| Prep Date: <b>4/23/2021</b> | Analysis Date: <b>4/28/2021</b> |     |           |             | SeqNo: <b>2730474</b>                                 | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val | %REC  | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 520                             |     | 500.0     |             | 104   | 70                 | 130       |      |          |      |

| Sample ID: <b>mb-59609</b>  | SampType: <b>MBLK</b>           |     |           |             | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|-------------|---|--------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>59609</b>          |     |           |             | RunNo: <b>77031</b>                                   |                    |           |      |          |      |
| Prep Date: <b>4/23/2021</b> | Analysis Date: <b>4/28/2021</b> |     |           |             | SeqNo: <b>2730475</b>                                 | Units: <b>%Rec</b> |           |      |          |      |
| 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



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  $6.0^{\circ}\text{C}$ ? 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 ☐

TO  
4/22/21

# of preserved bottles checked for pH: \_\_\_\_\_  
( $\leq 2$  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 Settle  
On 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:

## Analysis Request

BTEX / MTBE / TMBs (8021)

X

TPH:8015D(GRO / DRO / MRO)

X

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

(Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

X

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Pg 1 of 3



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](http://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](http://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  
**Project:** Jackson B 17 Flowline 2

**Lab Order:** 2105B49

**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            |
|--|--------|--------|------|-------|-----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |     |                       | Analyst: <b>VP</b>  |
| Chloride   | 1100   | 60     |      | mg/Kg | 20  | 6/2/2021 7:05:14 PM   | 60394               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |     |                       | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |     |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |     |                       | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |  |    |   |
|--------------------|-----|---|--|----|---|
| <b>Qualifiers:</b> |     | *   | 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:** 2105B49-002

**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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 2100   | 60     |      | mg/Kg | 20 | 6/2/2021 7:42:28 PM   | 60394               |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |        |      |       |    |                       | Analyst: <b>JMR</b> |
| 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               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |        |      |       |    |                       | Analyst: <b>JMR</b> |
| 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.

|                    |     |   |  |    |   |
|--------------------|-----|---|--|----|---|
| <b>Qualifiers:</b> |     | *   | 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 1300   | 59     |      | mg/Kg | 20 | 6/2/2021 8:44:31 PM  | 60394               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 4300   | 150    |      | mg/Kg | 50 | 6/4/2021 10:08:34 AM | 60394               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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: 2105B49-005

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            |
|--|--------|--------|------|-------|-----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |     |                      | Analyst: <b>VP</b>  |
| Chloride   | 5100   | 150    |      | mg/Kg | 50  | 6/4/2021 10:20:54 AM | 60394               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |     |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |     |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |     |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 4400   | 150    |      | mg/Kg | 50 | 6/4/2021 10:33:16 AM | 60394               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 4500   | 150    |      | mg/Kg | 50 | 6/4/2021 10:45:37 AM | 60394               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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:** 2105B49-008

**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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 370    | 60     |      | mg/Kg | 20 | 6/2/2021 9:46:34 PM  | 60394               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |  |     |   |    |   |
|--------------------|--|-----|---|----|---|
| <b>Qualifiers:</b> |  | *   | 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: 2105B49-009

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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 170    | 61     |      | mg/Kg | 20 | 6/2/2021 9:58:59 PM  | 60394               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 170    | 60     |      | mg/Kg | 20 | 6/2/2021 10:11:23 PM | 60394               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/2/2021 11:13:23 PM | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |  |    |   |
|--------------------|-----|---|--|----|---|
| <b>Qualifiers:</b> |     | *   | 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:** 2105B49-012

**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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 200    | 60     |      | mg/Kg | 20 | 6/2/2021 11:50:36 PM | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>JME</b> |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/3/2021 12:27:48 AM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 140    | 59     |      | mg/Kg | 20 | 6/3/2021 12:40:12 AM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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:** 2105B49-015

**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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 300    | 60     |      | mg/Kg | 20 | 6/3/2021 1:17:25 AM   | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 59     |      | mg/Kg | 20 | 6/3/2021 1:29:49 AM   | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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: 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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 65     | 60     |      | mg/Kg | 20 | 6/3/2021 1:42:14 AM   | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>JME</b> |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.

|                    |  |     |   |    |   |
|--------------------|--|-----|---|----|---|
| <b>Qualifiers:</b> |  | *   | 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: 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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 200    | 60     |      | mg/Kg | 20 | 6/3/2021 1:54:39 AM   | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | 700    | 60     |      | mg/Kg | 20 | 6/3/2021 2:07:03 AM   | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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

Lab Order: 2105B49

Project: Jackson B 17 Flowline 2

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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 2200   | 60     |      | mg/Kg | 20 | 6/3/2021 2:19:28 AM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>JME</b> |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |  |     |   |    |   |
|--------------------|--|-----|---|----|---|
| <b>Qualifiers:</b> |  | *   | 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 2000   | 60     |      | mg/Kg | 20 | 6/3/2021 2:31:52 AM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 61     |      | mg/Kg | 20 | 6/3/2021 2:44:16 AM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.
- 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:** 2105B49-023

**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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 59     |      | mg/Kg | 20 | 6/3/2021 2:56:41 AM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |  |    |   |
|--------------------|-----|---|--|----|---|
| <b>Qualifiers:</b> |     | *   | 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 61     |      | mg/Kg | 20 | 6/3/2021 3:09:06 AM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/3/2021 3:08:19 PM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/3/2021 3:20:43 PM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |  |     |   |    |   |
|--------------------|--|-----|---|----|---|
| <b>Qualifiers:</b> |  | *   | 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 59     |      | mg/Kg | 20 | 6/3/2021 3:33:08 PM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | 77     | 60     |      | mg/Kg | 20 | 6/3/2021 4:10:21 PM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>TOM</b> |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.
- 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:** 2105B49-029

**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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/3/2021 4:22:45 PM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>TOM</b> |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |  |     |   |    |   |
|--------------------|--|-----|---|----|---|
| <b>Qualifiers:</b> |  | *   | 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:** 2105B49-030

**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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/3/2021 4:35:10 PM  | 60407               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 59     |      | mg/Kg | 20 | 6/3/2021 9:58:05 AM  | 60416               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.
- 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:** 2105B49-032

**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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/3/2021 10:35:19 AM | 60416               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |  |    |   |
|--------------------|-----|---|--|----|---|
| <b>Qualifiers:</b> |     | *   | 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/3/2021 11:37:21 AM | 60416               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/3/2021 11:49:46 AM | 60416               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.
- 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:** 2105B49-035

**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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 6/3/2021 12:02:10 PM | 60416               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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:** 2105B49-036

**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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 61     |      | mg/Kg | 20 | 6/3/2021 12:14:35 PM | 60416               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

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

| Sample ID: <b>LCS-60394</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60394</b>         | RunNo: <b>78792</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/2/2021</b>  | Analysis Date: <b>6/2/2021</b> | SeqNo: <b>2764201</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| 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: <b>MB-60407</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>60407</b>         | RunNo: <b>78792</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/2/2021</b> | Analysis Date: <b>6/2/2021</b> | SeqNo: <b>2764232</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                   | ND                             | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-60407</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60407</b>         | RunNo: <b>78792</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/2/2021</b>  | Analysis Date: <b>6/2/2021</b> | SeqNo: <b>2764233</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| 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: <b>MB-60416</b> | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>60416</b>         | RunNo: <b>78817</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/3/2021</b> | Analysis Date: <b>6/3/2021</b> | SeqNo: <b>2765651</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                    | Result                         | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                   | ND                             | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-60416</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60416</b>         | RunNo: <b>78817</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/3/2021</b>  | Analysis Date: <b>6/3/2021</b> | SeqNo: <b>2765652</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| 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: <b>MB-60348</b>     | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>60348</b>         | RunNo: <b>78773</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/29/2021</b>    | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762223</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>LCS-60348</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60348</b>         | RunNo: <b>78773</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/29/2021</b> | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762236</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>LCS-60318</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60318</b>         | RunNo: <b>78780</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/28/2021</b> | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762508</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>LCS-60319</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60319</b>         | RunNo: <b>78780</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/28/2021</b> | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762509</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>MB-60318</b>     | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>60318</b>         | RunNo: <b>78780</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/28/2021</b>    | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762510</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>MB-60319</b>     | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|--------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>60319</b>         | RunNo: <b>78780</b>  |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/28/2021</b>    | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762511</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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: <b>LCS-60330</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60330</b>         | RunNo: <b>78780</b>  |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/28/2021</b> | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762911</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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: <b>mb-60317</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>60317</b>          | RunNo: <b>77742</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b>   | Analysis Date: <b>5/28/2021</b> | SeqNo: <b>2761104</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>lcs-60317</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>60317</b>          | RunNo: <b>77742</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b>   | Analysis Date: <b>5/28/2021</b> | SeqNo: <b>2761105</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>2105b49-003ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>A2-1 10'</b>       | Batch ID: <b>60317</b>          | RunNo: <b>77742</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b>      | Analysis Date: <b>5/28/2021</b> | SeqNo: <b>2761107</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>2105b49-003amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>A2-1 10'</b>        | Batch ID: <b>60317</b>          | RunNo: <b>77742</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b>       | Analysis Date: <b>5/28/2021</b> | SeqNo: <b>2761108</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>MB-60329</b>    | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|-------------------------------|--------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>60329</b>         | RunNo: <b>78783</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/28/2021</b>   | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762565</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>lcs-60329</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|---|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60329</b>         | RunNo: <b>78783</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/28/2021</b> | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762566</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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#: 2105B49

10-Jun-21

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

| Sample ID: <b>lcs-60329</b>   | SampType: <b>LCS</b>           |     |           |             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |           |      |          |      |
|-------------------------------|--------------------------------|-----|-----------|-------------|---|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>60329</b>         |     |           |             | RunNo: <b>78783</b>                               |                     |           |      |          |      |
| Prep Date: <b>5/28/2021</b>   | Analysis Date: <b>6/1/2021</b> |     |           |             | SeqNo: <b>2762566</b>                             | Units: <b>mg/Kg</b> |           |      |          |      |
| 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: <b>mb-60345</b>    | SampType: <b>MBLK</b>          |     |           |             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |           |      |          |      |
|-------------------------------|--------------------------------|-----|-----------|-------------|---|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>60345</b>         |     |           |             | RunNo: <b>78783</b>                               |                     |           |      |          |      |
| Prep Date: <b>5/29/2021</b>   | Analysis Date: <b>6/1/2021</b> |     |           |             | SeqNo: <b>2762589</b>                             | Units: <b>mg/Kg</b> |           |      |          |      |
| 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: <b>lcs-60345</b>   | SampType: <b>LCS</b>           |     |           |             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |           |      |          |      |
|-------------------------------|--------------------------------|-----|-----------|-------------|---|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>60345</b>         |     |           |             | RunNo: <b>78783</b>                               |                     |           |      |          |      |
| Prep Date: <b>5/29/2021</b>   | Analysis Date: <b>6/1/2021</b> |     |           |             | SeqNo: <b>2762590</b>                             | Units: <b>mg/Kg</b> |           |      |          |      |
| 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: <b>mb-60317</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>60317</b>          | RunNo: <b>77742</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b> | Analysis Date: <b>5/28/2021</b> | SeqNo: <b>2761144</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL  | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025  |           |             |                     |          |           |      |          |      |
| Toluene                     | ND                              | 0.050  |           |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050  |           |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10   |           |             |                     |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                             |  | 1.000     |             | 104                 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-60317</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60317</b>          | RunNo: <b>77742</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b> | Analysis Date: <b>5/28/2021</b> | SeqNo: <b>2761145</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>2105b49-004ams</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>A2-1 14'</b>       | Batch ID: <b>60317</b>          | RunNo: <b>77742</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b>      | Analysis Date: <b>5/28/2021</b> | SeqNo: <b>2761148</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>2105b49-004amsd</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>A2-1 14'</b>        | Batch ID: <b>60317</b>          | RunNo: <b>77742</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b>       | Analysis Date: <b>5/28/2021</b> | SeqNo: <b>2761149</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>MB-60329</b>  | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>60329</b>         | RunNo: <b>78783</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/28/2021</b> | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762613</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL  | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                             | 0.025  |           |             |                     |          |           |      |          |      |
| Toluene                     | ND                             | 0.050  |           |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                             | 0.050  |           |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                             | 0.10   |           |             |                     |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                            |  | 1.000     |             | 102                 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-60329</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60329</b>         | RunNo: <b>78783</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/28/2021</b> | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762614</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>mb-60345</b>  | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>60345</b>         | RunNo: <b>78783</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/29/2021</b> | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762632</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL  | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                             | 0.025  |           |             |                     |          |           |      |          |      |
| Toluene                     | ND                             | 0.050  |           |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                             | 0.050  |           |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                             | 0.10   |           |             |                     |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                            |  | 1.000     |             | 99.6                | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-60345</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60345</b>         | RunNo: <b>78783</b>                          |           |             |                     |          |           |      |          |      |
| Prep Date: <b>5/29/2021</b> | Analysis Date: <b>6/1/2021</b> | SeqNo: <b>2762633</b>                        |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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

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

WO#: 2105B49

10-Jun-21

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

| Sample ID: <b>lcs-60316</b> | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>60316</b>          |       | RunNo: <b>78775</b>                                     |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b> | Analysis Date: <b>5/29/2021</b> |       | SeqNo: <b>2761813</b>                                   |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>mb-60316</b>  | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>60316</b>          |       | RunNo: <b>78775</b>                                     |             |                     |          |           |      |          |      |
| Prep Date: <b>5/27/2021</b> | Analysis Date: <b>5/29/2021</b> |       | SeqNo: <b>2761815</b>                                   |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value   | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025 |   |             |                     |          |           |      |          |      |
| Toluene                     | ND                              | 0.050 |   |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050 |   |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10  |   |             |                     |          |           |      |          |      |
| Surr: 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  $6.0^{\circ}\text{C}$ ? 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      |             |         |           |           |

## Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108 Albuquerque, NM 87102

Phone #: (505) 377-4218

email or Fax#: becky.haskell@ghd.comQA/QC Package: Chase Settle @ cgsresources.com

Tom Larson @ GHD.com

Standard ☐ Level 4 (Full Validation)

Accreditation

NELAP ☐ Other ☐

EDD (Type)

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Turn-Around Time:

Standard ☒ Rush ☐

Project Name:

Jackson B #17 Flareline #2

Project #:

11228321

Project Manager:

Tom Larson

Becky Haskell

Sampler:

Zach Comine

On Ice: ☒ Yes ☐ No

Sample Temperature:

0.9-0.2 = 0.4

Container

Type and #

Preservative

Type

HEAL No.

2105349

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Turn-Around Time:

Standard ☒ Rush ☐

Project Name:

Jackson B #17 Flareline #2

Project #:

11228321

Project Manager:

Tom Larson

Becky Haskell

Sampler:

Zach Comine

On Ice: ☒ Yes ☐ No

Sample Temperature:

0.9-0.2 = 0.4

Container

Type and #

Preservative

Type

HEAL No.

2105349

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

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Sample Request ID

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Sample Request ID

Date

Turn-Around Time:

Standard ☒ Rush ☐

Project Name:

Jackson B #17 Flareline #2

Project #:

11228321

Project Manager:

Tom Larson

Becky Haskell

Sampler:

Zach Comine

On Ice: ☒ Yes ☐ No

Sample Temperature:

0.9-0.2 = 0.4

Container

Type and #

Preservative

Type

HEAL No.

2105349

Date

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Matrix

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Sample Request ID

Date

Turn-Around Time:

Standard ☒ Rush ☐

Project Name:

Jackson B #17 Flareline #2

Project #:

11228321

Project Manager:

Tom Larson

Becky Haskell

Sampler:

Zach Comine

On Ice: ☒ Yes ☐ No

Sample Temperature:

0.9-0.2 = 0.4

Container

Type and #

Preservative

Type

HEAL No.

2105349

Date

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Matrix

Sample Request ID

Date

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Sample Request ID

Date

Turn-Around Time:

Standard ☒ Rush ☐

Project Name:

Jackson B #17 Flareline #2

Project #:

11228321

Project Manager:

Tom Larson

Becky Haskell

Sampler:

Zach Comine

On Ice: ☒ Yes ☐ No

Sample Temperature:

0.9-0.2 = 0.4

Container

Type and #

Preservative

Type

HEAL No.

2105349

Date

Time

Matrix

Sample Request ID

Date

Time

Matrix

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Date

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Sample Request ID

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Sample Request ID

Date

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Matrix

Sample Request ID

Date

Time

Matrix

Sample Request ID

Date

Turn-Around Time:

Standard ☒ Rush ☐

Project Name:

Jackson B #17 Flareline #2

Project #:

11228321

Project Manager:

Tom Larson

Becky Haskell

Sampler:

Zach Comine

On Ice: ☒ Yes ☐ No

Sample Temperature:

0.9-0.2 = 0.4

Container

Type and #

Preservative

Type

HEAL No.

2105349

Date

Time

Matrix

Sample Request ID

Date

Time

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Sample Request ID

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Sample Request ID

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Sample Request ID

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Sample Request ID

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Sample Request ID

Date

Turn-Around Time:

Standard ☒ Rush ☐

Project Name:

Jackson B #17 Flareline #2

Project #:

11228321

Project Manager:

Tom Larson

Becky Haskell

Sampler:

Zach Comine

On Ice: ☒ Yes ☐ No

Sample Temperature:

0.9-0.2 = 0.4

Container

Type and #

Preservative

Type

HEAL No.

2105349

Date

Time

Matrix

Sample Request ID

Date

Time

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Date

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Matrix

Sample Request ID

Date

Turn-Around Time:

Standard ☒ Rush ☐

Project Name:

Jackson B #17 Flareline #2

Project #:

11228321

Project Manager:

Tom Larson

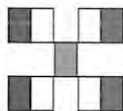
Becky Haskell

Sampler:

Zach Comine



2.73



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

|  |               |
|--|---------------|
| BTEx + MTBE + TMB's (8021)   |               |
| BTEx + MTBE + TPH (Gas only)   |               |
| <del>TPH 8015B (GRO / DRO / MRO)</del>   |               |
| TPH (Method 418.1)   |               |
| EDB (Method 504.1)   |               |
| PAH's (8310 or 8270 SIMS)  |               |
| RCRA 8 Metals  |               |
| Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) |               |
| 8081 Pesticides / 8082 PCB's   |               |
| 8260B (VOA)  |               |
| 8270 (Semi-VOA)  | 26.02 M/L 300 |
|  |               |
|  |               |
|  |               |
| Air Bubbles (Y or N)   |               |

| Chain-of-Custody Record  |             |   |                 | Turn-Around Time:   |                      |
|--|-------------|---|-----------------|---|----------------------|
| Client: <u>GHD</u>   |             | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <u>5 day</u> |                 |   |                      |
| Mailing Address:   |             |   |                 | Project Name: <u>Jackson B #17 Finalize #2</u>                              |                      |
| <u>32429 Main St Suite 108 Artesia NM 88210</u>                                      |             |   |                 | Project #: <u>11228321</u>  |                      |
| Phone #: <u>(505) 377-4218</u>   |             |   |                 | Project Manager: <u>Becky Haskell</u>                                       |                      |
| email or Fax#: <u>Tom.Larson@GHD.com</u>   |             |   |                 | Tom Larson  |                      |
| QA/QC Package: <u>Chase - Seattle@resources.com</u>                                  |             |   |                 | Sampler: <u>Zach Comins</u>   |                      |
| <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) |             |   |                 | On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                      |
| Accreditation  |             |   |                 | Sample Temperature: <u>0.6-0.2 = 0.4</u>                                    |                      |
| <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____                  |             |   |                 | HEAL No. <u>2105344</u>   |                      |
| <input type="checkbox"/> EDD (Type) _____  |             |   |                 | Container Type and #  |                      |
| Date   |             | Time  | Matrix          | Preservative Type   |                      |
| <u>05/22/21</u>  | <u>1340</u> | <u>S</u>  | <u>A2-S 4'</u>  | <u>Just</u>   | <u>0.9-0.2 = 0.7</u> |
|  | <u>1345</u> |   | <u>A2-S 6'</u>  |   | <u>013</u>           |
|  | <u>1350</u> |   | <u>A2-S 8'</u>  |   | <u>014</u>           |
|  | <u>1400</u> |   | <u>A2-7 10'</u> |   | <u>015</u>           |
|  | <u>1415</u> |   | <u>A2-6 4'</u>  |   | <u>016</u>           |
|  | <u>1420</u> |   | <u>A2-6 6'</u>  |   | <u>017</u>           |
|  | <u>1425</u> |   | <u>A2-6 8'</u>  |   | <u>018</u>           |
|  | <u>1430</u> |   | <u>A2-6 10'</u> |   | <u>019</u>           |
|  | <u>1435</u> |   | <u>A2-6 12'</u> |   | <u>020</u>           |
|  | <u>1440</u> |   | <u>A2-8 4'</u>  |   | <u>021</u>           |
|  | <u>1500</u> |   | <u>TP1-S</u>    |   | <u>022</u>           |
|  | <u>1505</u> |   | <u>TP1-2</u>    |   | <u>023</u>           |
|  |             |   |                 |   | <u>024</u>           |
| Date:  | Time:       | Relinquished by: <u>Zach Comins / jzld</u>  |                 | Date  | Time                 |
| <u>05/26/21</u>  | <u>1200</u> | Relinquished by: <u>Zach Comins / jzld</u>  |                 | <u>5/26/21</u>  | <u>1200</u>          |
| Date:  | Time:       | Relinquished by: <u>Tom Larson / jzld</u>   |                 | Date  | Time                 |
| <u>5/26/21</u>   | <u>1900</u> | Relinquished by: <u>Tom Larson / jzld</u>   |                 | <u>5/26/21</u>  | <u>1900</u>          |

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](http://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](http://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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 7/2/2021 9:45:00 PM   | 61106               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>JME</b> |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                       | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 7/2/2021 10:47:02 PM  | 61106               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>JME</b> |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| 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.
- 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: 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 61     |      | mg/Kg | 20 | 7/2/2021 10:59:27 PM | 61106               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 7/2/2021 11:11:52 PM | 61106               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 7/2/2021 11:24:17 PM | 61106               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.
- 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: 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 7/2/2021 11:36:42 PM | 61106               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.

|                    |     |   |    |   |
|--------------------|-----|---|----|---|
| <b>Qualifiers:</b> | *   | 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 7/2/2021 11:49:06 PM | 61106               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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            |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                      | Analyst: <b>VP</b>  |
| Chloride   | ND     | 60     |      | mg/Kg | 20 | 7/3/2021 12:01:31 AM | 61106               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>SB</b>  |
| 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               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| 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.
- 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, Inc.

Analytical Report

Lab Order: 2106E74

Date Reported: 7/8/2021

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 |    |   |
|             |     |   |    |   |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2106E74

08-Jul-21

Client: GHD Midland

Project: Jackson B 17 Flowline 2

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

|                             |                                |   |                     |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: <b>LCS-61106</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>61106</b>         | RunNo: <b>79537</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>7/2/2021</b>  | Analysis Date: <b>7/2/2021</b> | SeqNo: <b>2798060</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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#: 2106E74

08-Jul-21

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

| Sample ID: <b>MB-61007</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>61007</b>          | RunNo: <b>79496</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b>    | Analysis Date: <b>6/30/2021</b> | SeqNo: <b>2794893</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>LCS-61007</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61007</b>          | RunNo: <b>79496</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b> | Analysis Date: <b>6/30/2021</b> | SeqNo: <b>2794895</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>2106E74-003AMS</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>HA5-S</b>          | Batch ID: <b>61039</b>         | RunNo: <b>79583</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/30/2021</b>      | Analysis Date: <b>7/3/2021</b> | SeqNo: <b>2798899</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>2106E74-003AMSD</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>HA5-S</b>           | Batch ID: <b>61039</b>         | RunNo: <b>79583</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/30/2021</b>       | Analysis Date: <b>7/3/2021</b> | SeqNo: <b>2798901</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>MB-61039</b>     | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>61039</b>         | RunNo: <b>79583</b>  |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/30/2021</b>    | Analysis Date: <b>7/3/2021</b> | SeqNo: <b>2798903</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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: <b>LCS-61039</b> | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|-----------------------------|--------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61039</b>         |     | RunNo: <b>79583</b>  |             |                     |          |           |      |          |      |
| Prep Date: <b>6/30/2021</b> | Analysis Date: <b>7/3/2021</b> |     | SeqNo: <b>2798904</b>                                      |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>MB-61070</b> | SampType: <b>MBLK</b>          |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                    |          |           |      |          |      |
|----------------------------|--------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>61070</b>         |     | RunNo: <b>79583</b>  |             |                    |          |           |      |          |      |
| Prep Date: <b>7/1/2021</b> | Analysis Date: <b>7/4/2021</b> |     | SeqNo: <b>2798932</b>                                      |             | Units: <b>%Rec</b> |          |           |      |          |      |
| 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: <b>LCS-61070</b> | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                    |          |           |      |          |      |
|-----------------------------|--------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61070</b>         |     | RunNo: <b>79583</b>  |             |                    |          |           |      |          |      |
| Prep Date: <b>7/1/2021</b>  | Analysis Date: <b>7/4/2021</b> |     | SeqNo: <b>2798933</b>                                      |             | Units: <b>%Rec</b> |          |           |      |          |      |
| 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: <b>mb-61005</b>    | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>61005</b>         | RunNo: <b>79564</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b>   | Analysis Date: <b>7/2/2021</b> | SeqNo: <b>2797787</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| 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: <b>lcs-61005</b>   | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>61005</b>         | RunNo: <b>79564</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b>   | Analysis Date: <b>7/2/2021</b> | SeqNo: <b>2797788</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| 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: <b>mb-61022</b>    | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>61022</b>         | RunNo: <b>79564</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b>   | Analysis Date: <b>7/3/2021</b> | SeqNo: <b>2797811</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| 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: <b>lcs-61022</b>   | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>61022</b>         | RunNo: <b>79564</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b>   | Analysis Date: <b>7/2/2021</b> | SeqNo: <b>2797812</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| 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: <b>2106e74-003ams</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>HA5-S</b>          | Batch ID: <b>61022</b>         | RunNo: <b>79564</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b>      | Analysis Date: <b>7/3/2021</b> | SeqNo: <b>2797814</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| 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: <b>2106e74-003amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>HA5-S</b>           | Batch ID: <b>61022</b>         | RunNo: <b>79564</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b>       | Analysis Date: <b>7/3/2021</b> | SeqNo: <b>2797815</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| 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: <b>mb-61005</b>  | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>61005</b>         | RunNo: <b>79564</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b> | Analysis Date: <b>7/2/2021</b> | SeqNo: <b>2797845</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                             | 0.025  |           |             |      |          |           |      |          |      |
| Toluene                     | ND                             | 0.050  |           |             |      |          |           |      |          |      |
| Ethylbenzene                | ND                             | 0.050  |           |             |      |          |           |      |          |      |
| Xylenes, Total              | ND                             | 0.10   |           |             |      |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                            |  | 1.000     |             | 101  | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-61005</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61005</b>         | RunNo: <b>79564</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b> | Analysis Date: <b>7/2/2021</b> | SeqNo: <b>2797846</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| 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: <b>mb-61022</b>  | SampType: <b>MBLK</b>          | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>61022</b>         | RunNo: <b>79564</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b> | Analysis Date: <b>7/3/2021</b> | SeqNo: <b>2797869</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| Analyte                     | Result                         | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                             | 0.025  |           |             |      |          |           |      |          |      |
| Toluene                     | ND                             | 0.050  |           |             |      |          |           |      |          |      |
| Ethylbenzene                | ND                             | 0.050  |           |             |      |          |           |      |          |      |
| Xylenes, Total              | ND                             | 0.10   |           |             |      |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                            |  | 1.000     |             | 100  | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-61022</b> | SampType: <b>LCS</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|--------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>61022</b>         | RunNo: <b>79564</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b> | Analysis Date: <b>7/2/2021</b> | SeqNo: <b>2797870</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| 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: <b>2106e74-004ams</b> | SampType: <b>MS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>HA5-2</b>          | Batch ID: <b>61022</b>         | RunNo: <b>79564</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b>      | Analysis Date: <b>7/3/2021</b> | SeqNo: <b>2797873</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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: <b>2106e74-004amsd</b> | SampType: <b>MSD</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|--------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>HA5-2</b>           | Batch ID: <b>61022</b>         | RunNo: <b>79564</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>6/29/2021</b>       | Analysis Date: <b>7/3/2021</b> | SeqNo: <b>2797874</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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  $6.0^{\circ}\text{C}$ ? 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:

( $\leq 2$  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      |             |         |           |           |







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

December 21, 2021

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

RE: Jackson B 17

OrderNo.: 2112743

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/10/2021 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](http://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 2112743

Date Reported: 12/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: S-11228321-120821-CN-A2-1-2

Project: Jackson B 17

Collection Date: 12/8/2021 11:00:00 AM

Lab ID: 2112743-001

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

| Analyses   | Result | RL     | Qual | Units | DF | Date Analyzed          | Batch               |
|--|--------|--------|------|-------|----|------------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                        | Analyst: <b>LRN</b> |
| Chloride   | 1500   | 60     |      | mg/Kg | 20 | 12/16/2021 10:00:55 PM | 64573               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                        | Analyst: <b>BRM</b> |
| Diesel Range Organics (DRO)                      | 120    | 9.5    |      | mg/Kg | 1  | 12/15/2021 1:36:16 PM  | 64497               |
| Motor Oil Range Organics (MRO)                   | 110    | 48     |      | mg/Kg | 1  | 12/15/2021 1:36:16 PM  | 64497               |
| Surr: DNOP                                       | 111    | 70-130 |      | %Rec  | 1  | 12/15/2021 1:36:16 PM  | 64497               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                        | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | ND     | 24     |      | mg/Kg | 5  | 12/13/2021 1:21:02 PM  | 64437               |
| Surr: BFB  | 103    | 70-130 |      | %Rec  | 5  | 12/13/2021 1:21:02 PM  | 64437               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                        | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.12   |      | mg/Kg | 5  | 12/13/2021 1:21:02 PM  | 64437               |
| Toluene  | ND     | 0.24   |      | mg/Kg | 5  | 12/13/2021 1:21:02 PM  | 64437               |
| Ethylbenzene                                     | ND     | 0.24   |      | mg/Kg | 5  | 12/13/2021 1:21:02 PM  | 64437               |
| Xylenes, Total                                   | ND     | 0.48   |      | mg/Kg | 5  | 12/13/2021 1:21:02 PM  | 64437               |
| Surr: 4-Bromofluorobenzene                       | 107    | 70-130 |      | %Rec  | 5  | 12/13/2021 1:21:02 PM  | 64437               |

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

|                    |     |  |    |   |
|--------------------|-----|--|----|---|
| <b>Qualifiers:</b> | *   | 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 interference |    |   |

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## Analytical Report

Lab Order 2112743

Date Reported: 12/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: S-11228321-120821-CN-A2-1-3

Project: Jackson B 17

Collection Date: 12/8/2021 11:20:00 AM

Lab ID: 2112743-002

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

| Analyses   | Result | RL     | Qual | Units | DF | Date Analyzed          | Batch               |
|--|--------|--------|------|-------|----|------------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                        | Analyst: <b>LRN</b> |
| Chloride   | 100    | 61     |      | mg/Kg | 20 | 12/16/2021 10:13:15 PM | 64573               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                        | Analyst: <b>BRM</b> |
| Diesel Range Organics (DRO)                      | ND     | 10     |      | mg/Kg | 1  | 12/15/2021 10:23:59 AM | 64497               |
| Motor Oil Range Organics (MRO)                   | ND     | 50     |      | mg/Kg | 1  | 12/15/2021 10:23:59 AM | 64497               |
| Surr: DNOP                                       | 97.4   | 70-130 |      | %Rec  | 1  | 12/15/2021 10:23:59 AM | 64497               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                        | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 12/13/2021 1:44:38 PM  | 64437               |
| Surr: BFB  | 103    | 70-130 |      | %Rec  | 1  | 12/13/2021 1:44:38 PM  | 64437               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                        | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.023  |      | mg/Kg | 1  | 12/13/2021 1:44:38 PM  | 64437               |
| Toluene  | ND     | 0.047  |      | mg/Kg | 1  | 12/13/2021 1:44:38 PM  | 64437               |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 12/13/2021 1:44:38 PM  | 64437               |
| Xylenes, Total                                   | ND     | 0.094  |      | mg/Kg | 1  | 12/13/2021 1:44:38 PM  | 64437               |
| Surr: 4-Bromofluorobenzene                       | 108    | 70-130 |      | %Rec  | 1  | 12/13/2021 1:44:38 PM  | 64437               |

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

|                    |     |  |    |   |
|--------------------|-----|--|----|---|
| <b>Qualifiers:</b> | *   | 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 interference |    |   |

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## Analytical Report

Lab Order 2112743

Date Reported: 12/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: S-11228321-120821-CN-A2-1-3

Project: Jackson B 17

Collection Date: 12/8/2021 11:40:00 AM

Lab ID: 2112743-003

Matrix: SOIL

Received Date: 12/10/2021 7:20:00 AM

| Analyses   | Result | RL     | Qual | Units | DF | Date Analyzed          | Batch               |
|--|--------|--------|------|-------|----|------------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    |                        | Analyst: <b>LRN</b> |
| Chloride   | ND     | 61     |      | mg/Kg | 20 | 12/16/2021 10:25:35 PM | 64573               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                        | Analyst: <b>BRM</b> |
| Diesel Range Organics (DRO)                      | ND     | 10     |      | mg/Kg | 1  | 12/15/2021 10:34:29 AM | 64497               |
| Motor Oil Range Organics (MRO)                   | ND     | 50     |      | mg/Kg | 1  | 12/15/2021 10:34:29 AM | 64497               |
| Surr: DNOP                                       | 111    | 70-130 |      | %Rec  | 1  | 12/15/2021 10:34:29 AM | 64497               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    |                        | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.6    |      | mg/Kg | 1  | 12/13/2021 2:07:57 PM  | 64437               |
| Surr: BFB  | 105    | 70-130 |      | %Rec  | 1  | 12/13/2021 2:07:57 PM  | 64437               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    |                        | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.023  |      | mg/Kg | 1  | 12/13/2021 2:07:57 PM  | 64437               |
| Toluene  | ND     | 0.046  |      | mg/Kg | 1  | 12/13/2021 2:07:57 PM  | 64437               |
| Ethylbenzene                                     | ND     | 0.046  |      | mg/Kg | 1  | 12/13/2021 2:07:57 PM  | 64437               |
| Xylenes, Total                                   | ND     | 0.092  |      | mg/Kg | 1  | 12/13/2021 2:07:57 PM  | 64437               |
| Surr: 4-Bromofluorobenzene                       | 110    | 70-130 |      | %Rec  | 1  | 12/13/2021 2:07:57 PM  | 64437               |

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

|                    |     |  |    |   |
|--------------------|-----|--|----|---|
| <b>Qualifiers:</b> | *   | 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 interference |    |   |

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

WO#: 2112743

21-Dec-21

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

| Sample ID: <b>MB-64573</b>   | SampType: <b>mblk</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|------------------------------|----------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>64573</b>           | RunNo: <b>84617</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/16/2021</b> | Analysis Date: <b>12/16/2021</b> | SeqNo: <b>2974432</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                      | Result                           | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                     | ND                               | 1.5                                       |                     |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-64573</b>  | SampType: <b>lcs</b>             | TestCode: <b>EPA Method 300.0: Anions</b> |                     |             |      |          |           |      |          |      |
|------------------------------|----------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>64573</b>           | RunNo: <b>84617</b>                       |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/16/2021</b> | Analysis Date: <b>12/16/2021</b> | SeqNo: <b>2974433</b>                     | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                      | Result                           | PQL                                       | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                     | 14                               | 1.5                                       | 15.00               | 0           | 94.4 | 90       | 110       |      |          |      |

**Qualifiers:**

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

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

Page 4 of 7

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

WO#: 2112743

21-Dec-21

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

| Sample ID: <b>LCS-64497</b>  | SampType: <b>LCS</b>             |     |           |             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |           |      |          |      |
|------------------------------|----------------------------------|-----|-----------|-------------|--|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>64497</b>           |     |           |             | RunNo: <b>84537</b>  |                     |           |      |          |      |
| Prep Date: <b>12/14/2021</b> | Analysis Date: <b>12/15/2021</b> |     |           |             | SeqNo: <b>2970917</b>                                      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                      | Result                           | PQL | SPK value | SPK Ref Val | %REC   | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)  | 50                               | 10  | 50.00     | 0           | 99.0   | 68.9                | 135       |      |          |      |
| Surr: DNOP                   | 4.6                              |     | 5.000     |             | 92.8   | 70                  | 130       |      |          |      |

| Sample ID: <b>MB-64497</b>     | SampType: <b>MBLK</b>            |     |           |             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |           |      |          |      |
|--------------------------------|----------------------------------|-----|-----------|-------------|--|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>64497</b>           |     |           |             | RunNo: <b>84537</b>  |                     |           |      |          |      |
| Prep Date: <b>12/14/2021</b>   | Analysis Date: <b>12/15/2021</b> |     |           |             | SeqNo: <b>2970919</b>                                      | Units: <b>mg/Kg</b> |           |      |          |      |
| 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     |             | 98.6   | 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 interference

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#: 2112743

21-Dec-21

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

| Sample ID: <b>mb-64437</b>    | SampType: <b>MBLK</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|----------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>64437</b>           |     | RunNo: <b>84489</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/10/2021</b>  | Analysis Date: <b>12/13/2021</b> |     | SeqNo: <b>2969095</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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: <b>lcs-64437</b>   | SampType: <b>LCS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|----------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>64437</b>           |     | RunNo: <b>84489</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>12/10/2021</b>  | Analysis Date: <b>12/13/2021</b> |     | SeqNo: <b>2969096</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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  |             | 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 interference

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#: 2112743

21-Dec-21

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

| Sample ID: <b>mb-64437</b>   | SampType: <b>MBLK</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|------------------------------|----------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>        | Batch ID: <b>64437</b>           | RunNo: <b>84489</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/10/2021</b> | Analysis Date: <b>12/13/2021</b> | SeqNo: <b>2969138</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                      | Result                           | PQL  | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                      | ND                               | 0.025  |                     |             |      |          |           |      |          |      |
| Toluene                      | ND                               | 0.050  |                     |             |      |          |           |      |          |      |
| Ethylbenzene                 | ND                               | 0.050  |                     |             |      |          |           |      |          |      |
| Xylenes, Total               | ND                               | 0.10   |                     |             |      |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene   | 1.1                              |  | 1.000               |             | 106  | 70       | 130       |      |          |      |

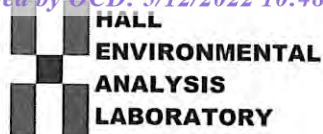
| Sample ID: <b>LCS-64437</b>  | SampType: <b>LCS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |             |      |          |           |      |          |      |
|------------------------------|----------------------------------|--|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>       | Batch ID: <b>64437</b>           | RunNo: <b>84489</b>                          |                     |             |      |          |           |      |          |      |
| Prep Date: <b>12/10/2021</b> | Analysis Date: <b>12/13/2021</b> | SeqNo: <b>2969139</b>                        | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                      | Result                           | PQL  | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                      | 0.93                             | 0.025  | 1.000               | 0           | 93.3 | 80       | 120       |      |          |      |
| Toluene                      | 0.94                             | 0.050  | 1.000               | 0           | 93.5 | 80       | 120       |      |          |      |
| Ethylbenzene                 | 0.94                             | 0.050  | 1.000               | 0           | 93.9 | 80       | 120       |      |          |      |
| Xylenes, Total               | 2.8                              | 0.10   | 3.000               | 0           | 92.8 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene   | 1.1                              |  | 1.000               |             | 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 interference

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 Midland

Work Order Number: 2112743

RcptNo: 1

Received By: Cheyenne Cason 12/10/2021 7:20:00 AM

Completed By: Sean Livingston 12/10/2021 9:01:27 AM

Reviewed By: *Jan 12/10/21*

*Chad*  
*Sean Livingston*

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  $6.0^{\circ}\text{C}$ ? 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: *Chad Livingston*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         | 5.3                     | Good      |             |         |           |           |



|                |                |
|----------------|----------------|
| 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: Chase Settle Date: 05/12/2022  
email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: Robert Hamlet Date: 8/25/2022

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

Signature: Robert Hamlet Date: 8/25/2022



**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 106348

**CONDITIONS**

|  |   |
|--|---|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377  |
|  | Action Number:<br>106348                                  |
|  | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| rhamlet    | The Remediation Plan is Conditionally Approved. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. 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. Confirmation samples should be collected every 200 ft2. 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. The work will need to occur in 90 days after the work plan has been approved. | 8/25/2022      |