

Incident ID	nAPP2110638434
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Amber Griffin

Title: Rep Safety & Environmental Sr

Signature: Amber Griffin

Date: 11/21/2022

email: Amber\_Griffin@eogresources.com

Telephone: 575-748-1471

**OCD Only**

Received by: Robert Hamlet

Date: 2/22/2023

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

Closure Approved by: Robert Hamlet

Date: 2/22/2023

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced

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

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## 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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<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

## 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. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <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:	
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>  Signature: <u></u>  email: <u>Chase_Settle@eogresources.com</u>	Title: <u>Rep Safety &amp; Environmental Sr</u>  Date: <u>04/16/2021</u>  Telephone: <u>575-748-1471</u>
<b><u>OCD Only</u></b>	
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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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: \_\_\_\_\_

Incident ID	nAPP2110638434
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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.

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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: \_\_\_\_\_

Incident ID	nAPP2110638434
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## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Amber Griffin

Title: Rep Safety & Environmental Sr

Signature: Amber Griffin

Date: 11/21/2022

email: Amber\_Griffin@eogresources.com

Telephone: 575-748-1471

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

701 Tradewinds Boulevard, Suite C  
Midland, Texas 79706  
Tel. 432.685.3898  
www.ntglobal.com



**NTG**  
ENVIRONMENTAL

November 21, 2022

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

Re: **Site Closure Report**  
**Jackson B #17 Flowline Area #2**  
**EOG Resources Inc.**  
**Incident ID: nAPP2110638434**  
**O-01-17S-30E, Eddy County, New Mexico**

To whom it may concern:

## 1. Introduction

New Tech Global Environmental, LLC (NTGE), on behalf of EOG Resources (EOG), submits this Site Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This report provides documentation of delineation, sampling, remedial activities, and analyses that was conducted 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). Figures 1 and 2 depict the Site location. The EOG flowline area and other site details are depicted on Figure 3.

## 2. Background

A C-141, Release Notification, for this release was submitted to the NMOCD on April 16, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities 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.

GHD Services, Inc. (GHD) prepared an Amended Site Characterization and Remediation Work Plan dated May 10, 2022 which was submitted to the NMOCD for approval. The Amended Site Characterization and Remediation Work Plan was approved by the NMOCD on August 25, 2022. The Release Notification, Site Assessment/Characterization, Remediation Plan, Closure 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 I, 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 of low karst potential 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 D. The soil Closure Criteria are listed below:

**General Site Characterization and Groundwater:**

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

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

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

## 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 (Hall) 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 Hall 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 Hall 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 Hall 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.

## **5. Excavation, Waste Management and Confirmation Sampling**

On September 6, 2022, NTGE and Standard and Supply (SS) mobilized to the site to begin excavation activities. Soils within the first four (4) feet containing TPH and chloride exceedances of Table I Closure Criteria for 19.15.29.13 for restoration were excavated. On September 14, 2022, seven (7) composite confirmation bottom hole samples (BH-1 through BH-7), and seven (7) composite confirmation sidewall samples (SW-1 through SW-7) were collected and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015M, and chloride by EPA Method SM4500Cl-B. Analytical results indicated one (1) bottom hole sample (BH-6) and four (4) sidewall samples (SW-2, SW-3, SW-4, and SW-6) exhibited TPH and/or chloride concentrations above Table I Closure Criteria required by 19.15.29.12 and 19.15.29.13.

The areas represented by SW-2, SW-3, and SW-6 were further excavated due to the exceedances discussed above. On September 16, 2022, two (2) bottom hole composite confirmation samples (BH-8, BH-9) and four (4) sidewall composite confirmation samples (SW-2, SW-3, SW-6, and SW-8) were collected and submitted to Hall in Albuquerque, New Mexico and analyzed for BTEX by 8021B, TPH by Method 8015D, and chloride by EPA Method 300. Analytical results indicated one (1) confirmation sample (SW-8) exhibited TPH exceedances above Table I Closure Criteria.

Between September 19 and September 30, 2022, excavation activities continued. The area represented by BH-6 was further excavated to ten (10) feet below ground surface and the sidewalls represented by SW-4 and SW-8 were also further excavated. On September 20, 2022 through September 30, 2022, fifteen (15) bottom hole confirmation samples (BH-6 and BH-10 through BH-21) and sixteen (16) sidewall composite confirmation samples (SW-4 and SW-8 through SW-22) were collected and submitted to Hall in Albuquerque, New Mexico or Cardinal in Hobbs, New Mexico and analyzed for BTEX, TPH, and chloride.

Analytical results indicated seven (7) confirmation samples exhibited TPH and/or BTEX concentrations above Table I Closure Criteria: SW-4, SW-8, SW-9, and SW-18 through SW-21). The area represented by SW-9, collected on September 20, 2022, was further excavated and another composite confirmation sample was collected on September 30, 2022. Confirmation sample SW-9 exhibited concentrations below Table I Closure Criteria.

NTGE and SS returned to the Site on October 3, 2022, to continue excavation activities. Between October 19 and November 4, 2022, ten (10) bottom hole confirmation samples (BH-22 through BH-31) and twenty-seven (27) sidewall composite confirmation samples (SW-4A, SW-8S, SW-21A and SW-22 through SW-45) were collected and submitted to Cardinal in Hobbs, Mexico and analyzed for BTEX, TPH, and chloride. Included, were the areas represented by SW-18 through SW-20. These areas were further excavated to the south and east. New composite confirmation samples were collected from these areas, SW-25, SW-26 and SW-31 through SW-35. Final excavation depths ranged from four (4) to twenty-five (25) feet below grade. Analytical results of final composite confirmation samples indicated no exceedances above Table I Closure Criteria.

Figure 3 depicts the locations of the confirmation samples. Analytical results are provided in Table 1, and in the Laboratory Analytical Reports provided in Attachment C. A photographic log is provided as Attachment A and Confirmation Sampling Notifications are provided as Attachment B.

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM 64, Highway 62/180 East, Carlsbad, NM, 88220. Approximately 2,175.78 tons of impacted soil were disposed at Lea Land, LLC, the waste manifest from September 19 through November 7, 2022, are available upon request and aren't included in this report due to the size of the file. A Daily Disposal Summary is provided as Table 2.

## 6. nAPP2110638434 Closure Request

The excavation will be backfilled with non-impacted material at a future date. Site characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOCDC guidance and regulations. Based upon supporting documentation provided in this report, NTGE, on behalf of EOG, respectfully requests closure and no further regulatory actions for nAPP2110638434.

If you have any questions or comments concerning this Site Closure Report, please do not hesitate to contact our Midland office at (432) 766-1918.

Sincerely,

NTG Environmental



Becky Haskell  
Senior Project Manager

Encl.    Figure 1 – Site Location Map  
          Figure 2 – Area Map  
          Figure 3 – Confirmation Sample Location Map  
          Table 1 – Summary of Soil Analytical Data – Confirmation Samples

Table 2 – Daily Soil Disposal Summary

Attachment A – Photographic Log

Attachment B – Confirmation Sampling Notifications

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

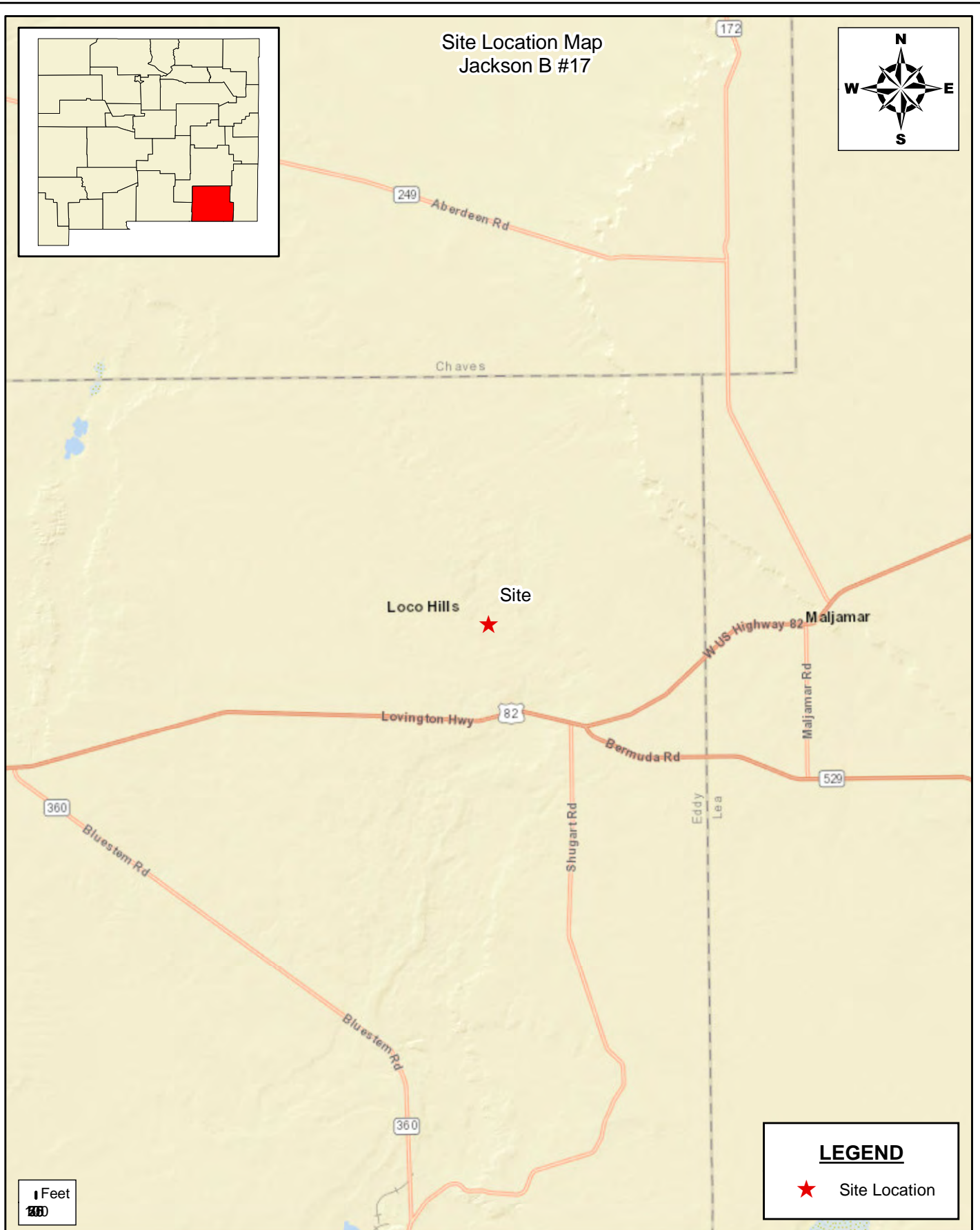
cc: Chase Settle

# FIGURES

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Document Path: P:\2022 PROJECTS\EOG\IRSC\226256 Jackson B #17 Flowline Area #27 - Figures\GIS\Figure\_1\_Site Location Map.mxd



**SITE LOCATION MAP**  
Jackson B #17  
EOG RESOURCES LLC.  
EDDY COUNTY, NEW MEXICO  
32.858101, -103.92596

SCALE: As Shown

Date: 11/15/2022

PROJECT #: 226256



**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:

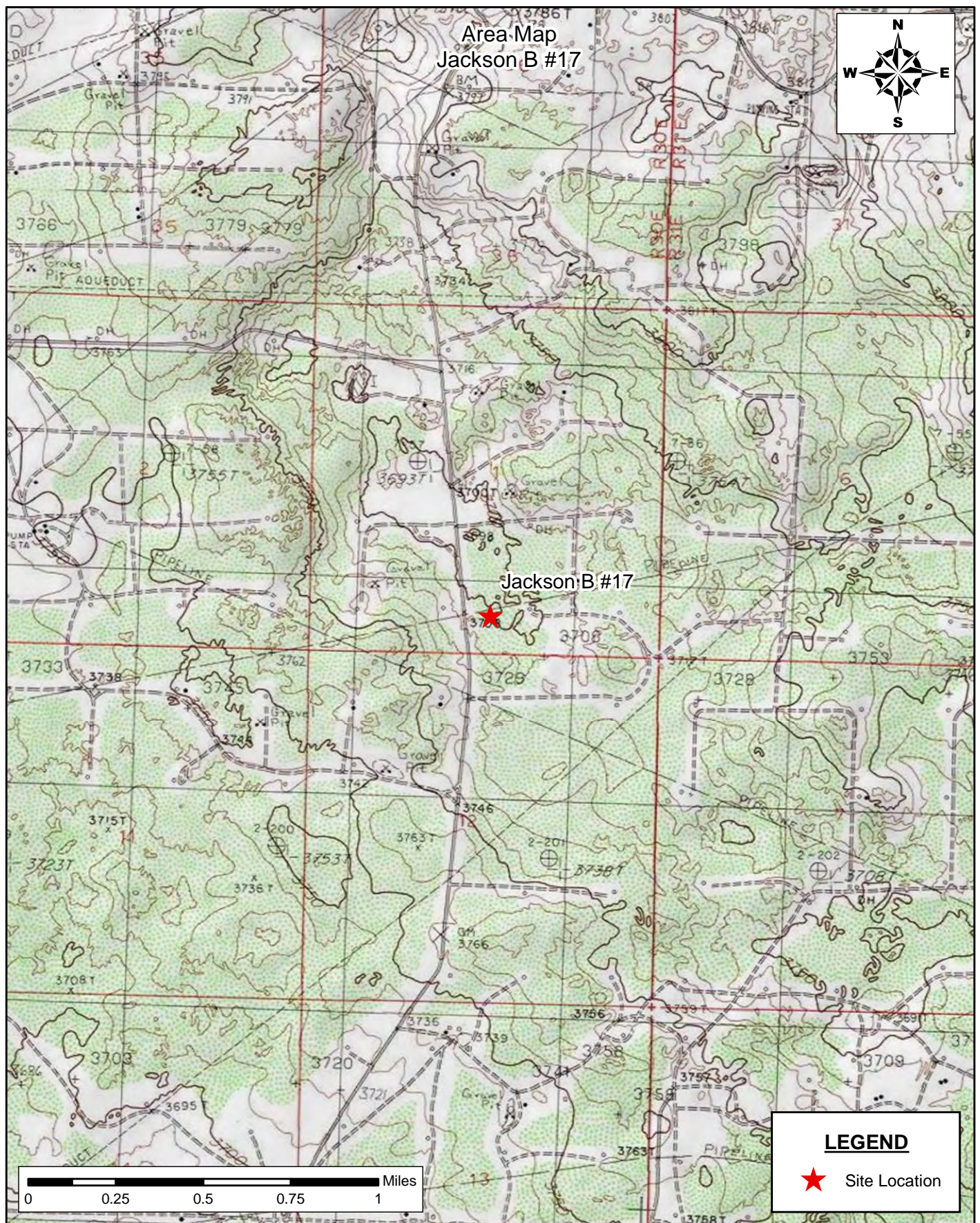
**FIGURE 1**

SHEET NUMBER:

**1 of 1**



Document Path: P:\2022 PROJECTS\EOG\RSC\226256 Jackson B #17 Flowline Area #27 - Figures\GIS\Figure\_2\_Area Map.mxd



**Area Map**  
EOG RESOURCES, LLC  
Jackson B #17  
EDDY COUNTY, NEW MEXICO  
32.858101, -103.92596

**New Tech Global Environmental**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntglobal.com



**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

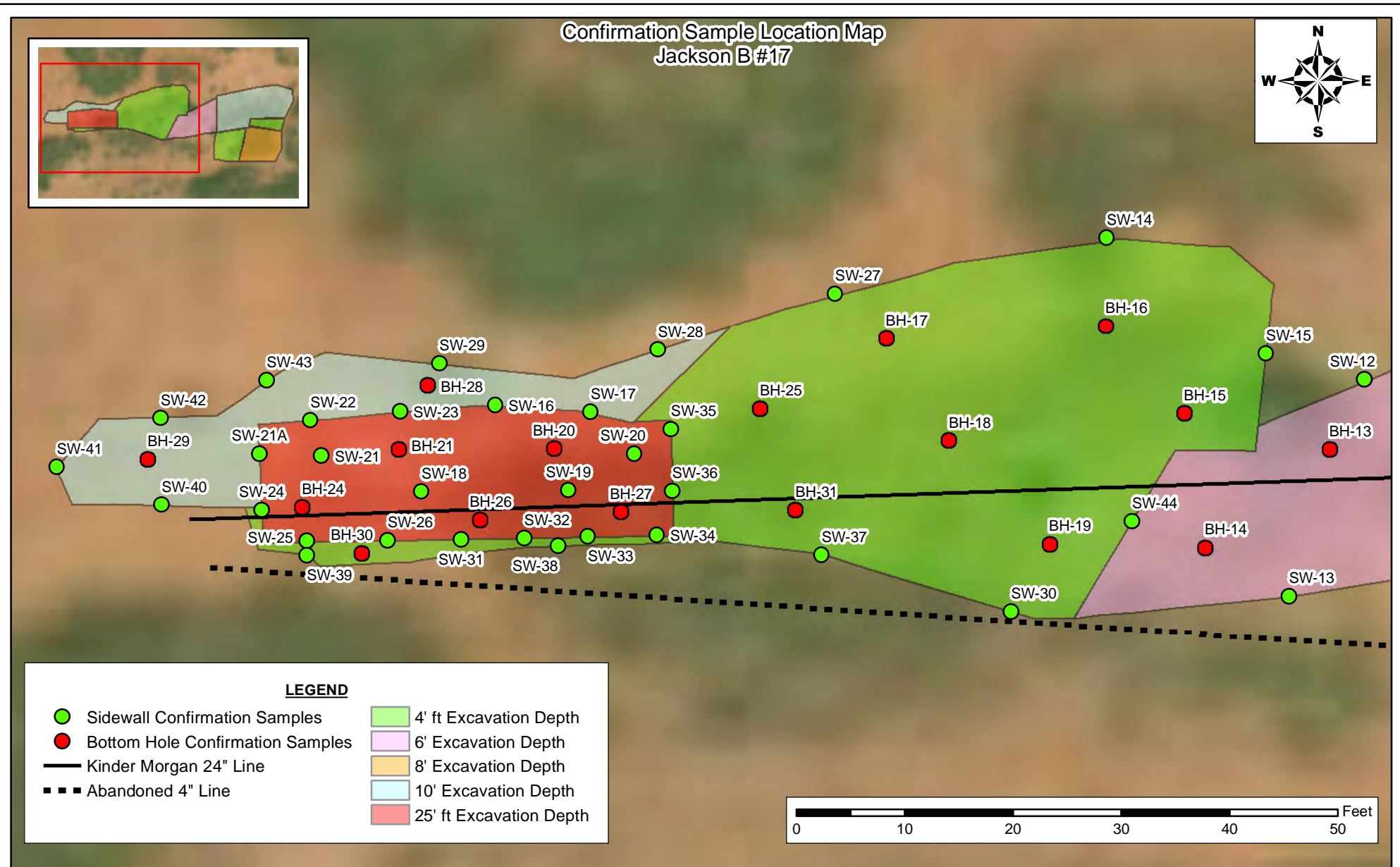
**FIGURE 2**

SHEET NUMBER:

**1 of 1**

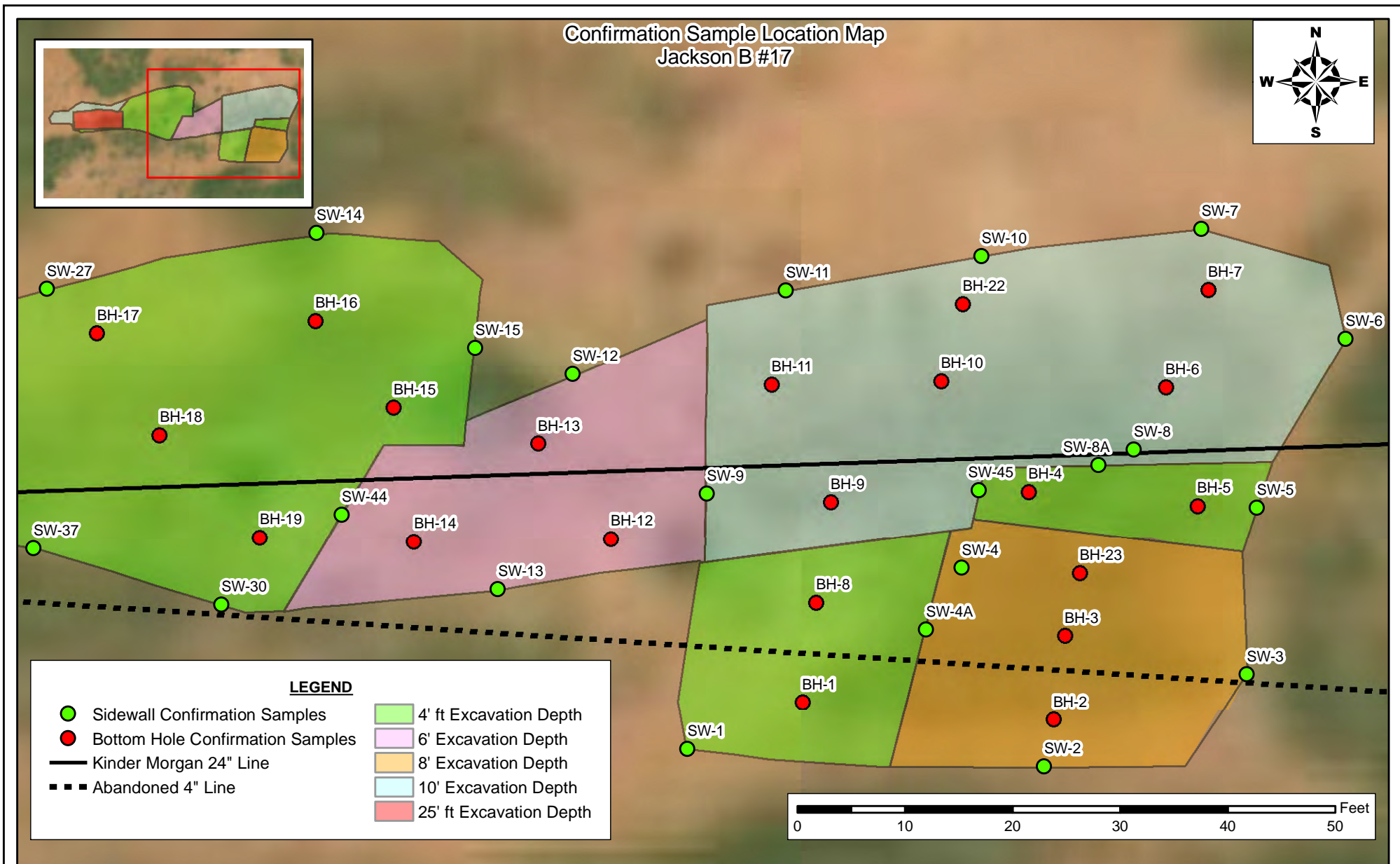
SCALE: As Shown    DATE: 6/7/2022    PROJECT #: 226256





Document Path: P:\2022 PROJECTS\EOG\RSC\226256 Jackson B #17 Flowline Area #2\7 - Figures\GIS\Figure\_3\_Excavation and Confirmation Map 2-2.mxd





Document Path: P:\2022 PROJECTS\EOG\ISOC\226256 Jackson B #17 Flowline Area #217 - Figures\GIS\Figure\_3\_ Excavation and Confirmation Map.mxd

SHEET NUMBER <b>2 of 2</b>	DRAWING NUMBER <b>FIGURE 3</b>	<b>Confirmation Sample Location Map</b> <b>EOG RESOURCES LLC</b> Jackson B #17 EDDY COUNTY, NEW MEXICO 32.858101, -103.925396	<b>NTG</b> <b>ENVIRONMENTAL</b> <b>New Tech Global Environmental, LLC</b> 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntglobal.com	<b>NOTES:</b> 1. Base Image: ESRI Maps and Data 2017 (DigitalGlobe 2016 0.5m Digital Orthophoto) 2. Map Projection: NAD 1983
SCALE: AS SHOWN		DATE: 11/15/2022	PROJECT #: 226256	

# TABLES

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

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
								(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Table I Closure Criteria for Soil >100 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
Confirmation Bottom Hole Samples													
BH-1	9/14/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10	16.0
BH-2	9/14/2022	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	144	144	159	303	32.0
BH-3	9/14/2022	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	106	106	89.6	195.6	32.0
BH-4	9/14/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	570	570	450	1,020	16.0
BH-5	9/14/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	674	674	433	1,107	64.0
<del>BH-6</del>	<del>9/14/2022</del>	<del>8</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>1,160</del>	<del>1,160</del>	<del>416</del>	<del>1,576</del>	<del>32.0</del>
BH-6	9/27/2022	10	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<14	<48	<48	<60
BH-7	9/14/2022	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10	1,100
BH-8	9/16/2022	4	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	79	79	130	210	170
BH-9	9/16/2022	10	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	140	140	180	330	<60
BH-10	9/20/2022	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	260	260	680	940	250
BH-11	9/20/2022	10	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	220	220	500	720	240
BH-12	9/27/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	470	470	1000	1,470	76
BH-13	9/27/2022	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	220	220	550	770	96
BH-14	9/27/2022	6	<0.025	<0.050	<0.50	<0.10	<0.10	<5.0	500	500	1100	1,600	180
BH-15	9/27/2022	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	410	410	1,000	1,410	140
BH-16	9/27/2022	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	650	650	870	1,520	430
BH-17	9/27/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	220	220	670	890	210
BH-18	9/27/2022	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	130	130	270	400	400
BH-19	9/27/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	250	250	300	550	1,200
BH-20	9/30/2022	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	4,400
BH-21	9/30/2022	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	29.4	29.4	<10	29.4	4,920
BH-22	10/19/2022	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	32.0
BH-23	10/19/2022	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	130	130	34.6	164.6	1,280
BH-24	10/28/2022	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	232	232	37.8	269.8	1,400
BH-25	10/31/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	<16.0
BH-26	11/2/2022	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	2,840
BH-27	11/2/2022	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	160
BH-28	11/4/2022	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	416
BH-29	11/4/2022	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78.7	78.7	<10	78.7	320
BH-30	11/4/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	116	116	17.1	133.1	288
BH-31	11/4/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.0	19.0	<10	19.0	272
Confirmation Sidewall Samples													
SW-1	9/14/2022	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10	32.0
<del>SW-2</del>	<del>9/14/2022</del>	<del>0-8</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>2,670</del>	<del>2,670</del>	<del>708</del>	<del>3,378</del>	<del>496</del>
SW-2	9/16/2022	0-8	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<14	<14	<48	<48	<60
<del>SW-3</del>	<del>9/14/2022</del>	<del>0-8</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>1,940</del>	<del>1,940</del>	<del>620</del>	<del>2,560</del>	<del>800</del>
SW-3	9/16/2022	0-8	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<15	<49	<49	<60
<del>SW-4</del>	<del>9/14/2022</del>	<del>4-8</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.150</del>	<del>&lt;0.300</del>	<del>&lt;10.0</del>	<del>1,290</del>	<del>1,290</del>	<del>615</del>	<del>1,905</del>	<del>&lt;16.0</del>
<del>SW-4</del>	<del>9/27/2022</del>	<del>4-8</del>	<del>&lt;0.025</del>	<del>&lt;0.050</del>	<del>&lt;0.050</del>	<del>&lt;0.099</del>	<del>&lt;0.099</del>	<del>&lt;5.0</del>	<del>1,900</del>	<del>1,900</del>	<del>2,500</del>	<del>4,400</del>	<del>&lt;60</del>
SW-4A	10/31/2022	4-8	---	---	---	---	---	<10.0	542	542	206	748	---

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

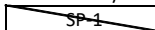
Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table 1 Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg
SW-5	9/14/2022	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10	<16.0
SW-6	9/14/2022	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10	640
SW-6	9/16/2022	0-10	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<15	<15	<49	<49	<60
SW-7	9/14/2022	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10	352
SW-8	9/16/2022	4-10	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	2,100	2,100	1,100	3,200	690
SW-8	9/27/2022	4-10	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	3,700	3,700	2,500	6,200	<60
SW-8A	10/31/2022	4-10	---	---	---	---	---	<10.0	82.0	82.0	30.4	112.4	---
SW-9	9/20/2022	4-10	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	1,700	1,700	1,100	2,800	980
SW-9	9/30/2022	4-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	32.0
SW-10	9/20/2022	0-10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<14	<14	<47	<47	<60
SW-11	9/27/2022	0-10	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<15	<15	<50	<50	<60
SW-12	9/27/2022	0-6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<15	<50	<50	<60
SW-13	9/27/2022	0-6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<14	<48	<48	<60
SW-14	9/27/2022	0-4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<14	<14	<48	<48	<60
SW-15	9/27/2022	0-4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<14	<48	<48	<60
SW-16	9/30/2022	10-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	2,120
SW-17	9/30/2022	10-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	2,160
SW-18	9/30/2022	4-25	<0.200	1.39	17.8	77.8	96.9	2,700	15,400	18,100	2,200	20,300	8,160
SW-19	9/30/2022	4-25	<0.200	1.09	11.0	50.1	62.2	1,590	10,000	11,590	1,650	13,240	5,040
SW-20	9/30/2022	4-25	<0.200	0.990	9.39	34.4	44.2	1,120	8,960	10,080	1,480	11,560	3,880
SW-21	9/30/2022	10-25	<0.200	0.526	10.8	43.2	54.7	1,380	13,900	15,280	2,950	17,630	2,560
SW-21A	10/28/2022	10-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	39.2	39.2	<10.0	39.2	432
SW-22	9/30/2022	Sidewall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-22	10/28/2022	10-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	72.0	72.0	<10.0	72.0	3,680
SW-23	10/28/2022	10-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58.4	58.4	<10	58.4	896
SW-24	10/28/2022	4-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.1	14.1	<10	14.1	128
SW-25	10/28/2022	4-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	418	418	97.8	516	320
SW-26	10/28/2022	4-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	170	170	47.8	218	176
SW-27	10/31/2022	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.5	11.5	11.4	22.9	160
SW-28	10/31/2022	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	32.0
SW-29	10/31/2022	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	16.0
SW-30	10/31/2022	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	<16.0
SW-31	11/2/2022	4-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	400
SW-32	11/2/2022	4-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
SW-33	11/2/2022	4-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,680
SW-34	11/2/2022	4-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-35	11/3/2022	4-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
SW-36	11/3/2022	4-25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	912
SW-37	11/3/2022	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	<16.0
SW-38	11/3/2022	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	<16.0
SW-39	11/3/2022	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	16.0
SW-40	11/3/2022	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	16.0

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

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil >100 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
SW-41	11/3/2022	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	16.0
SW-42	11/4/2022	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	16.0
SW-43	11/4/2022	0-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	16.0
SW-44	11/4/2022	4-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10	<10	<10	144
SW-45	11/4/2022	4-10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	74.1	74.1	48.2	122.3	16.0

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

 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

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

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

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

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

<b>Date of Disposal</b>	<b>Total Pounds Disposed</b>	<b>Total Tons Disposed</b>
9/19/2022	276,960	138
9/20/2022	656,940	328
9/21/2022	745,720	373
9/30/2022	444,200	222
10/3/2022	361,280	181
10/4/2022	664,960	332
10/13/2022	42,340	21
10/28/2022	221,880	111
10/31/2022	413,440	207
11/1/2022	169,880	85
11/2/2022	101,320	51
11/7/2022	252,640	126
<b>Project Total</b>	<b>4,351,560</b>	<b>2,175.78</b>

# ATTACHMENT A: PHOTOGRAPHIC LOG

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## PHOTOGRAPHIC LOG

## EOG Jackson B #17

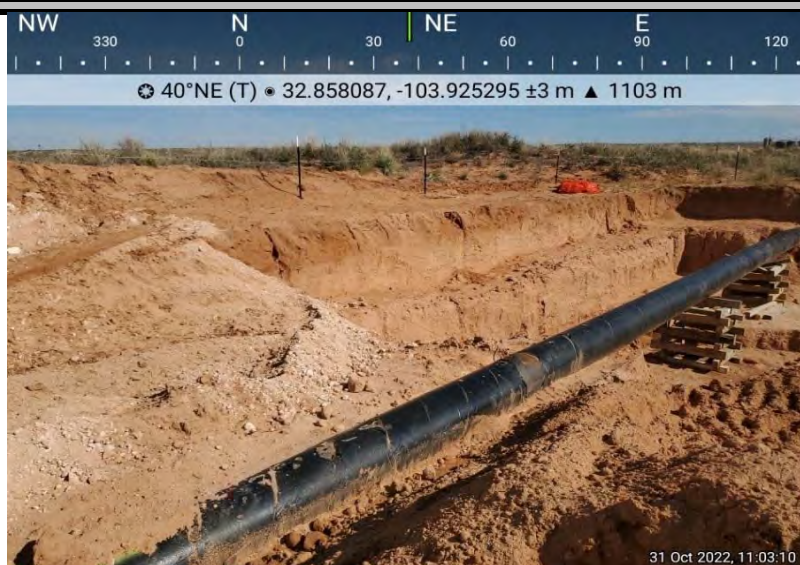
## Photograph No. 1

Facility: Jackson B #17

County: Eddy

## Description:

View of excavation.



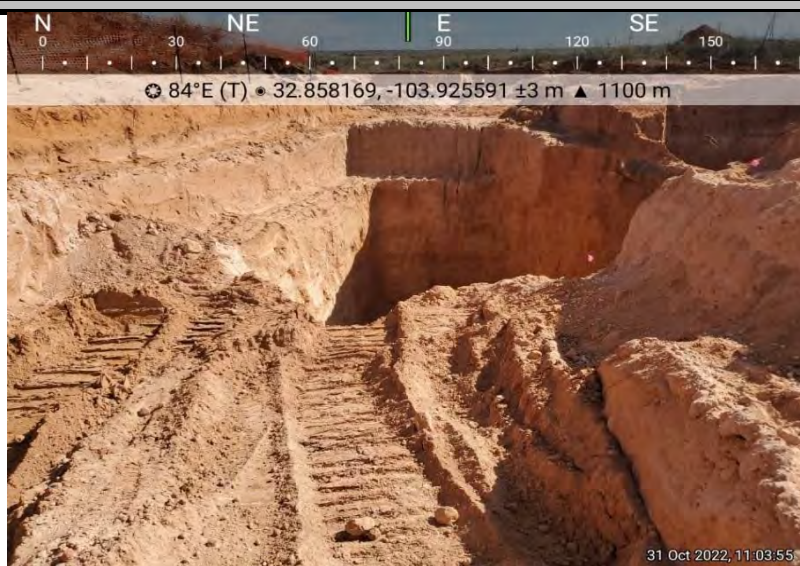
## Photograph No. 2

Facility: Jackson B #17

County: Eddy

## Description:

View of excavation.





## PHOTOGRAPHIC LOG

## EOG Jackson B #17

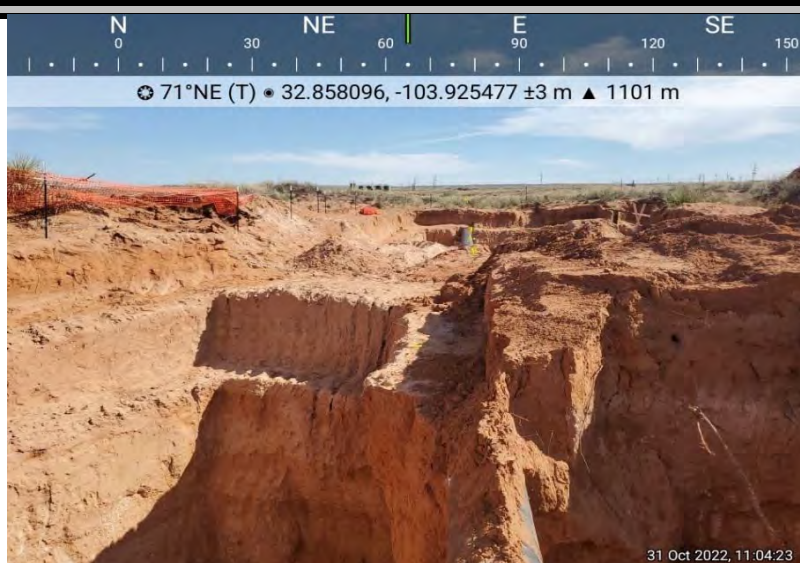
## Photograph No. 3

Facility: Jackson B #17

County: Eddy

## Description:

View of excavation.



## Photograph No. 4

Facility: Jackson B #17

County: Eddy

## Description:

View of excavation.



PHOTOGRAPHIC LOG  
EOG Jackson B #17

Photograph No. 5

Facility: Jackson B #17

County: Eddy

Description:  
View of excavation.



## **ATTACHMENT B: CONFIRMATION SAMPLING NOTIFICATION**

---



## Becky Haskell

---

**From:** Amber Griffin <Amber\_Griffin@eogresources.com>  
**Sent:** Wednesday, September 7, 2022 2:54 PM  
**To:** Becky Haskell  
**Subject:** FW: Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Thank you,  
Amber Griffin

---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Wednesday, September 7, 2022 1:43 PM  
**To:** blm\_nm\_cfo\_spill@blm.gov; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>  
**Cc:** Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia Regulatory <Artesia\_Regulatory@eogresources.com>  
**Subject:** Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

Good Afternoon,

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

Jackson B 17 Flowline Area 2  
O-1-17S-30E  
Eddy County, NM  
nAPP2110638434

Sampling will begin at 10:00 a.m. on Monday, September 12, 2022 and continue through Friday, September 16, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



**Artesia Division**

## Becky Haskell

---

**From:** Amber Griffin <Amber\_Griffin@eogresources.com>  
**Sent:** Wednesday, September 14, 2022 3:25 PM  
**To:** Becky Haskell  
**Subject:** FW: Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Thank you,  
Amber Griffin

---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Wednesday, September 14, 2022 2:25 PM  
**To:** blm\_nm\_cfo\_spill@blm.gov; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>  
**Cc:** Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia Regulatory <Artesia\_Regulatory@eogresources.com>  
**Subject:** Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

Good Afternoon,

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

Jackson B 17 Flowline Area 2  
O-1-17S-30E  
Eddy County, NM  
nAPP2110638434

Sampling will begin at 10:00 a.m. on Monday, September 19, 2022 and continue through Friday, September 23, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



**Artesia Division**

## Becky Haskell

---

**From:** Chase Settle <Chase\_Settle@eogresources.com>  
**Sent:** Thursday, September 22, 2022 9:41 AM  
**To:** Becky Haskell  
**Cc:** Amber Griffin  
**Subject:** FW: Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

---

**From:** Chase Settle  
**Sent:** Thursday, September 22, 2022 8:38 AM  
**To:** 'Becky Haskell' <becky.haskell@ghd.com>  
**Cc:** Amber Griffin <Amber\_Griffin@eogresources.com>  
**Subject:** FW: Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

---

**From:** Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
**Sent:** Thursday, September 22, 2022 8:21 AM  
**To:** [Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov); [Mike.Bratcher@emnrd.nm.gov](mailto:Mike.Bratcher@emnrd.nm.gov); [Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov); [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov); [blm\\_nm\\_cfo\\_spill@blm.gov](mailto:blm_nm_cfo_spill@blm.gov)  
**Cc:** Artesia S&E Spill Remediation <[Artesia\\_S&E\\_Spill\\_Remediation@eogresources.com](mailto:Artesia_S&E_Spill_Remediation@eogresources.com)>; Artesia Regulatory <[Artesia\\_Regulatory@eogresources.com](mailto:Artesia_Regulatory@eogresources.com)>  
**Subject:** Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

Good Morning,

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

Jackson B 17 Flowline Area 2  
O-1-17S-30E  
Eddy County, NM  
nAPP2110638434

Sampling will begin at 10:00 a.m. on Monday, September 26, 2022 and continue through Friday, September 30, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*

*Email:* [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)



**Artesia Division**

## Becky Haskell

---

**From:** Amber Griffin <Amber\_Griffin@eogresources.com>  
**Sent:** Tuesday, October 25, 2022 10:27 AM  
**To:** Becky Haskell  
**Subject:** FW: Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

I don't know that this notification was forwarded to you.

Thank you,  
Amber Griffin

---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Wednesday, October 12, 2022 3:49 PM  
**To:** ocd.enviro@emnrd.nm.gov; blm\_nm\_cfo\_spill@blm.gov  
**Cc:** Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia Regulatory <Artesia\_Regulatory@eogresources.com>  
**Subject:** Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

Good Afternoon,

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

Jackson B 17 Flowline Area 2  
O-1-17S-30E  
Eddy County, NM  
nAPP2110638434

Sampling will begin at 10:00 a.m. on Monday, October 17, 2022 and continue through Friday, October 21, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



**Artesia Division**



## Becky Haskell

---

**From:** Amber Griffin <Amber\_Griffin@eogresources.com>  
**Sent:** Tuesday, October 25, 2022 10:45 AM  
**To:** Becky Haskell  
**Subject:** FW: Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Thank you,  
Amber Griffin

---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Thursday, October 20, 2022 7:16 AM  
**To:** ocd.enviro@emnrd.nm.gov; blm\_nm\_cfo\_spill@blm.gov  
**Cc:** Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia Regulatory <Artesia\_Regulatory@eogresources.com>  
**Subject:** RE: Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

Good Morning,

The sampling will begin at 10:00 a.m. on Tuesday, October 25, 2022 and continue through Friday, October 28, 2022.

Sorry for the error on the Tuesday date.

Thank you.

---

**From:** Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
**Sent:** Wednesday, October 19, 2022 4:53 PM  
**To:** [ocd.enviro@emnrd.nm.gov](mailto:ocd.enviro@emnrd.nm.gov); [blm\\_nm\\_cfo\\_spill@blm.gov](mailto:blm_nm_cfo_spill@blm.gov)  
**Cc:** Artesia S&E Spill Remediation <[Artesia\\_S&E\\_Spill\\_Remediation@eogresources.com](mailto:Artesia_S&E_Spill_Remediation@eogresources.com)>; Artesia Regulatory <[Artesia\\_Regulatory@eogresources.com](mailto:Artesia_Regulatory@eogresources.com)>  
**Subject:** Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

Good Afternoon,

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

Jackson B 17 Flowline Area 2  
O-1-17S-30E  
Eddy County, NM  
nAPP2110638434

Sampling will begin at 10:00 a.m. on Tuesday, October 24, 2022 and continue through Friday, October 28, 2022.

Thank you,

Tina Huerta

Regulatory Specialist

Direct: 575.748.4168

Cell: 575.703.3121

Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)



**Artesia Division**

## Becky Haskell

---

**From:** Amber Griffin <Amber\_Griffin@eogresources.com>  
**Sent:** Wednesday, October 26, 2022 2:27 PM  
**To:** Becky Haskell  
**Subject:** FW: Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Thank you,  
Amber Griffin

---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Wednesday, October 26, 2022 1:26 PM  
**To:** ocd.enviro@emnrd.nm.gov  
**Cc:** Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>; Artesia Regulatory <Artesia\_Regulatory@eogresources.com>  
**Subject:** Jackson B 17 Flowline Area 2 (nAPP2110638434) Sampling Notification

Good Afternoon,

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

Jackson B 17 Flowline Area 2  
O-1-17S-30E  
Eddy County, NM  
nAPP2110638434

Sampling will begin at 10:00 a.m. on Monday, October 31, 2022 and continue through Friday, November 4, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



**Artesia Division**

# **ATTACHMENT C: LABORATORY ANALYTICAL REPORTS AND CHAIN-OF- CUSTODY DOCUMENTATION**

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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September 15, 2022

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: JACKSON B #17

Enclosed are the results of analyses for samples received by the laboratory on 09/14/22 13:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 (H224228-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89	
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71	
Total BTX	<0.300	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/15/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.9 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 (H224228-02)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89	
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71	
Total BTX	<0.300	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	144	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	159	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.3 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 3 (H224228-03)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89		
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71		
Total BTX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	106	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	89.6	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 77.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.2 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 4 (H224228-04)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89	
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71	
Total BTX	<0.300	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/15/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	570	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	450	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 5 (H224228-05)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89		
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71		
Total BTX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	674	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	433	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 6 (H224228-06)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89	
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71	
Total BTX	<0.300	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	1160	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	416	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 7 (H224228-07)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89		
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71		
Total BTX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 71.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 1 (H224228-08)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89	
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71	
Total BTX	<0.300	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 2 (H224228-09)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89		
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71		
Total BTX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	09/15/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	2670	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	708	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 154 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 3 (H224228-10)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89		
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71		
Total BTX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	1940	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	620	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 68.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 142 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 09/14/2022  
Reported: 09/15/2022  
Project Name: JACKSON B #17  
Project Number: 226256  
Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 4 (H224228-11)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89		
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72		
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32		
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71		
Total BTX	<0.300	0.300	09/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	1290	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	615	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 09/14/2022  
Reported: 09/15/2022  
Project Name: JACKSON B #17  
Project Number: 226256  
Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Tamara Oldaker

**Sample ID: SW - 5 (H224228-12)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89	
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71	
Total BTX	<0.300	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.2 % 46.3-178

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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 6 (H224228-13)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89	
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71	
Total BTX	<0.300	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	09/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 76.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.1 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/14/2022  
 Reported: 09/15/2022  
 Project Name: JACKSON B #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/14/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW - 7 (H224228-14)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/15/2022	ND	1.94	97.1	2.00	3.89	
Toluene*	<0.050	0.050	09/15/2022	ND	1.94	97.2	2.00	3.72	
Ethylbenzene*	<0.050	0.050	09/15/2022	ND	1.91	95.5	2.00	3.32	
Total Xylenes*	<0.150	0.150	09/15/2022	ND	6.00	100	6.00	3.71	
Total BTX	<0.300	0.300	09/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/15/2022	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2022	ND	192	96.0	200	0.321	
DRO >C10-C28*	<10.0	10.0	09/15/2022	ND	201	101	200	6.10	
EXT DRO >C28-C36	<10.0	10.0	09/15/2022	ND					

Surrogate: 1-Chlorooctane 76.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 80.1 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> NTGA Environmental <b>Project Manager:</b> Becky Hasbelle <b>Address:</b> 701 Tradewinds Blvd Suite C <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79707 <b>Phone #:</b> 432-766-1918 <b>Fax #:</b> 814shell@ntga.com <b>Project #:</b> 2262 SLE <b>Project Owner:</b> EDG <b>Project Name:</b> Jackson B #17 <b>Project Location:</b> Edley Co, TX <b>Sampler Name:</b> Jeremy Rich				<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> Amber Griffin <b>Address:</b> Direct Bull <b>City:</b> T.O. EOG <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>			
<b>Lab I.D.</b> H224228 <b>Sample I.D.</b>				<b>BILL TO</b>			
<b>FOR LAB USE ONLY</b>				<b>ANALYSIS REQUEST</b>			
<b>Matrix</b> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>Preserv</b> ACID/BASE: ICE / COOL OTHER:		<b>DATE</b> <b>TIME</b>		<b>SAMPLING</b>	
1 BH-1 C 1 2 BH-2 C 1 3 GH-3 C 1 4 BH-4 C 1 5 BH-5 C 1 6 BH-6 C 1 7 BH-7 C 1 8 SW-1 C 1 9 SW-2 C 1 10 SW-3 C 1		9/14/12 12:30 12:32 12:34 12:36 12:38 12:40 12:42 12:44 12:46 12:48		BTEX 8021 B TPH 8015 D (Gr0/DR0/MRD) Chloride method 4500			
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<b>Relinquished By:</b> [Signature] <b>Date:</b> 9/14 <b>Time:</b> 13:42 <b>Date:</b> [Signature] <b>Time:</b> [Signature]				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>All Results are emailed. Please provide Email address:</b>			
<b>Relinquished By:</b> [Signature] <b>Date:</b> [Signature] <b>Time:</b> [Signature]				<b>REMARKS:</b> Email - Becky H Amber G.			
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other:				<b>Turnaround Time:</b> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> <b>Thermometer ID #113</b> <b>Correction Factor -0.6°C</b> <b>Bacteria (only) Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C			





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

<b>Company Name:</b> NTG Environmental <b>Project Manager:</b> Becky Haskell <b>Address:</b> 701 Tradeview Blvd Suite C <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79706 <b>Phone #:</b> 432-266-1918 <b>Fax #:</b> 354-566-1918 <b>Project #:</b> 226254 <b>Project Owner:</b> Eda <b>Project Name:</b> Jackson B # 17 <b>Project Location:</b> Eddy CO NM <b>Sample Name:</b> Terphy Rich				<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> Amber Griffin <b>Address:</b> Direct <b>City:</b> Bldg 10E06 <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>			
<b>Lab I.D.</b> H24228 <b>Sample I.D.</b>				<b>FOR LAB USE ONLY</b>			
<b>PLEASE NOTE:</b> Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.				<b>Relinquished By:</b> [Signature] <b>Relinquished By:</b> [Signature] <b>Delivered By:</b> (Circle One) <input checked="" type="checkbox"/> UPS - Bus - Other:			
<b>Observed Temp. °C</b> 31.1 <b>Corrected Temp. °C</b> 30.5 <b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> <b>Checked By:</b> [Signature]				<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>Remarks:</b> All Results are emailed. Please provide Email address:			
<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> <b>Thermometer ID #113</b> 24hr. <b>Correction Factor -0.6°C</b>				<b>Bacteria (only)</b> <input checked="" type="checkbox"/> <b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> <b>Observed Temp. °C</b> <b>Corrected Temp. °C</b>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	Chloride method	4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
11	SW-4		1									9/14	12:50	X	X	X	X
12	SW-5		1									9/14	12:52	X	X	X	X
13	SW-6		1									9/14	12:54	X	X	X	X
14	SW-7		1									9/14	12:56	X	X	X	X



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

September 26, 2022

Becky Haskell  
NTG Environmental  
701 Tradewinds Blvd.  
Suite c  
Midland, TX 79706  
TEL: (432) 766-1918  
FAX:

RE: Jackson B 17

OrderNo.: 2209883

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/17/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](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 horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2209883

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-2

Project: Jackson B 17

Collection Date: 9/16/2022 10:00:00 AM

Lab ID: 2209883-001

Matrix: SOIL

Received Date: 9/17/2022 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/20/2022 1:30:34 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/20/2022 1:30:34 PM
Surr: DNOP	81.8	21-129		%Rec	1	9/20/2022 1:30:34 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/21/2022 1:47:07 AM
Surr: BFB	95.9	37.7-212		%Rec	1	9/21/2022 1:47:07 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/21/2022 1:47:07 AM
Toluene	ND	0.047		mg/Kg	1	9/21/2022 1:47:07 AM
Ethylbenzene	ND	0.047		mg/Kg	1	9/21/2022 1:47:07 AM
Xylenes, Total	ND	0.095		mg/Kg	1	9/21/2022 1:47:07 AM
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	9/21/2022 1:47:07 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	9/22/2022 3:54:12 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 10



## Analytical Report

Lab Order 2209883

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-3

Project: Jackson B 17

Collection Date: 9/16/2022 10:02:00 AM

Lab ID: 2209883-002

Matrix: SOIL

Received Date: 9/17/2022 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/20/2022 1:41:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/20/2022 1:41:24 PM
Surr: DNOP	83.6	21-129		%Rec	1	9/20/2022 1:41:24 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2022 2:10:30 AM
Surr: BFB	96.5	37.7-212		%Rec	1	9/21/2022 2:10:30 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/21/2022 2:10:30 AM
Toluene	ND	0.049		mg/Kg	1	9/21/2022 2:10:30 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/21/2022 2:10:30 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/21/2022 2:10:30 AM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	9/21/2022 2:10:30 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	9/22/2022 4:06:37 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 2 of 10

## Analytical Report

Lab Order 2209883

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-6

Project: Jackson B 17

Collection Date: 9/16/2022 10:04:00 AM

Lab ID: 2209883-003

Matrix: SOIL

Received Date: 9/17/2022 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/20/2022 1:52:13 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/20/2022 1:52:13 PM
Surr: DNOP	79.2	21-129		%Rec	1	9/20/2022 1:52:13 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/21/2022 2:33:59 AM
Surr: BFB	97.3	37.7-212		%Rec	1	9/21/2022 2:33:59 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/21/2022 2:33:59 AM
Toluene	ND	0.048		mg/Kg	1	9/21/2022 2:33:59 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/21/2022 2:33:59 AM
Xylenes, Total	ND	0.096		mg/Kg	1	9/21/2022 2:33:59 AM
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	9/21/2022 2:33:59 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	9/22/2022 5:08:39 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 3 of 10

## Analytical Report

Lab Order 2209883

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-8

Project: Jackson B 17

Collection Date: 9/16/2022 10:06:00 AM

Lab ID: 2209883-004

Matrix: SOIL

Received Date: 9/17/2022 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	79	15		mg/Kg	1	9/21/2022 6:41:02 PM
Motor Oil Range Organics (MRO)	130	49		mg/Kg	1	9/21/2022 6:41:02 PM
Surr: DNOP	82.9	21-129		%Rec	1	9/21/2022 6:41:02 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/21/2022 2:57:28 AM
Surr: BFB	93.3	37.7-212		%Rec	1	9/21/2022 2:57:28 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/21/2022 2:57:28 AM
Toluene	ND	0.049		mg/Kg	1	9/21/2022 2:57:28 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/21/2022 2:57:28 AM
Xylenes, Total	ND	0.099		mg/Kg	1	9/21/2022 2:57:28 AM
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	9/21/2022 2:57:28 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
Chloride	170	60		mg/Kg	20	9/22/2022 5:21:04 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 4 of 10

## Analytical Report

Lab Order 2209883

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-8

Project: Jackson B 17

Collection Date: 9/16/2022 10:08:00 AM

Lab ID: 2209883-005

Matrix: SOIL

Received Date: 9/17/2022 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	2100	150		mg/Kg	10	9/20/2022 2:13:51 PM
Motor Oil Range Organics (MRO)	1100	490		mg/Kg	10	9/20/2022 2:13:51 PM
Surr: DNOP	0	21-129	S	%Rec	10	9/20/2022 2:13:51 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/21/2022 3:20:57 AM
Surr: BFB	91.7	37.7-212		%Rec	1	9/21/2022 3:20:57 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/21/2022 3:20:57 AM
Toluene	ND	0.048		mg/Kg	1	9/21/2022 3:20:57 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/21/2022 3:20:57 AM
Xylenes, Total	ND	0.096		mg/Kg	1	9/21/2022 3:20:57 AM
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	9/21/2022 3:20:57 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
Chloride	690	60		mg/Kg	20	9/22/2022 5:33:29 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209883

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-9

Project: Jackson B 17

Collection Date: 9/16/2022 10:10:00 AM

Lab ID: 2209883-006

Matrix: SOIL

Received Date: 9/17/2022 11:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	140	15		mg/Kg	1	9/21/2022 7:13:18 PM
Motor Oil Range Organics (MRO)	180	50		mg/Kg	1	9/21/2022 7:13:18 PM
Surr: DNOP	94.9	21-129		%Rec	1	9/21/2022 7:13:18 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/21/2022 4:07:55 AM
Surr: BFB	97.0	37.7-212		%Rec	1	9/21/2022 4:07:55 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/21/2022 4:07:55 AM
Toluene	ND	0.050		mg/Kg	1	9/21/2022 4:07:55 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/21/2022 4:07:55 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/21/2022 4:07:55 AM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	9/21/2022 4:07:55 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	9/22/2022 5:45:53 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical 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#: 2209883

26-Sep-22

**Client:** NTG Environmental**Project:** Jackson B 17

Sample ID: <b>MB-70346</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70346</b>	RunNo: <b>91230</b>								
Prep Date: <b>9/22/2022</b>	Analysis Date: <b>9/22/2022</b>	SeqNo: <b>3265635</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-70346</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70346</b>	RunNo: <b>91230</b>								
Prep Date: <b>9/22/2022</b>	Analysis Date: <b>9/22/2022</b>	SeqNo: <b>3265636</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	94.7	90	110			

Sample ID: <b>2209883-001AMS</b>	SampType: <b>ms</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>SW-2</b>	Batch ID: <b>70346</b>	RunNo: <b>91230</b>								
Prep Date: <b>9/22/2022</b>	Analysis Date: <b>9/22/2022</b>	SeqNo: <b>3265665</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	60	30.00	0	0	57.5	166			S

Sample ID: <b>2209883-001AMSD</b>	SampType: <b>msd</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>SW-2</b>	Batch ID: <b>70346</b>	RunNo: <b>91230</b>								
Prep Date: <b>9/22/2022</b>	Analysis Date: <b>9/22/2022</b>	SeqNo: <b>3265666</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	60	30.00	0	0	57.5	166	0	20	S

**Qualifiers:**

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



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

WO#: 2209883

26-Sep-22

**Client:** NTG Environmental**Project:** Jackson B 17

Sample ID: <b>LCS-70271</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70271</b>		RunNo: <b>91149</b>							
Prep Date: <b>9/19/2022</b>	Analysis Date: <b>9/20/2022</b>		SeqNo: <b>3261434</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	15	50.00	0	73.0	64.4	127			
Surr: DNOP	3.2		5.000		63.4	21	129			

Sample ID: <b>MB-70271</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70271</b>		RunNo: <b>91149</b>							
Prep Date: <b>9/19/2022</b>	Analysis Date: <b>9/20/2022</b>		SeqNo: <b>3261435</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	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.0		10.00		80.2	21	129			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2209883

26-Sep-22

**Client:** NTG Environmental**Project:** Jackson B 17

Sample ID: <b>mb-70263</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70263</b>		RunNo: <b>91148</b>							
Prep Date: <b>9/19/2022</b>	Analysis Date: <b>9/20/2022</b>		SeqNo: <b>3261883</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	37.7	212			

Sample ID: <b>lcs-70263</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70263</b>		RunNo: <b>91148</b>							
Prep Date: <b>9/19/2022</b>	Analysis Date: <b>9/20/2022</b>		SeqNo: <b>3261884</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	106	72.3	137			
Surr: BFB	2000		1000		200	37.7	212			

**Qualifiers:**

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

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

WO#: 2209883

26-Sep-22

**Client:** NTG Environmental**Project:** Jackson B 17

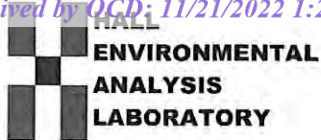
Sample ID: <b>mb-70263</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70263</b>		RunNo: <b>91148</b>							
Prep Date: <b>9/19/2022</b>	Analysis Date: <b>9/20/2022</b>		SeqNo: <b>3261927</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	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-70263</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70263</b>		RunNo: <b>91148</b>							
Prep Date: <b>9/19/2022</b>	Analysis Date: <b>9/20/2022</b>		SeqNo: <b>3261928</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.93	0.050	1.000	0	93.1	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

**Qualifiers:**

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

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## Sample Log-In Check List

Client Name: NTG Environmental

Work Order Number: 2209883

RcptNo: 1

Received By: Juan Rojas

9/17/2022 11:30:00 AM

*Juan Rojas*

Completed By: Juan Rojas

9/17/2022 11:45:08 AM

*Juan Rojas*Reviewed By: *JP 9/17/22***Chain of Custody**

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

**Log In**

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

# of preserved  
bottles checked  
for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: *JP 9/17/22***Special Handling (if applicable)**

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good				



Chain-of-Custody Record									
Client: <u>NTG Environmental</u>									
Mailing Address: <u>701 Tradewinds Blvd,</u>									
<u>Suite C Midland, TX 79706</u>									
Phone #: <u>432</u>									
email or Fax#: <u>BHaske1@NTGglobal.com</u>									
QA/QC Package:									
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)									
Accreditation: <input type="checkbox"/> Az Compliance									
<input type="checkbox"/> NELAC <input type="checkbox"/> Other _____									
<input type="checkbox"/> EDD (Type) _____									
Turn-Around Time:		<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>5 Day</u>							
Project Name:		<u>Jackson B #17</u>							
Project #:		<u>226256</u>							
Project Manager:		<u>Becky Haske1</u>							
Sampler:									
On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No									
# of Coolers: <u>1</u>									
Cooler Temp (including CF): <u>0.9 to 2 = 1.1</u>		(°C)							
Container Type and #		Preservative Type		HEAL No.					
1 4oz		none/ice		2209883					
1 4oz		none/ice		-001					
1 4oz		none/ice		-002					
1 4oz		none/ice		-003					
1 4oz		none/ice		-004					
1 4oz		none/ice		-005					
1 4oz		none/ice		-006					
Date		Time		Matrix		Sample Name			
9/16		10:00		S		SW-2			
9/16		10:02		S		SW-3			
9/16		10:04		S		SW-6			
9/16		10:06		S		BH-8			
9/16		10:08		S		SW-8			
9/16		10:10		S		BH-9			
Date:		Time:		Relinquished by:		Received by:			
9/16		11:30 AM		[Signature]		Via:		Date Time	
9/16		1900		[Signature]		Via:		Date Time	



**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

[illegible]

Remarks:

Date:	Time:	Relinquished by:	Received by:	Via:	Date:	Time:
9/16	11:30 AM	[Signature]	[Signature]		9/16/82	11:30
9/16/82	1900	[Signature]	[Signature]		9/17/82	11:30

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

September 29, 2022

Becky Haskell  
NTG Environmental  
701 Tradewinds Blvd.  
Suite c  
Midland, TX 79706  
TEL: (432) 766-1918  
FAX:

RE: Jackson 17

OrderNo.: 2209A54

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/21/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](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 horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2209A54

Date Reported: 9/29/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-10

Project: Jackson 17

Collection Date: 9/20/2022 10:00:00 AM

Lab ID: 2209A54-001

Matrix: SOIL

Received Date: 9/21/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	260	140		mg/Kg	10	9/23/2022 2:08:39 PM
Motor Oil Range Organics (MRO)	680	470		mg/Kg	10	9/23/2022 2:08:39 PM
Surr: DNOP	0	21-129	S	%Rec	10	9/23/2022 2:08:39 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/22/2022 3:10:03 PM
Surr: BFB	97.8	37.7-212		%Rec	1	9/22/2022 3:10:03 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	9/22/2022 3:10:03 PM
Toluene	ND	0.048		mg/Kg	1	9/22/2022 3:10:03 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/22/2022 3:10:03 PM
Xylenes, Total	ND	0.096		mg/Kg	1	9/22/2022 3:10:03 PM
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	9/22/2022 3:10:03 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	250	60		mg/Kg	20	9/28/2022 12:14:54 AM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209A54

Date Reported: 9/29/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-11

Project: Jackson 17

Collection Date: 9/20/2022 10:05:00 AM

Lab ID: 2209A54-002

Matrix: SOIL

Received Date: 9/21/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	220	74		mg/Kg	5	9/23/2022 4:32:02 PM
Motor Oil Range Organics (MRO)	500	250		mg/Kg	5	9/23/2022 4:32:02 PM
Surr: DNOP	43.2	21-129		%Rec	5	9/23/2022 4:32:02 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/22/2022 4:20:49 PM
Surr: BFB	96.2	37.7-212		%Rec	1	9/22/2022 4:20:49 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	9/22/2022 4:20:49 PM
Toluene	ND	0.048		mg/Kg	1	9/22/2022 4:20:49 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/22/2022 4:20:49 PM
Xylenes, Total	ND	0.097		mg/Kg	1	9/22/2022 4:20:49 PM
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	9/22/2022 4:20:49 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	240	60		mg/Kg	20	9/28/2022 12:27:15 AM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209A54

Date Reported: 9/29/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-9

Project: Jackson 17

Collection Date: 9/20/2022 10:10:00 AM

Lab ID: 2209A54-003

Matrix: SOIL

Received Date: 9/21/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: DGH
Diesel Range Organics (DRO)	1700	140		mg/Kg	10	9/23/2022 3:22:58 PM
Motor Oil Range Organics (MRO)	1100	470		mg/Kg	10	9/23/2022 3:22:58 PM
Surr: DNOP	0	21-129	S	%Rec	10	9/23/2022 3:22:58 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/22/2022 4:44:23 PM
Surr: BFB	95.4	37.7-212		%Rec	1	9/22/2022 4:44:23 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/22/2022 4:44:23 PM
Toluene	ND	0.050		mg/Kg	1	9/22/2022 4:44:23 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/22/2022 4:44:23 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/22/2022 4:44:23 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	9/22/2022 4:44:23 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: JTT
Chloride	980	60		mg/Kg	20	9/28/2022 12:39:35 AM

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

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

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## Analytical Report

Lab Order 2209A54

Date Reported: 9/29/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-10

Project: Jackson 17

Collection Date: 9/20/2022 10:15:00 AM

Lab ID: 2209A54-004

Matrix: SOIL

Received Date: 9/21/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/23/2022 3:54:48 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/23/2022 3:54:48 PM
Surr: DNOP	97.6	21-129		%Rec	1	9/23/2022 3:54:48 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/22/2022 5:07:55 PM
Surr: BFB	94.7	37.7-212		%Rec	1	9/22/2022 5:07:55 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	9/22/2022 5:07:55 PM
Toluene	ND	0.048		mg/Kg	1	9/22/2022 5:07:55 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/22/2022 5:07:55 PM
Xylenes, Total	ND	0.096		mg/Kg	1	9/22/2022 5:07:55 PM
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	9/22/2022 5:07:55 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	9/28/2022 12:51:56 AM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical 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#: 2209A54

29-Sep-22

Client: NTG Environmental

Project: Jackson 17

Sample ID: <b>MB-70444</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70444</b>	RunNo: <b>91365</b>								
Prep Date: <b>9/27/2022</b>	Analysis Date: <b>9/27/2022</b>	SeqNo: <b>3270700</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-70444</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70444</b>	RunNo: <b>91365</b>								
Prep Date: <b>9/27/2022</b>	Analysis Date: <b>9/27/2022</b>	SeqNo: <b>3270701</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	95.0	90	110			

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2209A54

29-Sep-22

**Client:** NTG Environmental**Project:** Jackson 17

Sample ID: <b>LCS-70355</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70355</b>		RunNo: <b>91268</b>							
Prep Date: <b>9/22/2022</b>	Analysis Date: <b>9/23/2022</b>		SeqNo: <b>3266106</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	15	50.00	0	81.1	64.4	127			
Surr: DNOP	4.2		5.000		83.0	21	129			

Sample ID: <b>MB-70355</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70355</b>		RunNo: <b>91268</b>							
Prep Date: <b>9/22/2022</b>	Analysis Date: <b>9/23/2022</b>		SeqNo: <b>3266107</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	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		123	21	129			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2209A54

29-Sep-22

**Client:** NTG Environmental**Project:** Jackson 17

Sample ID: <b>ics-70327</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>70327</b>			RunNo: <b>91225</b>						
Prep Date: <b>9/21/2022</b>	Analysis Date: <b>9/22/2022</b>			SeqNo: <b>3265220</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	72.3	137			
Surr: BFB	2000		1000		198	37.7	212			

Sample ID: <b>mb-70327</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>70327</b>			RunNo: <b>91225</b>						
Prep Date: <b>9/21/2022</b>	Analysis Date: <b>9/22/2022</b>			SeqNo: <b>3265222</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	960		1000		96.4	37.7	212			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2209A54

29-Sep-22

**Client:** NTG Environmental**Project:** Jackson 17

Sample ID: <b>LCS-70327</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>70327</b>			RunNo: <b>91225</b>						
Prep Date: <b>9/21/2022</b>	Analysis Date: <b>9/22/2022</b>			SeqNo: <b>3265259</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.8	80	120			
Toluene	0.99	0.050	1.000	0	99.4	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: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: <b>mb-70327</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>70327</b>			RunNo: <b>91225</b>						
Prep Date: <b>9/21/2022</b>	Analysis Date: <b>9/22/2022</b>			SeqNo: <b>3265261</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			

**Qualifiers:**

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





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

## Sample Log-In Check List

Client Name: NTG Environmental

Work Order Number: 2209A54

RcptNo: 1

Received By: Juan Rojas

9/21/2022 7:30:00 AM

Completed By: Tracy Casarrubias

9/21/2022 9:54:03 AM

Reviewed By: *JA 9/21/22*

### Chain of Custody

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

### 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:

*JO*  
*9/21/22*

### Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			





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

October 24, 2022

Becky Haskell  
NTG Environmental  
701 Tradewinds Blvd.  
Suite c  
Midland, TX 79706  
TEL: (432) 766-1918  
FAX

RE: Jackson 17

OrderNo.: 2209G22

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 16 sample(s) on 9/29/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](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 horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-6 10'

Project: Jackson 17

Collection Date: 9/27/2022 10:00:00 AM

Lab ID: 2209G22-001

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/13/2022 4:39:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/13/2022 4:39:27 PM
Surr: DNOP	126	21-129		%Rec	1	10/13/2022 4:39:27 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/1/2022 5:43:00 AM
Surr: BFB	106	37.7-212		%Rec	1	10/1/2022 5:43:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	10/1/2022 5:43:00 AM
Toluene	ND	0.049		mg/Kg	1	10/1/2022 5:43:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 5:43:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/1/2022 5:43:00 AM
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	10/1/2022 5:43:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	10/4/2022 7:47:23 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-4 4-8'

Project: Jackson 17

Collection Date: 9/27/2022 10:02:00 AM

Lab ID: 2209G22-002

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	1900	290		mg/Kg	20	10/4/2022 1:37:46 PM
Motor Oil Range Organics (MRO)	2500	960		mg/Kg	20	10/4/2022 1:37:46 PM
Surr: DNOP	0	21-129	S	%Rec	20	10/4/2022 1:37:46 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/1/2022 6:02:00 AM
Surr: BFB	105	37.7-212		%Rec	1	10/1/2022 6:02:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	10/1/2022 6:02:00 AM
Toluene	ND	0.050		mg/Kg	1	10/1/2022 6:02:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/1/2022 6:02:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/1/2022 6:02:00 AM
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	10/1/2022 6:02:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	10/4/2022 7:59:48 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-8 4-8'

Project: Jackson 17

Collection Date: 9/27/2022 10:04:00 AM

Lab ID: 2209G22-003

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	3700	280	H	mg/Kg	20	10/18/2022 2:04:28 PM
Motor Oil Range Organics (MRO)	2500	940	H	mg/Kg	20	10/18/2022 2:04:28 PM
Surr: DNOP	0	21-129	SH	%Rec	20	10/18/2022 2:04:28 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/1/2022 6:22:00 AM
Surr: BFB	112	37.7-212		%Rec	1	10/1/2022 6:22:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	10/1/2022 6:22:00 AM
Toluene	ND	0.049		mg/Kg	1	10/1/2022 6:22:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 6:22:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/1/2022 6:22:00 AM
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	10/1/2022 6:22:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	10/4/2022 8:12:12 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-12 6'

Project: Jackson 17

Collection Date: 9/27/2022 10:06:00 AM

Lab ID: 2209G22-004

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	470	71		mg/Kg	5	10/14/2022 9:56:17 PM
Motor Oil Range Organics (MRO)	1000	240		mg/Kg	5	10/14/2022 9:56:17 PM
Surr: DNOP	128	21-129		%Rec	5	10/14/2022 9:56:17 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/1/2022 6:42:00 AM
Surr: BFB	105	37.7-212		%Rec	1	10/1/2022 6:42:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	10/1/2022 6:42:00 AM
Toluene	ND	0.048		mg/Kg	1	10/1/2022 6:42:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/1/2022 6:42:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/1/2022 6:42:00 AM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	10/1/2022 6:42:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	76	60		mg/Kg	20	10/4/2022 8:24:37 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-13 6'

Project: Jackson 17

Collection Date: 9/27/2022 10:08:00 AM

Lab ID: 2209G22-005

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	220	140		mg/Kg	10	10/4/2022 3:45:08 PM
Motor Oil Range Organics (MRO)	550	480		mg/Kg	10	10/4/2022 3:45:08 PM
Surr: DNOP	0	21-129	S	%Rec	10	10/4/2022 3:45:08 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/1/2022 7:01:00 AM
Surr: BFB	107	37.7-212		%Rec	1	10/1/2022 7:01:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	10/1/2022 7:01:00 AM
Toluene	ND	0.048		mg/Kg	1	10/1/2022 7:01:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/1/2022 7:01:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/1/2022 7:01:00 AM
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	10/1/2022 7:01:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	96	60		mg/Kg	20	10/4/2022 9:01:50 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-14 6'

Project: Jackson 17

Collection Date: 9/27/2022 10:10:00 AM

Lab ID: 2209G22-006

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	500	71		mg/Kg	5	10/14/2022 10:44:07 PM
Motor Oil Range Organics (MRO)	1100	240		mg/Kg	5	10/14/2022 10:44:07 PM
Surr: DNOP	133	21-129	S	%Rec	5	10/14/2022 10:44:07 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/1/2022 7:21:00 AM
Surr: BFB	107	37.7-212		%Rec	1	10/1/2022 7:21:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	10/1/2022 7:21:00 AM
Toluene	ND	0.050		mg/Kg	1	10/1/2022 7:21:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/1/2022 7:21:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/1/2022 7:21:00 AM
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	10/1/2022 7:21:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	180	61		mg/Kg	20	10/4/2022 9:14:14 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-15 4'

Project: Jackson 17

Collection Date: 9/27/2022 10:12:00 AM

Lab ID: 2209G22-007

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	410	150		mg/Kg	10	10/4/2022 5:10:04 PM
Motor Oil Range Organics (MRO)	1000	500		mg/Kg	10	10/4/2022 5:10:04 PM
Surr: DNOP	0	21-129	S	%Rec	10	10/4/2022 5:10:04 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/1/2022 7:41:00 AM
Surr: BFB	102	37.7-212		%Rec	1	10/1/2022 7:41:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	10/1/2022 7:41:00 AM
Toluene	ND	0.049		mg/Kg	1	10/1/2022 7:41:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 7:41:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/1/2022 7:41:00 AM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	10/1/2022 7:41:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	140	60		mg/Kg	20	10/4/2022 9:51:28 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-16 4'

Project: Jackson 17

Collection Date: 9/27/2022 10:14:00 AM

Lab ID: 2209G22-008

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	650	29		mg/Kg	2	10/14/2022 11:32:07 PM
Motor Oil Range Organics (MRO)	870	95		mg/Kg	2	10/14/2022 11:32:07 PM
Surr: DNOP	122	21-129		%Rec	2	10/14/2022 11:32:07 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/1/2022 8:20:00 AM
Surr: BFB	114	37.7-212		%Rec	1	10/1/2022 8:20:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	10/1/2022 8:20:00 AM
Toluene	ND	0.047		mg/Kg	1	10/1/2022 8:20:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/1/2022 8:20:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/1/2022 8:20:00 AM
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	10/1/2022 8:20:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	430	60		mg/Kg	20	10/4/2022 10:03:53 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-17 4'

Project: Jackson 17

Collection Date: 9/27/2022 10:16:00 AM

Lab ID: 2209G22-009

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	220	150		mg/Kg	10	10/4/2022 6:03:39 PM
Motor Oil Range Organics (MRO)	670	480		mg/Kg	10	10/4/2022 6:03:39 PM
Surr: DNOP	0	21-129	S	%Rec	10	10/4/2022 6:03:39 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/1/2022 8:40:00 AM
Surr: BFB	103	37.7-212		%Rec	1	10/1/2022 8:40:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	10/1/2022 8:40:00 AM
Toluene	ND	0.049		mg/Kg	1	10/1/2022 8:40:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 8:40:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/1/2022 8:40:00 AM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	10/1/2022 8:40:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	210	60		mg/Kg	20	10/4/2022 10:16:17 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-18 4'

Project: Jackson 17

Collection Date: 9/27/2022 10:18:00 AM

Lab ID: 2209G22-010

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	130	29		mg/Kg	2	10/15/2022 12:20:04 AM
Motor Oil Range Organics (MRO)	270	97		mg/Kg	2	10/15/2022 12:20:04 AM
Surr: DNOP	138	21-129	S	%Rec	2	10/15/2022 12:20:04 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/1/2022 9:00:00 AM
Surr: BFB	105	37.7-212		%Rec	1	10/1/2022 9:00:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	10/1/2022 9:00:00 AM
Toluene	ND	0.049		mg/Kg	1	10/1/2022 9:00:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 9:00:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/1/2022 9:00:00 AM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	10/1/2022 9:00:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	400	60		mg/Kg	20	10/4/2022 10:28:41 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: BH-19 4'

Project: Jackson 17

Collection Date: 9/27/2022 10:20:00 AM

Lab ID: 2209G22-011

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	250	15		mg/Kg	1	10/15/2022 1:07:52 AM
Motor Oil Range Organics (MRO)	300	49		mg/Kg	1	10/15/2022 1:07:52 AM
Surr: DNOP	130	21-129	S	%Rec	1	10/15/2022 1:07:52 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/1/2022 9:19:00 AM
Surr: BFB	108	37.7-212		%Rec	1	10/1/2022 9:19:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	10/1/2022 9:19:00 AM
Toluene	ND	0.049		mg/Kg	1	10/1/2022 9:19:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 9:19:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/1/2022 9:19:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	10/1/2022 9:19:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	1200	60		mg/Kg	20	10/4/2022 10:41:05 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-11 0-12'

Project: Jackson 17

Collection Date: 9/27/2022 10:26:00 AM

Lab ID: 2209G22-012

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/13/2022 8:25:05 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/13/2022 8:25:05 PM
Surr: DNOP	120	21-129		%Rec	1	10/13/2022 8:25:05 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/1/2022 9:39:00 AM
Surr: BFB	111	37.7-212		%Rec	1	10/1/2022 9:39:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	10/1/2022 9:39:00 AM
Toluene	ND	0.048		mg/Kg	1	10/1/2022 9:39:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/1/2022 9:39:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/1/2022 9:39:00 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	10/1/2022 9:39:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	10/4/2022 10:53:29 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-12 0-6'

Project: Jackson 17

Collection Date: 9/27/2022 10:28:00 AM

Lab ID: 2209G22-013

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/13/2022 8:39:17 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/13/2022 8:39:17 PM
Surr: DNOP	114	21-129		%Rec	1	10/13/2022 8:39:17 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/1/2022 9:59:00 AM
Surr: BFB	106	37.7-212		%Rec	1	10/1/2022 9:59:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	10/1/2022 9:59:00 AM
Toluene	ND	0.048		mg/Kg	1	10/1/2022 9:59:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/1/2022 9:59:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/1/2022 9:59:00 AM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	10/1/2022 9:59:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	10/4/2022 11:30:41 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-13 0-6'

Project: Jackson 17

Collection Date: 9/27/2022 10:30:00 AM

Lab ID: 2209G22-014

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/13/2022 8:53:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/13/2022 8:53:09 PM
Surr: DNOP	118	21-129		%Rec	1	10/13/2022 8:53:09 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/1/2022 10:19:00 AM
Surr: BFB	110	37.7-212		%Rec	1	10/1/2022 10:19:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	10/1/2022 10:19:00 AM
Toluene	ND	0.049		mg/Kg	1	10/1/2022 10:19:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 10:19:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/1/2022 10:19:00 AM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	10/1/2022 10:19:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	10/4/2022 11:43:05 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-14 0-4'

Project: Jackson 17

Collection Date: 9/27/2022 10:32:00 AM

Lab ID: 2209G22-015

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/13/2022 9:06:55 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/13/2022 9:06:55 PM
Surr: DNOP	117	21-129		%Rec	1	10/13/2022 9:06:55 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/1/2022 10:38:00 AM
Surr: BFB	103	37.7-212		%Rec	1	10/1/2022 10:38:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	10/1/2022 10:38:00 AM
Toluene	ND	0.047		mg/Kg	1	10/1/2022 10:38:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/1/2022 10:38:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/1/2022 10:38:00 AM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	10/1/2022 10:38:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	10/4/2022 11:55:29 PM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2209G22

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: NTG Environmental

Client Sample ID: SW-15 0-4'

Project: Jackson 17

Collection Date: 9/27/2022 10:34:00 AM

Lab ID: 2209G22-016

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/13/2022 9:20:59 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/13/2022 9:20:59 PM
Surr: DNOP	120	21-129		%Rec	1	10/13/2022 9:20:59 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/1/2022 10:58:00 AM
Surr: BFB	115	37.7-212		%Rec	1	10/1/2022 10:58:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	10/1/2022 10:58:00 AM
Toluene	ND	0.049		mg/Kg	1	10/1/2022 10:58:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/1/2022 10:58:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/1/2022 10:58:00 AM
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	10/1/2022 10:58:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
Chloride	ND	60		mg/Kg	20	10/5/2022 12:07:53 AM

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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical 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#: 2209G22

24-Oct-22

**Client:** NTG Environmental**Project:** Jackson 17

Sample ID: <b>MB-70594</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70594</b>	RunNo: <b>91529</b>								
Prep Date: <b>10/4/2022</b>	Analysis Date: <b>10/4/2022</b>	SeqNo: <b>3278485</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-70594</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70594</b>	RunNo: <b>91529</b>								
Prep Date: <b>10/4/2022</b>	Analysis Date: <b>10/4/2022</b>	SeqNo: <b>3278486</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	95.0	90	110			

**Qualifiers:**

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

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

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

WO#: 2209G22

24-Oct-22

**Client:** NTG Environmental**Project:** Jackson 17

Sample ID: <b>2209G22-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-6 10'</b>	Batch ID: <b>70522</b>	RunNo: <b>91482</b>								
Prep Date: <b>9/30/2022</b>	Analysis Date: <b>10/4/2022</b>	SeqNo: <b>3278031</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	29	14	46.82	0	62.2	36.1	154			
Surr: DNOP	3.2		4.682		68.1	21	129			

Sample ID: <b>2209G22-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-6 10'</b>	Batch ID: <b>70522</b>	RunNo: <b>91482</b>								
Prep Date: <b>9/30/2022</b>	Analysis Date: <b>10/4/2022</b>	SeqNo: <b>3278032</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	32	15	49.60	0	65.1	36.1	154	10.4	33.9	
Surr: DNOP	3.5		4.960		69.8	21	129	0	0	

Sample ID: <b>LCS-70522</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70522</b>	RunNo: <b>91482</b>								
Prep Date: <b>9/30/2022</b>	Analysis Date: <b>10/4/2022</b>	SeqNo: <b>3278040</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	32	15	50.00	0	63.6	64.4	127			S
Surr: DNOP	3.2		5.000		63.1	21	129			

Sample ID: <b>MB-70511</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70511</b>	RunNo: <b>91482</b>								
Prep Date: <b>9/30/2022</b>	Analysis Date: <b>10/3/2022</b>	SeqNo: <b>3278042</b> Units: <b>%Rec</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.3		10.00		73.2	21	129			

Sample ID: <b>MB-70522</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70522</b>	RunNo: <b>91482</b>								
Prep Date: <b>9/30/2022</b>	Analysis Date: <b>10/4/2022</b>	SeqNo: <b>3278043</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	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.5		10.00		75.2	21	129			

Sample ID: <b>MB-70784</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70784</b>	RunNo: <b>91780</b>								
Prep Date: <b>10/12/2022</b>	Analysis Date: <b>10/13/2022</b>	SeqNo: <b>3291592</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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2209G22

24-Oct-22

**Client:** NTG Environmental**Project:** Jackson 17

Sample ID: <b>MB-70784</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70784</b>	RunNo: <b>91780</b>								
Prep Date: <b>10/12/2022</b>	Analysis Date: <b>10/13/2022</b>	SeqNo: <b>3291592</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	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		115	21	129			

Sample ID: <b>LCS-70784</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70784</b>	RunNo: <b>91780</b>								
Prep Date: <b>10/12/2022</b>	Analysis Date: <b>10/13/2022</b>	SeqNo: <b>3291593</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	116	46.9	103			S
Surr: DNOP	6.0		5.000		120	21	129			

Sample ID: <b>LCSD-70784</b>	SampType: <b>LCSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS02</b>	Batch ID: <b>70784</b>	RunNo: <b>91780</b>								
Prep Date: <b>10/12/2022</b>	Analysis Date: <b>10/13/2022</b>	SeqNo: <b>3291594</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	15	50.00	0	119	46.9	103	3.06	20	S
Surr: DNOP	5.9		5.000		119	21	129	0	0	

Sample ID: <b>LCS-70784</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70784</b>	RunNo: <b>91846</b>								
Prep Date: <b>10/12/2022</b>	Analysis Date: <b>10/14/2022</b>	SeqNo: <b>3293516</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	117	64.4	127			
Surr: DNOP	6.1		5.000		122	21	129			

Sample ID: <b>LCSD-70784</b>	SampType: <b>LCSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS02</b>	Batch ID: <b>70784</b>	RunNo: <b>91846</b>								
Prep Date: <b>10/12/2022</b>	Analysis Date: <b>10/14/2022</b>	SeqNo: <b>3293517</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	117	64.4	127	0.0411	20	
Surr: DNOP	6.0		5.000		119	21	129	0	0	

**Qualifiers:**

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

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

WO#: 2209G22

24-Oct-22

**Client:** NTG Environmental**Project:** Jackson 17

Sample ID: <b>LCS-70879</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70879</b>		RunNo: <b>91878</b>							
Prep Date: <b>10/17/2022</b>	Analysis Date: <b>10/18/2022</b>		SeqNo: <b>3294924</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	15	50.00	0	114	64.4	127			
Surr: DNOP	6.0		5.000		121	21	129			

Sample ID: <b>LCSD-70879</b>	SampType: <b>LCSD</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>70879</b>		RunNo: <b>91878</b>							
Prep Date: <b>10/17/2022</b>	Analysis Date: <b>10/18/2022</b>		SeqNo: <b>3294925</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	107	64.4	127	6.07	20	
Surr: DNOP	5.7		5.000		113	21	129	0	0	

Sample ID: <b>MB-70879</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70879</b>		RunNo: <b>91878</b>							
Prep Date: <b>10/17/2022</b>	Analysis Date: <b>10/18/2022</b>		SeqNo: <b>3294926</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	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	14		10.00		142	21	129			S

**Qualifiers:**

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

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

WO#: 2209G22

24-Oct-22

**Client:** NTG Environmental**Project:** Jackson 17

Sample ID: <b>lcs-70502</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>70502</b>				RunNo: <b>91437</b>					
Prep Date: <b>9/29/2022</b>	Analysis Date: <b>10/1/2022</b>				SeqNo: <b>3275452</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	94.1	72.3	137			
Surr: BFB	2200		1000		221	37.7	212			S

Sample ID: <b>mb-70502</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>PBS</b>	Batch ID: <b>70502</b>				RunNo: <b>91437</b>					
Prep Date: <b>9/29/2022</b>	Analysis Date: <b>10/1/2022</b>				SeqNo: <b>3275453</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	1100		1000		105	37.7	212			

**Qualifiers:**

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

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

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

WO#: 2209G22

24-Oct-22

**Client:** NTG Environmental**Project:** Jackson 17

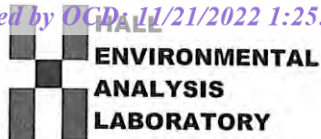
Sample ID: <b>lcs-70502</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>70502</b>			RunNo: <b>91437</b>						
Prep Date: <b>9/29/2022</b>	Analysis Date: <b>10/1/2022</b>			SeqNo: <b>3275480</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.9	80	120			
Toluene	0.94	0.050	1.000	0	94.1	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.9	70	130			

Sample ID: <b>mb-70502</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>70502</b>			RunNo: <b>91437</b>						
Prep Date: <b>9/29/2022</b>	Analysis Date: <b>10/1/2022</b>			SeqNo: <b>3275481</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	0.96		1.000		95.7	70	130			

**Qualifiers:**

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





## Sample Log-In Check List

Client Name: NTG Environmental

Work Order Number: 2209G22

RcptNo: 1

Received By: Juan Rojas

9/29/2022 7:30:00 AM

*Juan Rojas*

Completed By: Tracy Casarrubias

9/29/2022 10:23:55 AM

Reviewed By:

*WPC 9.29.22***Chain of Custody**

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

**Log In**

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  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: \_\_\_\_\_

*TO*  
*9/29/22*

**Special Handling (if applicable)**

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			









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October 03, 2022

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: JACKSON #17

Enclosed are the results of analyses for samples received by the laboratory on 09/30/22 12:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/30/2022  
 Reported: 10/03/2022  
 Project Name: JACKSON #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 9 (H224568-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83	
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46	
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83	
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50	
Total BTX	<0.300	0.300	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/03/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	211	105	200	6.40	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/30/2022  
 Reported: 10/03/2022  
 Project Name: JACKSON #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH - 20 (H224568-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTX	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	10/03/2022	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	211	105	200	6.40	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	204	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/30/2022  
 Reported: 10/03/2022  
 Project Name: JACKSON #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH - 21 (H224568-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTEx	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4920	16.0	10/03/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	5.64	
DRO >C10-C28*	29.4	10.0	10/01/2022	ND	231	115	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 09/30/2022  
Reported: 10/03/2022  
Project Name: JACKSON #17  
Project Number: 226256  
Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 16 (H224568-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTX	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	10/03/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	5.64	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	231	115	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 125 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/30/2022  
 Reported: 10/03/2022  
 Project Name: JACKSON #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 17 (H224568-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTX	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	10/03/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	5.64	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	231	115	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 116 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/30/2022  
 Reported: 10/03/2022  
 Project Name: JACKSON #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 18 (H224568-06)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/30/2022	ND	1.96	98.0	2.00	7.83	
Toluene*	1.39	0.200	09/30/2022	ND	1.91	95.5	2.00	8.46	GC-NC1
Ethylbenzene*	17.8	0.200	09/30/2022	ND	1.89	94.7	2.00	7.83	
Total Xylenes*	77.8	0.600	09/30/2022	ND	5.78	96.3	6.00	7.50	
Total BTX	96.9	1.20	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 240 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8160	16.0	10/03/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2700	50.0	10/01/2022	ND	208	104	200	5.64	
DRO >C10-C28*	15400	50.0	10/01/2022	ND	231	115	200	1.67	
EXT DRO >C28-C36	2200	50.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 725 % 45.3-161

Surrogate: 1-Chlorooctadecane 285 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/30/2022  
 Reported: 10/03/2022  
 Project Name: JACKSON #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 19 (H224568-07)**

BTEX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/30/2022	ND	1.96	98.0	2.00	7.83	
Toluene*	1.09	0.200	09/30/2022	ND	1.91	95.5	2.00	8.46	GC-NC1
Ethylbenzene*	11.0	0.200	09/30/2022	ND	1.89	94.7	2.00	7.83	
Total Xylenes*	50.1	0.600	09/30/2022	ND	5.78	96.3	6.00	7.50	
Total BTEX	62.2	1.20	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 210 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	10/03/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1590	50.0	10/01/2022	ND	208	104	200	5.64	
DRO >C10-C28*	10000	50.0	10/01/2022	ND	231	115	200	1.67	
EXT DRO >C28-C36	1650	50.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 363 % 45.3-161

Surrogate: 1-Chlorooctadecane 227 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/30/2022  
 Reported: 10/03/2022  
 Project Name: JACKSON #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 20 (H224568-08)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/30/2022	ND	1.96	98.0	2.00	7.83	
<b>Toluene*</b>	<b>0.390</b>	0.200	09/30/2022	ND	1.91	95.5	2.00	8.46	GC-NC1
<b>Ethylbenzene*</b>	<b>9.39</b>	0.200	09/30/2022	ND	1.89	94.7	2.00	7.83	
<b>Total Xylenes*</b>	<b>34.4</b>	0.600	09/30/2022	ND	5.78	96.3	6.00	7.50	
<b>Total BTX</b>	<b>44.2</b>	1.20	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 200 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3880</b>	16.0	10/03/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1120</b>	50.0	10/01/2022	ND	208	104	200	5.64	
<b>DRO &gt;C10-C28*</b>	<b>8960</b>	50.0	10/01/2022	ND	231	115	200	1.67	
<b>EXT DRO &gt;C28-C36</b>	<b>1480</b>	50.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 402 % 45.3-161

Surrogate: 1-Chlorooctadecane 212 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received: 09/30/2022  
Reported: 10/03/2022  
Project Name: JACKSON #17  
Project Number: 226256  
Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 21 (H224568-09)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/30/2022	ND	1.96	98.0	2.00	7.83	
Toluene*	<b>0.526</b>	0.200	09/30/2022	ND	1.91	95.5	2.00	8.46	GC-NC1
Ethylbenzene*	<b>10.8</b>	0.200	09/30/2022	ND	1.89	94.7	2.00	7.83	
Total Xylenes*	<b>43.3</b>	0.600	09/30/2022	ND	5.78	96.3	6.00	7.50	
Total BTX	<b>54.7</b>	1.20	09/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 225 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>2560</b>	16.0	10/03/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>1380</b>	50.0	10/01/2022	ND	208	104	200	5.64	
DRO >C10-C28*	<b>13900</b>	50.0	10/01/2022	ND	231	115	200	1.67	
EXT DRO >C28-C36	<b>2350</b>	50.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 402 % 45.3-161

Surrogate: 1-Chlorooctadecane 275 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received: 09/30/2022  
 Reported: 10/03/2022  
 Project Name: JACKSON #17  
 Project Number: 226256  
 Project Location: EOG - EDDY CO NM

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 22 (H224568-10)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.96	98.0	2.00	7.83		
Toluene*	<0.050	0.050	09/30/2022	ND	1.91	95.5	2.00	8.46		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.89	94.7	2.00	7.83		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.78	96.3	6.00	7.50		
Total BTX	<0.300	0.300	09/30/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/03/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	5.64	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	231	115	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 129 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> NTG Environmental <b>Project Manager:</b> Becky Haskell <b>Address:</b> 701 Tradevents Blvd Suite C <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79706 <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> 225256 <b>Project Owner:</b> EOG <b>Project Name:</b> Jackson #17 <b>Project Location:</b> Eddy Co, NM <b>Sample Name:</b> Jeremy Rich		<b>P.O. #:</b> <b>Company:</b> Direct Bill <b>Attn:</b> to EOG <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>BILL TO</b>			
<b>ANALYSIS REQUEST</b>			
<b>Lab I.D.</b> Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE TIME
	MATRIX PRESERV SAMPLING		
1001508 SW-9 Btl-20 SW-16 SW-17 SW-18 SW-19 SW-20 SW-21 SW-22	C C C C C C C C C C	X X X X X X X X X X	9/30 10:00 9/30 10:02 9/30 10:04 9/30 10:06 9/30 10:08 9/30 10:10 9/30 10:12 9/30 10:14 9/30 10:16 9/30 10:18
BTEX 8021 B TPH 8015 D (GPO/DROMRO) Chloride	X X X X X X X X X		
REMARKS: Report to Amber Griffin, EOG Becky Haskell Jeremy Rich Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C			
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:			
Relinquished By: <i>[Signature]</i> Date: 9/30/20 Received By: <i>[Signature]</i> Date: 9/30/20 Time: 10:00 Observed Temp. °C: 27.9 Corrected Temp. °C: 27.3 Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <i>[Signature]</i> Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #113 Correction Factor -0.6°C Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C			



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October 24, 2022

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: JACKSON B #17 FLOWLINE AREA #2

Enclosed are the results of analyses for samples received by the laboratory on 10/20/22 8:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/20/2022	Sampling Date:	10/19/2022
Reported:	10/24/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	Cool & Intact
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH - 22 @ (10') (H224931-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2022	ND	1.99	99.7	2.00	4.85	
Toluene*	<0.050	0.050	10/22/2022	ND	2.12	106	2.00	4.19	
Ethylbenzene*	<0.050	0.050	10/22/2022	ND	1.98	99.1	2.00	4.36	
Total Xylenes*	<0.150	0.150	10/22/2022	ND	5.97	99.6	6.00	5.24	
Total BTEX	<0.300	0.300	10/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/21/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2022	ND	216	108	200	12.7	
DRO >C10-C28*	<10.0	10.0	10/21/2022	ND	204	102	200	7.34	
EXT DRO >C28-C36	<10.0	10.0	10/21/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/20/2022	Sampling Date:	10/19/2022
Reported:	10/24/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	Cool & Intact
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH - 23 @ (8') (H224931-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2022	ND	1.99	99.7	2.00	4.85		
Toluene*	<0.050	0.050	10/22/2022	ND	2.12	106	2.00	4.19		
Ethylbenzene*	<0.050	0.050	10/22/2022	ND	1.98	99.1	2.00	4.36		
Total Xylenes*	<0.150	0.150	10/22/2022	ND	5.97	99.6	6.00	5.24		
Total BTEx	<0.300	0.300	10/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	10/21/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2022	ND	216	108	200	12.7	
DRO >C10-C28*	130	10.0	10/21/2022	ND	204	102	200	7.34	
EXT DRO >C28-C36	34.6	10.0	10/21/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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November 01, 2022

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: JACKSON B #17 FLOWLINE AREA #2

Enclosed are the results of analyses for samples received by the laboratory on 10/28/22 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received:	10/28/2022	Sampling Date:	10/28/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	Cool & Intact
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: ( 10' - 15' ) SW- 21A (H225097-01)**

BTEX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.4	2.00	1.70	
Toluene*	<0.050	0.050	10/31/2022	ND	2.16	108	2.00	1.45	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	101	2.00	1.80	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.38	
Total BTEX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	217	108	200	1.30	
DRO >C10-C28*	39.2	10.0	10/28/2022	ND	220	110	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 82.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received:	10/28/2022	Sampling Date:	10/28/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	Cool & Intact
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: ( 10' - 15' ) SW- 22 (H225097-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.4	2.00	1.70		
Toluene*	<0.050	0.050	10/31/2022	ND	2.16	108	2.00	1.45		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.38		
Total BTEX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	10/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	217	108	200	1.30	
DRO >C10-C28*	72.0	10.0	10/28/2022	ND	220	110	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 73.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/28/2022	Sampling Date:	10/28/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	Cool & Intact
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW- 23 ( 10'-15' ) (H225097-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.4	2.00	1.70		
Toluene*	<0.050	0.050	10/31/2022	ND	2.16	108	2.00	1.45		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.38		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	217	108	200	1.30	
DRO >C10-C28*	58.4	10.0	10/28/2022	ND	220	110	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 93.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/28/2022	Sampling Date:	10/28/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	Cool & Intact
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW- 24 ( 10'-15' ) (H225097-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.4	2.00	1.70		
Toluene*	<0.050	0.050	10/31/2022	ND	2.16	108	2.00	1.45		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.38		
Total BTX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	217	108	200	1.30	
DRO >C10-C28*	14.1	10.0	10/28/2022	ND	220	110	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/28/2022	Sampling Date:	10/28/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	Cool & Intact
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW- 25 ( 10'-15' ) (H225097-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.4	2.00	1.70		
Toluene*	<0.050	0.050	10/31/2022	ND	2.16	108	2.00	1.45		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.38		
Total BTEx	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	217	108	200	1.30	
DRO >C10-C28*	418	10.0	10/28/2022	ND	220	110	200	0.330	
EXT DRO >C28-C36	97.8	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 150 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/28/2022	Sampling Date:	10/28/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	Cool & Intact
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW- 26 ( 10'-15' ) (H225097-06)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.4	2.00	1.70		
Toluene*	<0.050	0.050	10/31/2022	ND	2.16	108	2.00	1.45		
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	101	2.00	1.80		
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.38		
Total BTX	<0.300	0.300	10/31/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/28/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	217	108	200	1.30	
DRO >C10-C28*	170	10.0	10/28/2022	ND	220	110	200	0.330	
EXT DRO >C28-C36	47.8	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/28/2022	Sampling Date:	10/28/2022
Reported:	11/01/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	Cool & Intact
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH- 24 ( 25' ) (H225097-07)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2022	ND	1.97	98.4	2.00	1.70	
Toluene*	<0.050	0.050	10/31/2022	ND	2.16	108	2.00	1.45	
Ethylbenzene*	<0.050	0.050	10/31/2022	ND	2.03	101	2.00	1.80	
Total Xylenes*	<0.150	0.150	10/31/2022	ND	6.16	103	6.00	2.38	
Total BTX	<0.300	0.300	10/31/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1400	16.0	10/28/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/28/2022	ND	217	108	200	1.30	
DRO >C10-C28*	232	10.0	10/28/2022	ND	220	110	200	0.330	
EXT DRO >C28-C36	37.8	10.0	10/28/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

## ANALYSIS REQUEST

<b>Company Name:</b> NTGE <b>Project Manager:</b> Becky Haskell <b>Address:</b> 701 Tradwinds Blvd. Suite C <b>City:</b> Midland <b>Phone #:</b> 432-766-1918 <b>Fax #:</b> <b>Project #:</b> 226201 <b>Project Name:</b> Jackson B #17 Flowline Area #2 <b>Project Location:</b> Eddy Co, NM <b>Sample Name:</b> FOR LAB USE ONLY		<b>P.O. #:</b> <b>Company:</b> EOG <b>Attn:</b> Chase Settle <b>Address:</b> <b>City:</b> <b>State:</b> Zip: <b>Phone #:</b> <b>Fax #:</b>	
<b>Lab I.D.</b> H285071		<b>Sample I.D.</b>	
1 (10'-15') SW-21A 2 (10'-15') SW-22 3 SW-23 (10'-15') 4 SW-24 (10'-15') 5 SW-25 (10'-15') 6 SW-26 (10'-15') 7 BH-24 (25')		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	
10/20/22 1110 1120 1130 1140 1150 1200		DATE TIME	
BTEX 8021B TPH 8015M (GRO / DRO / MRO) Chloride 4500		SAMPLING	
<b>PLEASE NOTE:</b> Liability and Damages Cardholder's liability and client's exclusive remedy for any claim arising under this contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardholder be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>All Results are emailed. Please provide Email address:</b>	
<b>Relinquished By:</b> Nicole Hart <b>Date:</b> 10/20/22 <b>Time:</b> 12:05 <b>Received By:</b> [Signature] <b>Date:</b> 10/20/22 <b>Time:</b>		<b>REMARKS:</b> Email: Becky Haskell, Chase Settle and Amber Griffin, Gordon Banks	
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:		<b>Observed Temp. °C:</b> 4.7 <b>Corrected Temp. °C:</b> 4.1 <b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <b>CHECKED BY:</b> [Signature] <b>Turnaround Time:</b> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> <b>Thermometer ID #113</b> <b>Correction Factor -0.5°C</b> <b>Bacteria (only) Sample Condition:</b> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C	



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November 04, 2022

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: JACKSON B #17 FLOWLINE AREA #2

Enclosed are the results of analyses for samples received by the laboratory on 10/31/22 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 4A (H225114-01)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.10	
<b>DRO &gt;C10-C28*</b>	<b>542</b>	10.0	11/02/2022	ND	177	88.7	200	3.39	
<b>EXT DRO &gt;C28-C36</b>	<b>206</b>	10.0	11/02/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	98.4 %	45.3-161							
Surrogate: 1-Chlorooctadecane	143 %	46.3-178							

**Sample ID: SW - 8A (H225114-02)**

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.10	
<b>DRO &gt;C10-C28*</b>	<b>82.0</b>	10.0	11/02/2022	ND	177	88.7	200	3.39	
<b>EXT DRO &gt;C28-C36</b>	<b>30.4</b>	10.0	11/02/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	98.7 %	45.3-161							
Surrogate: 1-Chlorooctadecane	114 %	46.3-178							

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH - 25 (4') (H225114-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/01/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 123 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 27 (H225114-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/01/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	11.5	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	11.4	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 28 (H225114-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/01/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 132 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 29 (H225114-06)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/01/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 132 % 46.3-178

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/04/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 30 (H225114-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/01/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTGE		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Becky Haskell		Company: EOG					
Address: 701 Tradwinds Blvd. Suite C		Attn: Chase Settle					
City: Midland		Address:					
Phone #: 432-766-1918		City:					
Fax #: 432-766-1918		State: TX					
Project #: 226201		Project Owner: EOG					
Project Name: Jackson B #17 Flowline Area #2		State: Zip:					
Project Location: Eddy Co, NM		Phone #:					
Sample Name:		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS	
H225114		SW-4A		GROUNDWATER		WASTEWATER	
1		SW-8A		SOIL		OIL	
2		BH-25 (41)		SLUDGE		OTHER :	
3		SW-a7		ACID/BASE:		ICE / COOL	
4		SW-a8		OTHER :		DATE	
5		SW-a9		DATE		TIME	
6		SW-30		10/31/22		12:00	
7				10/31/22		12:10	
				10/31/22		12:20	
				10/31/22		12:30	
				10/31/22		12:40	
				10/31/22		12:50	
				10/31/22		13:00	
				10/31/22		13:10	
				10/31/22		13:20	
				10/31/22		13:30	
				10/31/22		13:40	
				10/31/22		13:50	
				10/31/22		14:00	
				10/31/22		14:10	
				10/31/22		14:20	
				10/31/22		14:30	
				10/31/22		14:40	
				10/31/22		14:50	
				10/31/22		15:00	
				10/31/22		15:10	
				10/31/22		15:20	
				10/31/22		15:30	
				10/31/22		15:40	
				10/31/22		15:50	
				10/31/22		16:00	
				10/31/22		16:10	
				10/31/22		16:20	
				10/31/22		16:30	
				10/31/22		16:40	
				10/31/22		16:50	
				10/31/22		17:00	
				10/31/22		17:10	
				10/31/22		17:20	
				10/31/22		17:30	
				10/31/22		17:40	
				10/31/22		17:50	
				10/31/22		18:00	
				10/31/22		18:10	
				10/31/22		18:20	
				10/31/22		18:30	
				10/31/22		18:40	
				10/31/22		18:50	
				10/31/22		19:00	
				10/31/22		19:10	
				10/31/22		19:20	
				10/31/22		19:30	
				10/31/22		19:40	
				10/31/22		19:50	
				10/31/22		20:00	
				10/31/22		20:10	
				10/31/22		20:20	
				10/31/22		20:30	
				10/31/22		20:40	
				10/31/22		20:50	
				10/31/22		21:00	
				10/31/22		21:10	
				10/31/22		21:20	
				10/31/22		21:30	
				10/31/22		21:40	
				10/31/22		21:50	
				10/31/22		22:00	
				10/31/22		22:10	
				10/31/22		22:20	
				10/31/22		22:30	
				10/31/22		22:40	
				10/31/22		22:50	
				10/31/22		23:00	
				10/31/22		23:10	
				10/31/22		23:20	
				10/31/22		23:30	
				10/31/22		23:40	
				10/31/22		23:50	
				10/31/22		24:00	
				10/31/22		24:10	
				10/31/22		24:20	
				10/31/22		24:30	
				10/31/22		24:40	
				10/31/22		24:50	
				10/31/22		25:00	
				10/31/22		25:10	
				10/31/22		25:20	
				10/31/22		25:30	
				10/31/22		25:40	
				10/31/22		25:50	
				10/31/22		26:00	
				10/31/22		26:10	
				10/31/22		26:20	
				10/31/22		26:30	
				10/31/22		26:40	
				10/31/22		26:50	
				10/31/22		27:00	
				10/31/22		27:10	
				10/31/22		27:20	
				10/31/22		27:30	
				10/31/22		27:40	
				10/31/22		27:50	
				10/31/22		28:00	
				10/31/22		28:10	
				10/31/22		28:20	
				10/31/22		28:30	
				10/31/22		28:40	
				10/31/22		28:50	
				10/31/22		29:00	
				10/31/22		29:10	
				10/31/22		29:20	
				10/31/22		29:30	
				10/31/22		29:40	
				10/31/22		29:50	
				10/31/22		30:00	
				10/31/22		30:10	
				10/31/22		30:20	
				10/31/22		30:30	
				10/31/22		30:40	
				10/31/22		30:50	
				10/31/22		31:00	
				10/31/22		31:10	
				10/31/22		31:20	
				10/31/22		31:30	
				10/31/22		31:40	
				10/31/22		31:50	
				10/31/22		32:00	
				10/31/22		32:10	
				10/31/22		32:20	
				10/31/22		32:30	
				10/31/22		32:40	
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				10/31/22		33:30	
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				10/31/22		34:10	
				10/31/22		34:20	
				10/31/22		34:30	
				10/31/22		34:40	
				10/31/22		34:50	
				10/31/22		35:00	
				10/31/22		35:10	
				10/31/22		35:20	
				10/31/22		35:30	
				10/31/22		35:40	
				10/31/22		35:50	
				10/31/22		36:00	
				10/31/22		36:10	
				10/31/22		36:20	
				10/31/22		36:30	
				10/31/22		36:40	
				10/31/22		36:50	
				10/31/22		37:00	
				10/31/22		37:10	
				10/31/22		37:20	
				10/31/22		37:30	
				10/31/22		37:40	
				10/31/22		37:50	
				10/31/22		38:00	
				10/31/22		38:10	
				10/31/22		38:20	
				10/31/22		38:30	
				10/31/22		38:40	
				10/31/22		38:50	
				10/31/22		39:00	
				10/31/22		39:10	
				10/31/22		39:20	
				10/31/22		39:30	
				10/31/22		39:40	
				10/31/22		39:50	
				10/31/22		40:00	
				10/31/22		40:10	
				10/31/22		40:20	
				10/31/22		40:30	
				10/31/22		40:40	
				10/31/22		40:50	
				10/31/22		41:00	
				10/31/22		41:10	
				10/31/22		41:20	
				10/31/22		41:30	
				10/31/22		41:40	
				10/31/22		41:50	
				10/31/22		42:00	
				10/31/22		42:10	
				10/31/22		42:20	
				10/31/22		42:30	
				10/31/22		42:40	
				10/31/22		42:50	
				10/31/22		43:00	
				10/31/22		43:10	
				10/31/22		43:20	
				10/31/22		43:30	
				10/31/22		43:40	
				10/31/22		43:50	
				10/31/22		44:00	
				10/31/22		44:10	
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				10/31/22		44:50	
				10/31/22		45:00	
				10/31/22		45:10	
				10/31/22		45:20	
				10/31/22		45:30	
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				10/31/22		46:00	
				10/31/22</			



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November 03, 2022

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: JACKSON B #17 FLOWLINE AREA #2

Enclosed are the results of analyses for samples received by the laboratory on 11/02/22 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/02/2022	Sampling Date:	11/02/2022
Reported:	11/03/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH- 26 ( 25' ) (H225159-01)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2022	ND	1.82	91.1	2.00	0.221		
Toluene*	<0.050	0.050	11/03/2022	ND	2.06	103	2.00	0.371		
Ethylbenzene*	<0.050	0.050	11/03/2022	ND	2.07	103	2.00	0.629		
Total Xylenes*	<0.150	0.150	11/03/2022	ND	6.30	105	6.00	1.09		
Total BTEX	<0.300	0.300	11/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	196	97.9	200	0.950	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	184	92.0	200	0.902	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/02/2022	Sampling Date:	11/02/2022
Reported:	11/03/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH- 27 ( 25' ) (H225159-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2022	ND	1.82	91.1	2.00	0.221	
Toluene*	<0.050	0.050	11/03/2022	ND	2.06	103	2.00	0.371	
Ethylbenzene*	<0.050	0.050	11/03/2022	ND	2.07	103	2.00	0.629	
Total Xylenes*	<0.150	0.150	11/03/2022	ND	6.30	105	6.00	1.09	
Total BTEX	<0.300	0.300	11/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	196	97.9	200	0.950	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	184	92.0	200	0.902	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/02/2022	Sampling Date:	11/02/2022
Reported:	11/03/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 31 (H225159-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2022	ND	1.82	91.1	2.00	0.221		
Toluene*	<0.050	0.050	11/03/2022	ND	2.06	103	2.00	0.371		
Ethylbenzene*	<0.050	0.050	11/03/2022	ND	2.07	103	2.00	0.629		
Total Xylenes*	<0.150	0.150	11/03/2022	ND	6.30	105	6.00	1.09		
Total BTEx	<0.300	0.300	11/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	196	97.9	200	0.950	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	184	92.0	200	0.902	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/02/2022	Sampling Date:	11/02/2022
Reported:	11/03/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 32 (H225159-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2022	ND	1.82	91.1	2.00	0.221		
Toluene*	<0.050	0.050	11/03/2022	ND	2.06	103	2.00	0.371		
Ethylbenzene*	<0.050	0.050	11/03/2022	ND	2.07	103	2.00	0.629		
Total Xylenes*	<0.150	0.150	11/03/2022	ND	6.30	105	6.00	1.09		
Total BTEx	<0.300	0.300	11/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	196	97.9	200	0.950	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	184	92.0	200	0.902	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/02/2022	Sampling Date:	11/02/2022
Reported:	11/03/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 33 (H225159-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2022	ND	1.82	91.1	2.00	0.221		
Toluene*	<0.050	0.050	11/03/2022	ND	2.06	103	2.00	0.371		
Ethylbenzene*	<0.050	0.050	11/03/2022	ND	2.07	103	2.00	0.629		
Total Xylenes*	<0.150	0.150	11/03/2022	ND	6.30	105	6.00	1.09		
Total BTEx	<0.300	0.300	11/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	196	97.9	200	0.950	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	184	92.0	200	0.902	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received:	11/02/2022	Sampling Date:	11/02/2022
Reported:	11/03/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 34 (H225159-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2022	ND	1.82	91.1	2.00	0.221		
Toluene*	<0.050	0.050	11/03/2022	ND	2.06	103	2.00	0.371		
Ethylbenzene*	<0.050	0.050	11/03/2022	ND	2.07	103	2.00	0.629		
Total Xylenes*	<0.150	0.150	11/03/2022	ND	6.30	105	6.00	1.09		
Total BTEx	<0.300	0.300	11/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/02/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2022	ND	196	97.9	200	0.950	
DRO >C10-C28*	<10.0	10.0	11/03/2022	ND	184	92.0	200	0.902	
EXT DRO >C28-C36	<10.0	10.0	11/03/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> NTGE <b>Project Manager:</b> Becky Haskell <b>Address:</b> 701 Tradwinds Blvd. Suite C <b>City:</b> Midland <b>State:</b> TX <b>zip:</b> 79701 5 <b>Phone #:</b> 432-766-1918 <b>Fax #:</b> <b>Project #:</b> 226201 <b>Project Owner:</b> EOG <b>Project Name:</b> Jackson B #17 Flowline Area #2 <b>Project Location:</b> Eddy Co, NM										<b>P.O. #:</b> <b>Company:</b> EOG <b>Attn:</b> Chase Settle <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>																													
<b>Sample Name:</b> FOR LAB USE ONLY										<b>Matrix</b> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										<b>Preserv</b> <b>Sampling</b>																			
<b>Lab I.D.</b> H225159										<b>Sample I.D.</b> BH-26 (25') BH-27 (25') SW-31 SW-32 SW-33 SW-34										DATE TIME 11/2/22 10:15 11/2/22 10:25 11/2/22 10:30 11/2/22 10:40 11/2/22 10:50 11/2/22 10:55										BTEX 8021B TPH 8015M (GRO / DRO / MRO) Chloride 4500									
<b>Relinquished By:</b> Nick Hart										<b>Date:</b> 11-2-22 <b>Time:</b> 12:45 <b>Received By:</b>										<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>All Results are emailed. Please provide Email address:</b>																			
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:										<b>Observed Temp. °C:</b> 24.9 <b>Corrected Temp. °C:</b> 24.3 <b>Sample Condition:</b> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										<b>CHECKED BY:</b> (Initials) Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Sattte Day <input checked="" type="checkbox"/> Correction Factor -0.5°C 24hrs <input checked="" type="checkbox"/> <b>Bacteria (only)</b> <input type="checkbox"/> <b>Cool Intact</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>Observed Temp. °C:</b> <b>Corrected Temp. °C:</b>																			
<b>REMARKS:</b> Email: Becky Haskell, Chase Settle and Amber Griffin, Gordon Banks																																							



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November 08, 2022

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: JACKSON B #17 FLOWLINE AREA #2

Enclosed are the results of analyses for samples received by the laboratory on 11/03/22 11:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/03/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 35 (H225190-01)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2022	ND	1.79	89.5	2.00	2.59	
Toluene*	<0.050	0.050	11/03/2022	ND	2.03	102	2.00	1.52	
Ethylbenzene*	<0.050	0.050	11/03/2022	ND	2.04	102	2.00	1.58	
Total Xylenes*	<0.150	0.150	11/03/2022	ND	6.20	103	6.00	1.44	
Total BTX	<0.300	0.300	11/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	11/04/2022	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2022	ND	183	91.4	200	2.24	
DRO >C10-C28*	<10.0	10.0	11/04/2022	ND	182	91.2	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	11/04/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.2 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/03/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 36 (H225190-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2022	ND	1.79	89.5	2.00	2.59		
Toluene*	<0.050	0.050	11/03/2022	ND	2.03	102	2.00	1.52		
Ethylbenzene*	<0.050	0.050	11/03/2022	ND	2.04	102	2.00	1.58		
Total Xylenes*	<0.150	0.150	11/03/2022	ND	6.20	103	6.00	1.44		
Total BTEx	<0.300	0.300	11/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	11/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2022	ND	183	91.4	200	2.24	
DRO >C10-C28*	<10.0	10.0	11/04/2022	ND	182	91.2	200	0.702	
EXT DRO >C28-C36	<10.0	10.0	11/04/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/03/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 37 (H225190-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2022	ND	2.07	103	2.00	1.74		
Toluene*	<0.050	0.050	11/08/2022	ND	2.12	106	2.00	3.07		
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.08	104	2.00	0.522		
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.41	107	6.00	3.53		
Total BTEx	<0.300	0.300	11/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	205	103	200	3.03	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	228	114	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 96.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/03/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 38 (H225190-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2022	ND	2.07	103	2.00	1.74		
Toluene*	<0.050	0.050	11/08/2022	ND	2.12	106	2.00	3.07		
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.08	104	2.00	0.522		
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.41	107	6.00	3.53		
Total BTEx	<0.300	0.300	11/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	205	103	200	3.03	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	228	114	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/03/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 39 (H225190-05)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2022	ND	2.07	103	2.00	1.74		
Toluene*	<0.050	0.050	11/08/2022	ND	2.12	106	2.00	3.07		
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.08	104	2.00	0.522		
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.41	107	6.00	3.53		
Total BTX	<0.300	0.300	11/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	205	103	200	3.03	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	228	114	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/03/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 40 (H225190-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2022	ND	2.07	103	2.00	1.74		
Toluene*	<0.050	0.050	11/08/2022	ND	2.12	106	2.00	3.07		
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.08	104	2.00	0.522		
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.41	107	6.00	3.53		
Total BTEx	<0.300	0.300	11/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2022	ND	196	97.8	200	1.35	
DRO >C10-C28*	<10.0	10.0	11/06/2022	ND	186	93.1	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	11/06/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/03/2022	Sampling Date:	11/03/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 41 (H225190-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2022	ND	2.07	103	2.00	1.74	
Toluene*	<0.050	0.050	11/08/2022	ND	2.12	106	2.00	3.07	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	2.08	104	2.00	0.522	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	6.41	107	6.00	3.53	
Total BTEx	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/04/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2022	ND	196	97.8	200	1.35	
DRO >C10-C28*	<10.0	10.0	11/06/2022	ND	186	93.1	200	0.414	
EXT DRO >C28-C36	<10.0	10.0	11/06/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>											
<b>Company Name:</b> NTGE											<b>P.O. #:</b>										
<b>Project Manager:</b> Becky Haskell											<b>Company:</b> EOG										
<b>Address:</b> 701 Tradwinds Blvd. Suite C											<b>Attn:</b> Chase Settle										
<b>City:</b> Midland											<b>State:</b> TX	<b>Zip:</b> 79703-5									
<b>Phone #: 432-766-1918</b>											<b>Fax #:</b>										
<b>Project #:</b> 226201											<b>Project Owner:</b> EOG										
<b>Project Name:</b> Jackson B #17 Flowline Area #2											<b>State:</b>	<b>Zip:</b>									
<b>Project Location:</b> Eddy Co., NM											<b>Phone #:</b>										
<b>Sampler Name:</b>											<b>Fax #:</b>										
FOR LAB USE ONLY																					
(G)RAB OR (C)OMP.																					
# CONTAINERS																					
GROUNDWATER WASTEWATER										MATRIX											
										SAMPLES	DATE	TIME									
SOIL OIL SLUDGE OTHER :										PRESERVE											
										SAMPLES	DATE	TIME									
ACID/BASE: ICE / COOL OTHER :										SAMPLING											
										SAMPLES	DATE	TIME									
Lab I.D.  Sample I.D.										BTEX 8021B											
										TPH 8015M (GRO / DRO / MRO)											
										Chloride 4500											

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Reinquisitioned By:	Date:	Time:	Received By:	Turnaround Time:	Verbal Result:	Add'l Phone #:
Nick Hart	11/3/22	11:40	Mina Blackley	Rush Standard	All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Time:	Received By:	Remarks:		
				Amber Griffin, Gordon Banks		

Delivered By: (Circle One)	Observed Temp.: °C	Cool Intact?	Corrected Temp.: °C	Thermometer ID	Correction Factor
UPS Bus Other:	22.9	No Yes No	22.3	#113	-0.5°C
Standard Rush Sample Day		No Yes No			

REMARKS: Bush sample #1 + 2 - 24hrs. 5 TAT - 3-7 hrs.



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November 11, 2022

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: JACKSON B #17 FLOWLINE AREA #2

Enclosed are the results of analyses for samples received by the laboratory on 11/04/22 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received:	11/04/2022	Sampling Date:	11/04/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH - 28 (10') (H225226-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2022	ND	1.91	95.3	2.00	10.3	
Toluene*	<0.050	0.050	11/10/2022	ND	1.97	98.6	2.00	7.62	
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.99	99.6	2.00	7.95	
Total Xylenes*	<0.150	0.150	11/10/2022	ND	6.13	102	6.00	7.00	
Total BTEX	<0.300	0.300	11/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	11/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	215	107	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	202	101	200	6.12	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/04/2022	Sampling Date:	11/04/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH - 29 (10') (H225226-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2022	ND	1.91	95.3	2.00	10.3		
Toluene*	<0.050	0.050	11/10/2022	ND	1.97	98.6	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.99	99.6	2.00	7.95		
Total Xylenes*	<0.150	0.150	11/10/2022	ND	6.13	102	6.00	7.00		
Total BTEx	<0.300	0.300	11/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	215	107	200	1.12	
DRO >C10-C28*	78.7	10.0	11/08/2022	ND	202	101	200	6.12	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 88.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/04/2022	Sampling Date:	11/04/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH - 30 (4') (H225226-03)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2022	ND	1.91	95.3	2.00	10.3		
Toluene*	<0.050	0.050	11/10/2022	ND	1.97	98.6	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.99	99.6	2.00	7.95		
Total Xylenes*	<0.150	0.150	11/10/2022	ND	6.13	102	6.00	7.00		
Total BTEX	<0.300	0.300	11/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	215	107	200	1.12	
DRO >C10-C28*	116	10.0	11/08/2022	ND	202	101	200	6.12	
EXT DRO >C28-C36	17.1	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/04/2022	Sampling Date:	11/04/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: BH - 31 (4') (H225226-04)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2022	ND	1.91	95.3	2.00	10.3		
Toluene*	<0.050	0.050	11/10/2022	ND	1.97	98.6	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.99	99.6	2.00	7.95		
Total Xylenes*	<0.150	0.150	11/10/2022	ND	6.13	102	6.00	7.00		
Total BTX	<0.300	0.300	11/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	11/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	215	107	200	1.12	
DRO >C10-C28*	19.0	10.0	11/08/2022	ND	202	101	200	6.12	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
BECKY HASKELL  
701 TRADEWINDS BLVD. SUITE C  
MIDLAND TX, 79706  
Fax To:

Received:	11/04/2022	Sampling Date:	11/04/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 42 (H225226-05)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2022	ND	1.91	95.3	2.00	10.3	
Toluene*	<0.050	0.050	11/10/2022	ND	1.97	98.6	2.00	7.62	
Ethylbenzene*	<0.050	0.050	11/10/2022	ND	1.99	99.6	2.00	7.95	
Total Xylenes*	<0.150	0.150	11/10/2022	ND	6.13	102	6.00	7.00	
Total BTX	<0.300	0.300	11/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	215	107	200	1.12	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	202	101	200	6.12	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/04/2022	Sampling Date:	11/04/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 43 (H225226-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2022	ND	1.91	95.3	2.00	10.3		
Toluene*	<0.050	0.050	11/11/2022	ND	1.97	98.6	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	7.95		
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.13	102	6.00	7.00		
Total BTEX	<0.300	0.300	11/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/04/2022	Sampling Date:	11/04/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 44 (H225226-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2022	ND	1.91	95.3	2.00	10.3		
Toluene*	<0.050	0.050	11/11/2022	ND	1.97	98.6	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	7.95		
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.13	102	6.00	7.00		
Total BTEx	<0.300	0.300	11/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/08/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.3 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 BECKY HASKELL  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	11/04/2022	Sampling Date:	11/04/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	JACKSON B #17 FLOWLINE AREA #2	Sampling Condition:	** (See Notes)
Project Number:	226201	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

**Sample ID: SW - 45 (H225226-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2022	ND	1.91	95.3	2.00	10.3		
Toluene*	<0.050	0.050	11/11/2022	ND	1.97	98.6	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	7.95		
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.13	102	6.00	7.00		
Total BTEx	<0.300	0.300	11/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	74.1	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	48.2	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.5 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

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Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> NTGE <b>Project Manager:</b> Becky Haskell <b>Address:</b> 701 Tradwinds Blvd. Suite C <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 432-766-1918 <b>Fax #:</b> <b>Project #:</b> 226201 <b>Project Owner:</b> EOG <b>Project Name:</b> Jackson B #17 Flowline Area #2 <b>Project Location:</b> Eddy Co, NM <b>Sample Name:</b>				<b>P.O. #:</b> <b>Company:</b> EOG <b>Attn:</b> Chase Settle <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>			
<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
<b>Lab I.D.</b>				<b>Sample I.D.</b>			
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				DATE TIME		BTEX 8021B TPH 8015M (GRO / DRO / MRO) Chloride 4500	
				MATRIX PRESERV SAMPLING			
1 BH-28 (10') C 1 11/4/22 09:15 X X X							
2 BH-29 (10') C 1 11/4/22 09:20 X X X							
3 BH-30 (4') C 1 11/4/22 09:25 X X X							
4 BH-31 (4') C 1 11/4/22 09:30 X X X							
5 SW-42 C 1 11/4/22 09:35 X X X							
6 SW-43 C 1 11/4/22 09:40 X X X							
7 SW-44 C 1 11/4/22 09:45 X X X							
8 SW-45 C 1 11/4/22 09:50 X X X							

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<b>Relinquished By:</b> Nick Hard <b>Date:</b> 11/4/22 <b>Time:</b> 12:05 <b>Received By:</b> [Signature] <b>Date:</b> 11/4/22 <b>Time:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>All Results are emailed. Please provide Email address:</b>	
<b>Relinquished By:</b> [Signature] <b>Date:</b> 11/4/22 <b>Time:</b>		<b>REMARKS:</b> Email: Becky Haskell, Chase Settle and Amber Griffin, Gordon Banks	
<b>Delivered By:</b> (Circle One) Sample - UPS - Bus - Other:		<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Same Day <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Corrected Temp. °C <input type="checkbox"/>	

**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 160479

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 160479
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Closure Report is approved. Several of the Chain of Custody and Analysis Request forms were not received at proper temperature of 4 deg. Celsius or below. If this occurs in the future, the report will be immediately denied.	2/22/2023