



## **SITE REMEDIATION & CLOSURE REPORT**

**JUDSON AUU STATE COM #2  
UNIT O, SECTION 26, TOWNSHIP 10S, RANGE 34E  
LEA COUNTY, NEW MEXICO  
33.412582, -103.432854  
RANGER REFERENCE NO. 5375**

### **PREPARED FOR:**

**EOG RESOURCES, INC.  
ARTESIA DIVISION  
105 S 4TH STREET  
ARTESIA, NEW MEXICO 88210**

### **PREPARED BY:**

**RANGER ENVIRONMENTAL SERVICES, LLC  
P.O. BOX 201179  
AUSTIN, TEXAS 78720**

**OCTOBER 31, 2022**

A blue ink signature of Patrick K. Finn, consisting of a stylized 'P' followed by a series of loops and a horizontal line.

**Patrick K. Finn, P.G. (TX)  
Project Geoscientist**

A blue ink signature of William Kierdorf, featuring a stylized 'W' followed by several horizontal strokes.

**William Kierdorf, REM  
Project Manager**

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**SITE REMEDIATION & CLOSURE REPORT  
JUDSON AUU STATE COM #2  
UNIT O, SECTION 26, TOWNSHIP 10S, RANGE 34E  
LEA COUNTY, NEW MEXICO  
33.412582, -103.432854  
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## **1.0 SITE LOCATION AND BACKGROUND**

The Judson AUU State Com #2 (Site) is an oil and gas well location historically operated by EOG Resources, Inc. (EOG). The Site reportedly supported an oil/gas well and a tank battery noted to be surrounded by an earthen berm. The on-site well has been plugged and abandoned and the associated facility has been decommissioned and removed from the Site. The Site is located approximately 12.5 miles northwest of Tatum, within Lea County, New Mexico. The facility is situated in Unit O, Section 26, T10S-R34E at GPS coordinates 33.412582, -103.432854.

On September 7, 2017, a release was discovered originating from a hole on the bottom of an aboveground storage tank located at the Site. Approximately 26 barrels of condensate were estimated to be released. Due to the location of the release within the tank battery, all released fluids were noted to be within the tank battery containment area. The incident was reported to the New Mexico Oil Conservation Division (NMOCD) on September 27, 2017 (NMOCD Incident 1RP-4826).

Initial response efforts included the dispatching of an emergency vacuum truck; however, upon arrival no fluids were available for recovery. Initial removal operations were completed within the impact area. On November 7, 2017, a Characterization Plan was submitted to the NMOCD which included details of the release, proposed assessment actions, and proposed treatment and re-use of impacted material at the Site. On March 27, 2018, a Remediation Work Plan was prepared and submitted to the NMOCD to address the impacts at the Site. The initial response from the NMOCD regarding the proposed remedial plan requested that additional assessment activities and review of the site characterization details be performed. On July 26, 2018, the NMOCD approved the remedial strategy as presented by EOG, with conditions of a modified site ranking and RRALs. In December 2018, representatives for EOG conducted additional assessment as well as soil removal and sampling activities at the Site; however, proper documentation and a closure request were not completed and submitted to the NMOCD.

EOG subsequently engaged Ranger Environmental Services, Inc. (Ranger) in June 2021 to assist in the outstanding assessment and remediation efforts at the Site. To assess the historic impact area and determine the appropriate site characterization details, assessment operations were conducted from June 2021 to May 2022. The results of these activities, and the site remediation plan, were provided in Ranger's August 8, 2022 *"Site Characterization and Proposed Remediation Plan."*

To address the elevated soil chemical of concern (COC) concentrations documented at the Site, the remediation plan proposed soil removal operations. Based upon the Site characterization

details, the remediation plan proposed to remediate the site soils to the Table 1 19.15.29.12 NMAC (groundwater <50' feet) criteria. Additionally, the remediation plan proposed to bring the surface to four-foot depth interval into compliance with the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC.

Due to the depth of observed impacts at the Site being greater than 20 feet and internal EOG policies, the excavation plan required oversight by a professional engineer (P.E.) due to the extensive benching and shoring activities that would be required to safely excavate to the anticipated depth of approximately 26 to 30 feet below ground surface (bgs). In addition, since it was estimated that a large volume of clean soil would be excavated during the benching/shoring activities to perform the required removal of approximately 1,500 cubic yards of impacted material, the remediation plan contained provisions to segregate the clean excavated soils from the affected soils for reuse as backfill material at the time of excavation completion. On August 28, 2022, the NMOCD approved the "*Site Characterization and Proposed Remediation Plan*."

A copy of the previously submitted Form C-141 Release Notification and Site Assessment/Characterization and Remediation Plan sections of Form C-141 are attached, as well as the current Form C-141 Closure section.

A Topographic Map and Area Map noting the location of the subject Site and surrounding areas as well as multiple site maps illustrating the excavated areas and sampling locations, are provided in the Figures section.

## 2.0 SITE REMEDIATION

In order to address the impacts at the Site and bring the location into compliance with NMAC 19.15.29, soil removal operations were conducted during September and October, 2022. In order to allow for the segregation of impacted and non-impacted material, the excavation was completed in approximate five-foot lifts. During the soil removal process, Ranger personnel field screened the excavated areas using an organic vapor monitor (OVM) and a field chloride titration kit. The field screening results were utilized to guide the excavation process and assist in determining when the excavation side walls (lateral boundaries) appeared to meet the site closure criteria.

To confirm that appropriate lateral excavation boundaries had been achieved, cleanup confirmation soil samples were subsequently collected from the excavation side walls for laboratory analysis in accordance with NMAC 19.15.29.12 (D) as five-part composite samples representing no more than 200 square feet. Upon laboratory confirmation that the side wall sample analytical results were below the site closure criteria, excavation of soils was completed outside the main excavation within the required benching and shoring areas. The clean materials excavated from the benching/shoring areas were segregated and stockpiled on-site for re-use as backfill. The excavation process was then continued in five-foot lifts as detailed above until the deeper affected soils had all been removed. Upon reaching the terminal depth in the remedial excavation area at approximately 30 feet bgs, grab soil samples were collected in accordance with the proposed sampling strategy outlined in the NMOCD approved "*Site Characterization and Proposed Remediation Plan*."

In the event that any cleanup confirmation soil sample results were found to exceed the site closure criteria, then additional excavation, field screening, and cleanup confirmation sampling activities were conducted until the site closure criteria were attained.



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Upon collection, composite sample parts were placed into new Ziplock® bags, thoroughly mixed, and samples for laboratory analysis were collected from the mixture. All cleanup confirmation soil samples were collected using standard QA/QC procedures, placed into laboratory-supplied containers, and were immediately placed into a sample shuttle containing ice. All cleanup confirmation soil samples were transported to Hall Environmental in Albuquerque, New Mexico for analysis of TPH using EPA Method 8015; BTEX using EPA Method 8021; and, total chloride using EPA Method 300.

Upon completion, the excavated area associated with the remedial activities at the site was primarily rectangular in shape and had maximum dimensions of approximately 40 feet wide by 40 feet long. As detailed above the excavation was completed to maximum depth of approximately 30 feet bgs. Attached are various site maps showing the locations of all cleanup confirmation sampling locations. The final excavated area is depicted in the attached *Final Excavation Area and Confirmation Sample Location Map*.

Upon attainment of the site closure criteria, the excavated area was backfilled utilizing the material generated during the benching and shoring activities outside of the impacted area. The remaining portions of the excavation were backfilled with imported clean fill material in accordance with NMAC 19.15.29.13. Re-vegetation efforts at the Site will be completed in conjunction with the remaining decommissioning and reclamation efforts at the former well pad location.

All affected soils generated during the remedial excavation activities were transported and disposed of at the Gandy Marley, Inc. disposal facility in Chaves County, New Mexico.

### **3.0 SITE CLOSURE REQUEST**

Based on the cleanup confirmation soil sample results, the site has been properly addressed pursuant to NMAC 19.15.29 and EOG respectfully requests closure of the incident. A final C-141 form is attached.

FORM C-141

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  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company EOG Y Resources, Inc.	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 <sup>th</sup> Street	Telephone No. 575-748-1471	
Facility Name Judson AUU State Com #2	Facility Type Battery	

Surface Owner <b>Fee</b>	Mineral Owner State	API No. 30-025-36886
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### LOCATION OF RELEASE

Unit Letter O	Section 26	Township 10S	Range 34E	Feet from the 660	North/South Line South	Feet from the 1980	East/West Line East	County Lea
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Latitude 32.41272 Longitude 103.43251

### NATURE OF RELEASE

Type of Release Condensate	Volume of Release 26 B/C	Volume Recovered 0 B/C
Source of Release Production Tank	Date and Hour of Occurrence 9/7/2017; PM	Date and Hour of Discovery 9/7/2017; PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu/NMOCD I	
By Whom? Robert Asher/ EOG Y Resources	Date and Hour 9/8/2017; AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

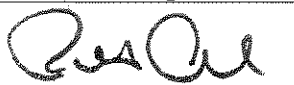

Describe Cause of Problem and Remedial Action Taken.\*

Hole discovered in tank bottom, causing the release. Tank removed.

Describe Area Affected and Cleanup Action Taken.\*

An approximate area of 20'X 20'. The well and valves were closed. The impacted soils under removed tank were excavated and placed on bermed plastic, if applicable in-place remediation will be conducted. Vertical and horizontal delineation samples will be collected and analysis ran for TPH & BTEX. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: <50' (approximately 36', per USGS Groundwater Levels), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 20.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Robert Asher	Approved by Environmental Specialist: 	
Title: Environmental Supervisor	Approval Date: <b>9/27/2017</b>	Expiration Date:
E-mail Address: Robert_Asher@eogresources.com	Conditions of Approval: <b>see attached directive</b>	Attached <input checked="" type="checkbox"/>
Date: September 22, 2017	Phone: 575-748-4217	

\* Attach Additional Sheets If Necessary

1RP-4826

nOY1727031593

pOY1727031945

Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_9/25/2017\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-4826\_\_ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_ on or before \_10/27/2017\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us

Incident ID	nOY1727031593
District RP	1RP-4826
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>~33-36'</u> (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 type="checkbox"/> Yes <input checked="" 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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Incident ID	nOY1727031593
District RP	1RP-4826
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr  
Signature: Chase Settle Date: 08/10/2022  
email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

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



Incident ID	nOY1727031593
District RP	1RP-4826
Facility ID	
Application ID	

## Remediation Plan

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

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

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr  
Signature: Chase Settle Date: 08/10/2022  
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: Bradford Billings Date: 8/24/2022

Incident ID	nOY1727031593
District RP	1RP-4826
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: Chase Settle Title: Rep Safety & Environmental Sr  
Signature: Chase Settle Date: 10/31/2022  
email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: OCD Date: 10/31/2022

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: Ashley Maxwell Date: 2/28/2023  
Printed Name: Ashley Maxwell Title: Environmental Specialist

# **FIGURES**

## **Topographic Map**

### **Area Map**

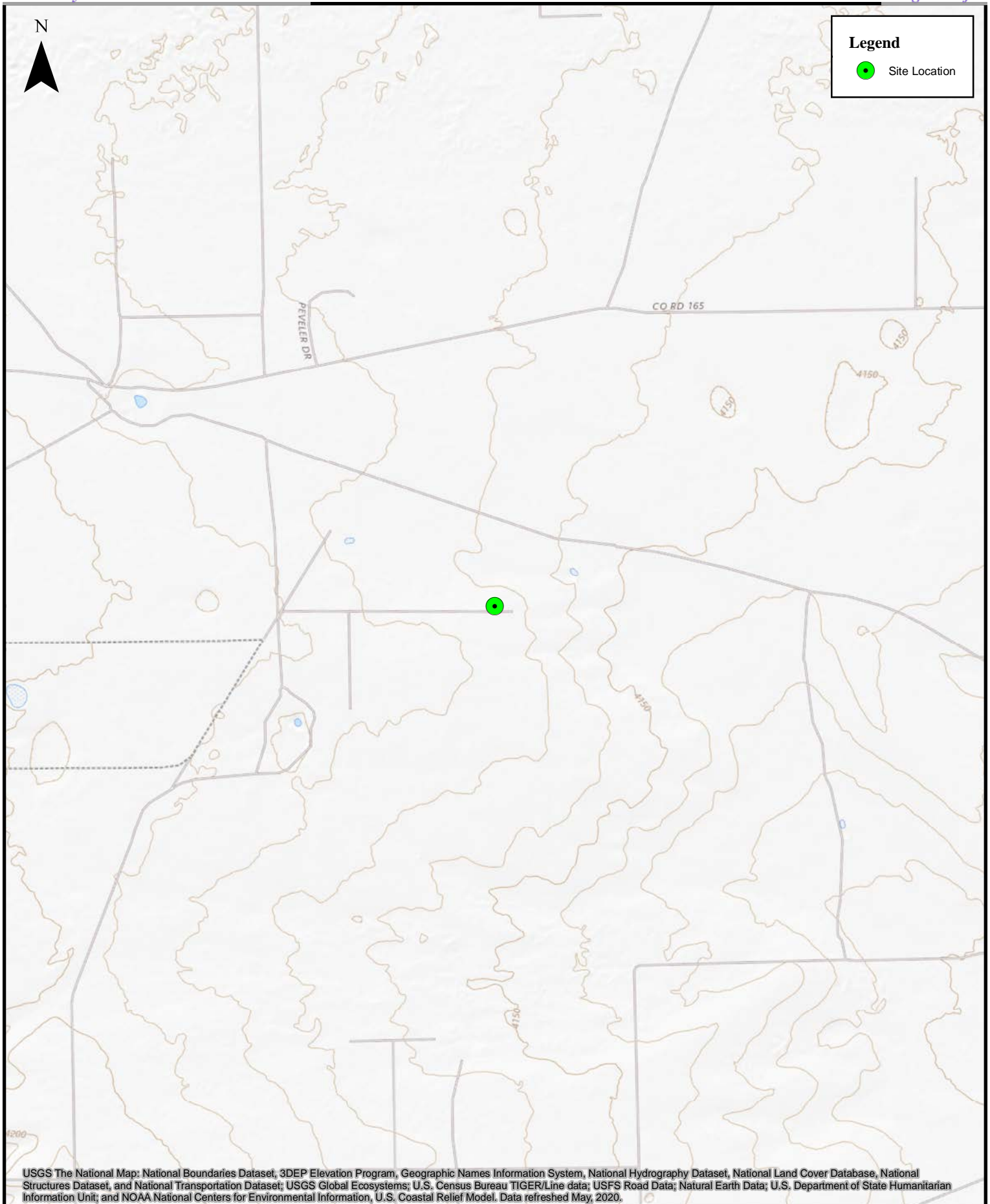
**Excavation Area and Confirmation Sample Location Map (0'-5')**

**Excavation Area and Confirmation Sample Location Map (5'-10')**

**Excavation Area and Confirmation Sample Location Map (10'-15')**

**Excavation Area and Confirmation Sample Location Map (15'-20')**

**Final Excavation Area and Confirmation Sample Location Map (20'-25')**

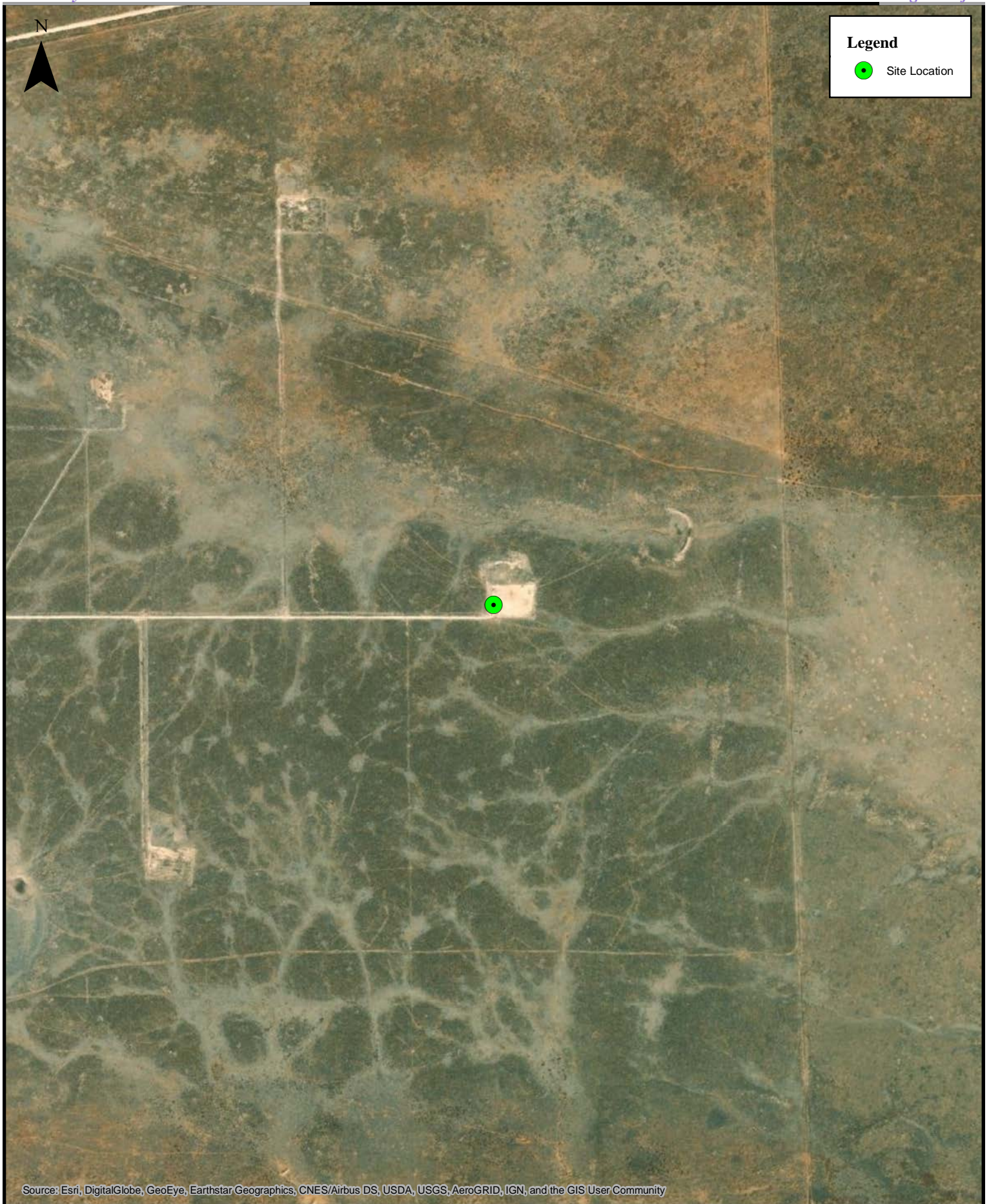


0 600 1,200 2,400 3,600 4,800 Feet

1:24,000

**Topographic Map**  
Judson AUU State Com 2  
EOG Resources, Inc.








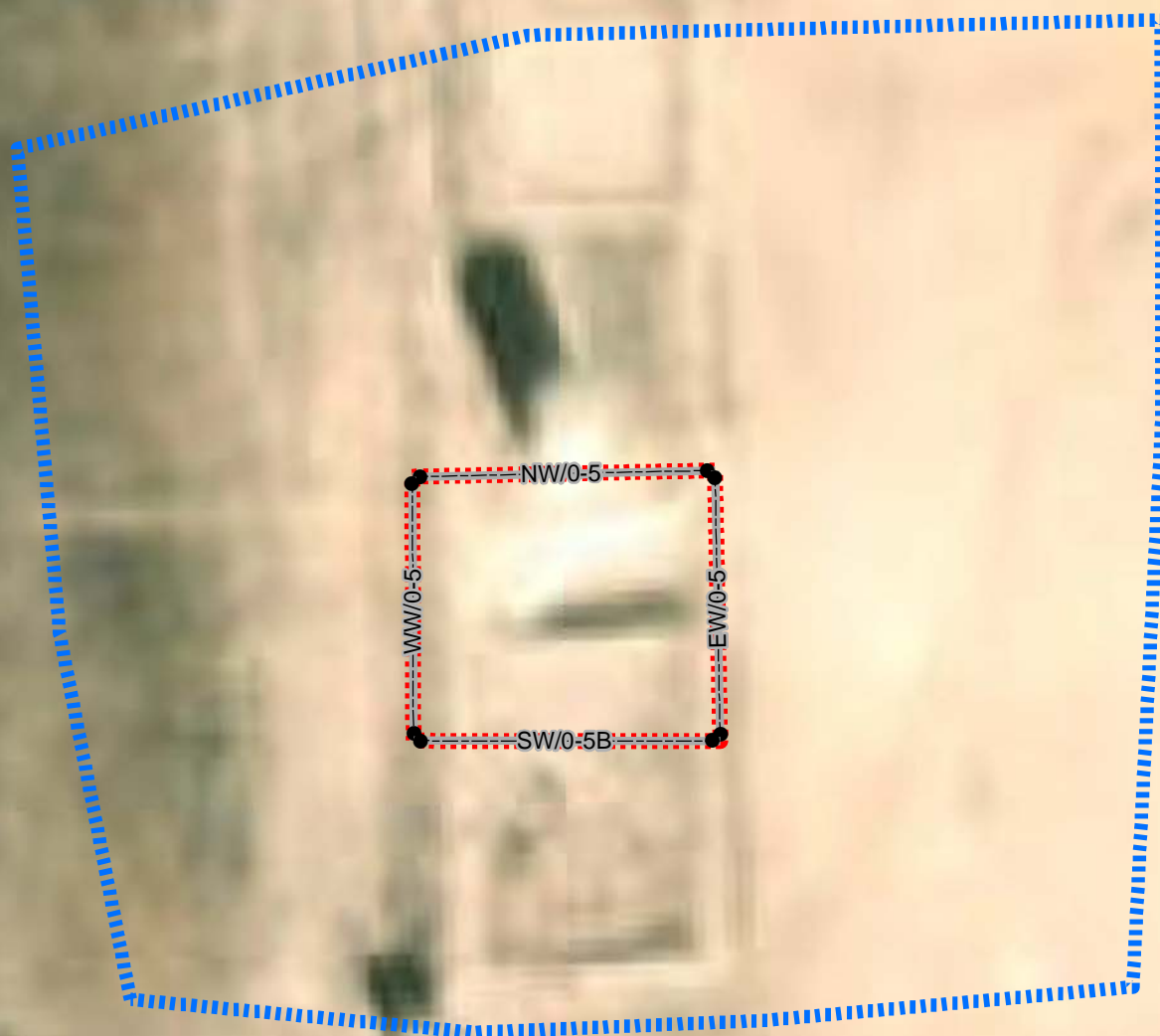
0 250 500 1,000 1,500 2,000 Feet

1:10,000

**Area Map**  
Judson AUU State Com 2  
EOG Resources, Inc.

**Legend**

-  Excavation Wall Samples (0'-5')
-  Remedial Excavation Area Extent (0'-5')
-  Final Excavation Extent (Benching and Shoring Area)

**NOTES:**

1. ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2. AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3. AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.

Image Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Excavation side wall samples were collected in accordance with NMAC 19.15.29.12 (D) as five-part composite samples representative of no more than 200 square feet.



0 5 10 20 30 40  
Feet




1:300

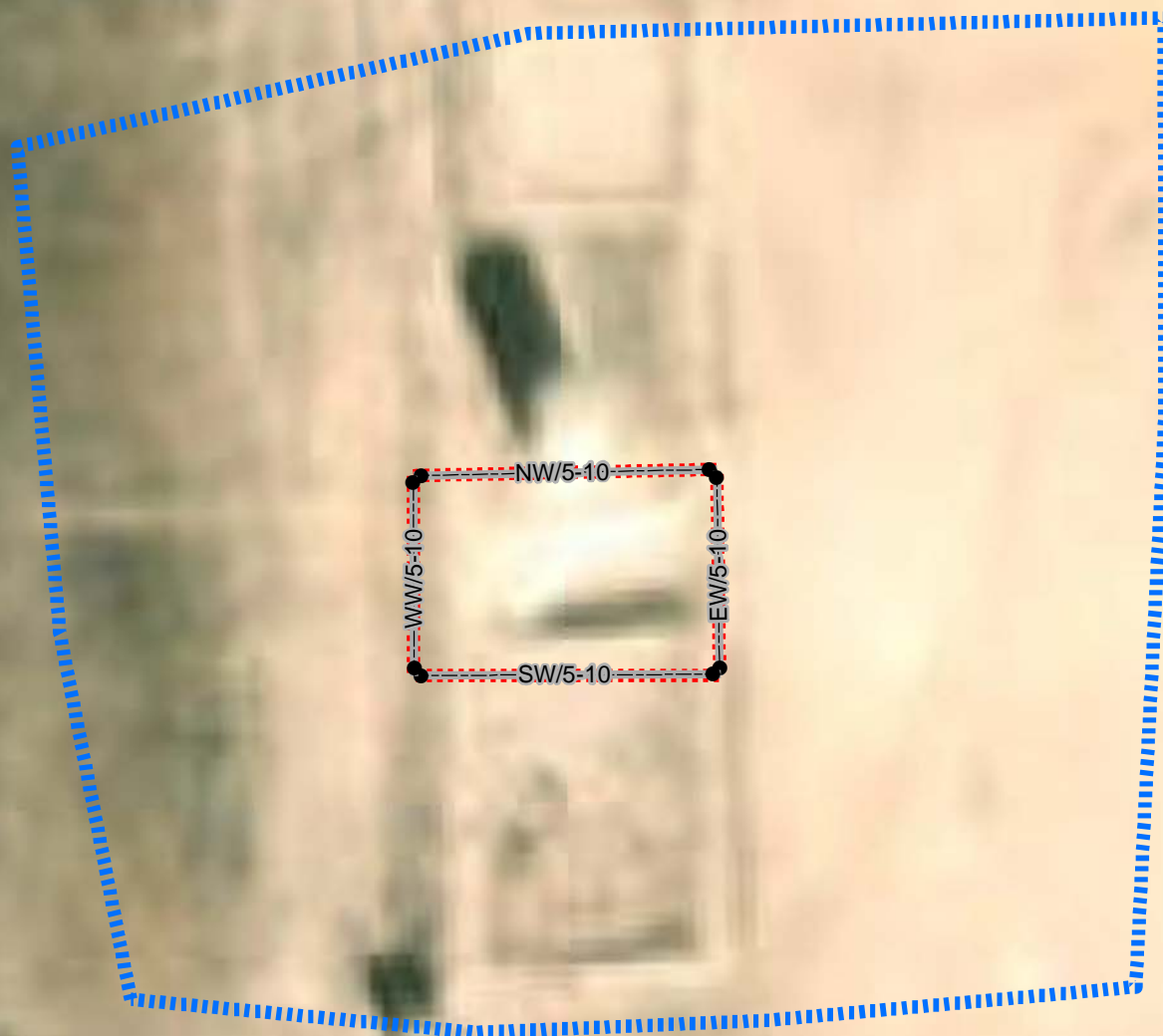
**Excavation Area and Confirmation  
Sample Location Map (0'-5')**

Judson AUU State Com 2  
EOG Resources, Inc.



**Legend**

-  Excavation Wall Samples (5'-10')
-  Remedial Excavation Area Extent (5'-10')
-  Final Excavation Extent (Benching and Shoring Area)

**NOTES:**

1. ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2. AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3. AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.

Image Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Excavation side wall samples were collected in accordance with NMAC 19.15.29.12 (D) as five-part composite samples representative of no more than 200 square feet.



0 5 10 20 30 40  
Feet

1:300

**Excavation Area and Confirmation  
Sample Location Map (5'-10')**

Judson AUU State Com 2  
EOG Resources, Inc.









**Legend**

● Excavation Wall Samples (25'-30')

● Base Sample Location

Remedial Excavation Area Extent (25'-30')



Final Excavation Extent (Benching and Shoring Area)

**Excavation Depth**

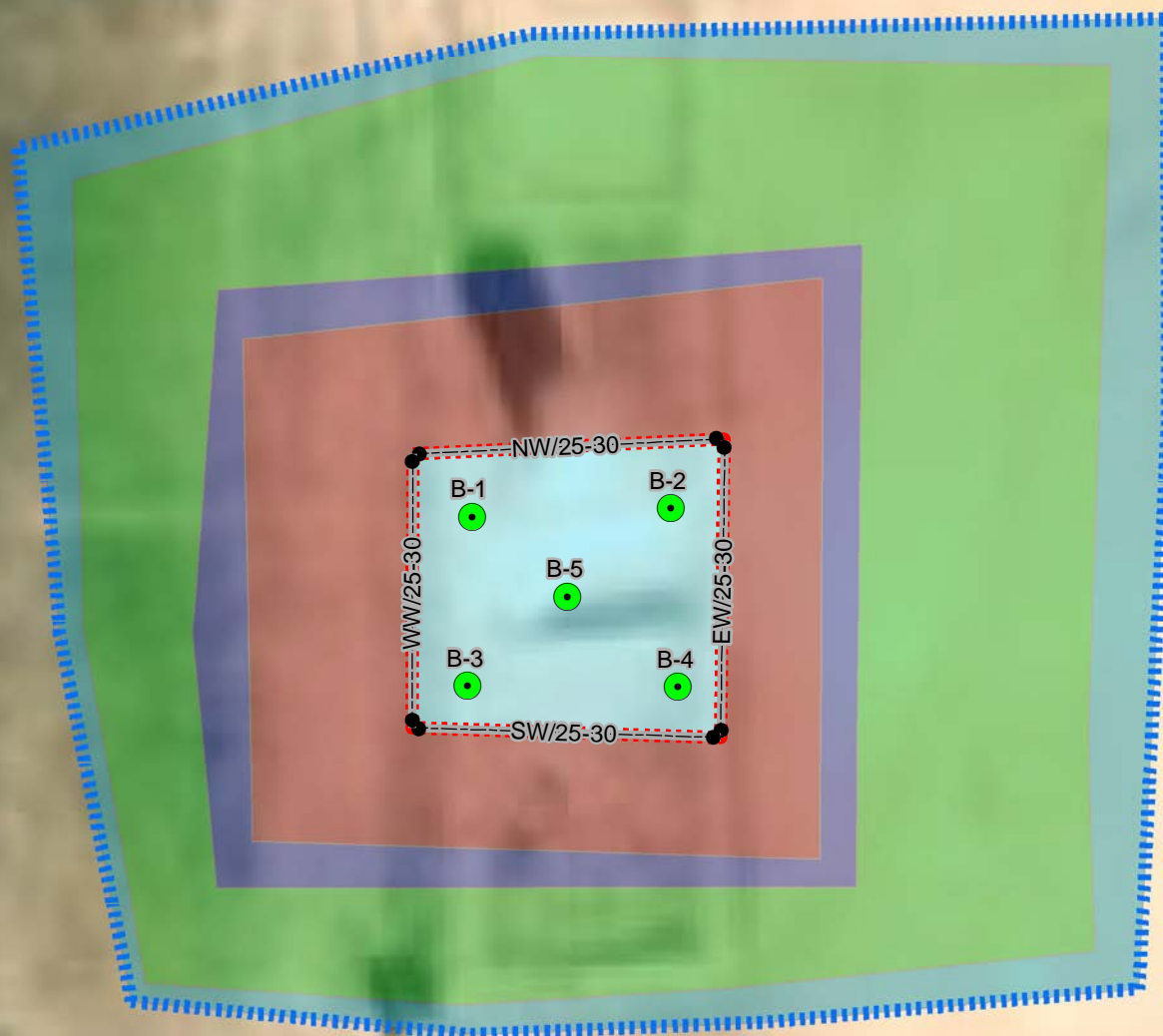
~4' Deep

~8' Deep

~11' Deep

~20' Deep

~30' Deep

**NOTES:**

1. ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.

2. AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.

3. AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.

Image Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Excavation side wall samples were collected in accordance with NMAC 19.15.29.12 (D) as five-part composite samples representative of no more than 200 square feet.



0 5 10 20 30 40  
Feet

1:300

**Final Excavation Area and Confirmation  
Sample Location Map (25'-30')**

Judson AUU State Com 2  
EOG Resources, Inc.

## TABLES

Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride  
(EPA 300) Analytical Data



**CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA**  
**JUDSON AUU STATE COM 2**  
**LEA COUNTY, NEW MEXICO**

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	CHLORIDE
<b>Excavation Side Wall Samples (~0'-5')</b>													
NW/0-5	9/9/2022	0'-5'	<0.11	<0.22	<0.22	<0.45	<0.45	<22	33	<48	33	33	<60
EW/0-5	9/9/2022	0'-5'	<0.020	<0.040	<0.040	<0.079	<0.08	<4.0	<15	<50	<15	<50	110
SW/0-5	9/9/2022	0'-5'	<0.046	<0.033	<0.033	<0.066	<0.07	<3.3	140	130	140	270	<60
SW/0-5A	9/13/2022	0'-5'	<0.047	<0.035	<0.035	<0.069	<0.07	<3.5	79	120	79	199	<60
SW/0-5B	9/16/2022	0'-5'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<14	<48	<14	<48	140
WW/0-5	9/9/2022	0'-5'	<0.13	<0.25	<0.25	<0.51	<0.51	<25	<14	<45	<25	<45	<60
<b>Excavation Side Wall Samples (~5'-10')</b>													
NW/5-10	9/14/2022	5'-10'	<0.020	<0.041	<0.041	<0.081	<0.08	<4.1	<14	<48	<14	<48	<60
EW/5-10	9/14/2022	5'-10'	<0.11	<0.22	<0.22	<0.44	<0.44	<22	63	<49	63	63	<60
SW/5-10	9/14/2022	5'-10'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<14	<46	<14	<46	<60
WW/5-10	9/14/2022	5'-10'	<0.020	<0.040	<0.040	<0.079	<0.08	<4.0	<14	<47	<14	<47	<60
<b>Excavation Side Wall Samples (~10'-15')</b>													
NW/10-15	9/16/2022	10'-15'	<0.095	<0.19	<0.19	<0.38	<0.38	<19	<14	<48	<14	<48	<60
EW/10-15	9/16/2022	10'-15'	<0.093	<0.19	<0.19	8.2	8.2	190	1,800	<240	190	1,990	<60
EW/10-15A	9/20/2022	10'-15'	<0.017	<0.034	<0.034	<0.069	<0.07	<3.4	<15	<49	<15	<49	<60
SW/10-15	10/3/2022	10'-15'	<0.020	<0.040	<0.040	<0.080	<0.08	<4.0	<15	<49	<15	<49	<60
WW/10-15	10/3/2022	10'-15'	<0.019	<0.037	<0.037	<0.075	<0.07	<3.7	<15	<50	<15	<50	110
<b>Excavation Side Wall Samples (~15'-20')</b>													
NW/15-20	9/20/2022	15'-20'	<0.020	<0.039	<0.039	<0.079	<0.08	<3.9	<15	<49	<15	<49	<60
EW/15-20	9/20/2022	15'-20'	<0.020	<0.040	<0.040	<0.080	<0.08	<4.0	<15	<48	<15	<48	<60
SW/15-20	9/20/2022	15'-20'	<0.019	<0.037	<0.037	<0.074	<0.07	<3.7	<15	<50	<15	<50	<60
WW/15-20	9/20/2022	15'-20'	<0.11	<0.21	<0.21	<0.43	<0.43	<21	<15	<48	<21	<48	<60
<b>Excavation Side Wall Samples (~20'-25')</b>													
NW/20-25	10/3/2022	20'-25'	<0.018	<0.036	<0.036	<0.072	<0.07	<3.6	62	<45	62	62	470
EW/20-25	10/3/2022	20'-25'	<0.017	<0.033	<0.033	<0.067	<0.07	<3.3	<14	<48	<14	<48	<60
SW/20-25	10/3/2022	20'-25'	<0.019	<0.037	<0.037	<0.074	<0.07	<3.7	<13	<43	<13	<43	<60
WW/20-25	10/3/2022	20'-25'	<0.020	<0.039	<0.039	<0.078	<0.08	<3.9	<14	<45	<14	<45	<60
<b>Excavation Side Wall Samples (~25'-30')</b>													
NW/25-30	10/14/2022	25'-30'	<0.018	<0.037	<0.037	0.18	0.18	7.1	<14	<48	7.1	7.1	<59
WW/25-30	10/14/2022	25'-30'	<0.082	<0.16	<0.16	0.63	0.63	<16	120	<48	120	120	<60
WW/25-30	10/24/2022	25'-30'	<0.081	<0.16	<0.16	<0.32	<0.32	<16	<14	<45	<14	<45	<60
SW/25-30	10/14/2022	25'-30'	<0.094	0.28	0.26	2.4	2.94	43	71	43	43	114	<60
SW/25-30	10/24/2022	25'-30'	<0.070	<0.14	<0.14	<0.28	<0.28	<14	<12	<40	<14	<40	<60
EW/25-30	10/14/2022	25'-30'	<0.086	<0.17	<0.17	1.0	1.0	<17	130	<46	130	130	<60
EW/25-30	10/24/2022	25'-30'	<0.069	<0.14	<0.14	<0.28	<0.28	<14	<14	<45	<14	<45	<59
<b>Excavation Base Soil Samples (~30')</b>													
B-1	10/7/2022	30'	<0.067	<0.13	<0.13	<0.27	<0.27	<13	<15	<50	<15	<50	<60
B-2	10/7/2022	30'	0.025	<0.049	<0.049	<0.097	0.025	<4.9	<14	<46	<14	<46	<60
B-3	10/7/2022	30'	0.086	<0.033	<0.033	0.084	0.170	<3.3	<15	<49	<15	<49	<60
B-4	10/7/2022	30'	0.024	<0.042	<0.042	<0.085	0.024	<4.2	<15	<50	<15	<50	<60
B-5	10/7/2022	30'	<0.022	<0.044	<0.044	<0.087	<0.09	<4.4	<14	<48	<14	<48	<60
<b>19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤50')</b>													
			10	---	---	---	50	---	---	---	---	100	600
<b>19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)</b>			10 <sup>3</sup>				50 <sup>3</sup>					100 <sup>3</sup>	600

## Notes:

- Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
- Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
- Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document *Procedures for the Implementation of the Spill Rule* (19.15.29 NMAC) dated September 6, 2019.
- NA - Not Analyzed

ATTACHMENT 1

PHOTOGRAPHIC DOCUMENTATION





**PHOTOGRAPH NO. 1– A view of the site during the excavation process on September 16, 2022. The view is towards the south.**

*(Approximate GPS: 33.412642, -103.432904)*



**PHOTOGRAPH NO. 2 – A view of the site during the excavation process on October 3, 2022. The view is towards the west.**

*(Approximate GPS: 33.412644, -103.432596)*





**PHOTOGRAPH NO. 3 – A view of the excavation area upon completion of the remedial excavation process. The view is towards the northwest.**

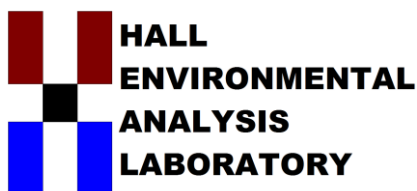
(Approximate GPS: 33.412481, -103.432603)



**PHOTOGRAPH NO. 4 – An additional view of the excavation area upon completion of the remedial excavation process. The view is towards the southeast.**

(Approximate GPS: 33.412800, -103.433009)

## ATTACHEMENT 2 - LABORATORY ANALYTICAL REPORTS



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 15, 2022

Will Kierdorf  
EOG  
105 South Fourth Street  
Artesia, NM 88210  
TEL:  
FAX:

RE: Judson AUU State COM 2

OrderNo.: 2209487

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/10/2022 for the analyses presented in the following report.

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2209487

Date Reported: 9/15/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW/0-5

Project: Judson AUU State COM 2

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

Lab ID: 2209487-001

Matrix: MEOH (SOIL)

Received Date: 9/10/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	9/12/2022 10:54:58 AM	70100
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	22		mg/Kg	5	9/11/2022 12:08:36 PM	70069
Surr: BFB	98.8	70-130		%Rec	5	9/11/2022 12:08:36 PM	70069
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	33	14		mg/Kg	1	9/12/2022 9:05:40 AM	70093
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/12/2022 9:05:40 AM	70093
Surr: DNOP	90.3	21-129		%Rec	1	9/12/2022 9:05:40 AM	70093
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: BRM
Benzene	ND	0.11		mg/Kg	5	9/11/2022 12:08:36 PM	70069
Toluene	ND	0.22		mg/Kg	5	9/11/2022 12:08:36 PM	70069
Ethylbenzene	ND	0.22		mg/Kg	5	9/11/2022 12:08:36 PM	70069
Xylenes, Total	ND	0.45		mg/Kg	5	9/11/2022 12:08:36 PM	70069
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	5	9/11/2022 12:08:36 PM	70069
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	9/11/2022 12:08:36 PM	70069
Surr: Dibromofluoromethane	104	70-130		%Rec	5	9/11/2022 12:08:36 PM	70069
Surr: Toluene-d8	107	70-130		%Rec	5	9/11/2022 12:08:36 PM	70069

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 2209487

Date Reported: 9/15/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WW/0-5

Project: Judson AUU State COM 2

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

Lab ID: 2209487-002

Matrix: MEOH (SOIL)

Received Date: 9/10/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	9/12/2022 11:07:19 AM	70100
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	9/11/2022 12:35:38 PM	70069
Surr: BFB	95.7	70-130		%Rec	5	9/11/2022 12:35:38 PM	70069
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/12/2022 9:37:11 AM	70093
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/12/2022 9:37:11 AM	70093
Surr: DNOP	87.8	21-129		%Rec	1	9/12/2022 9:37:11 AM	70093
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: BRM
Benzene	ND	0.13		mg/Kg	5	9/11/2022 12:35:38 PM	70069
Toluene	ND	0.25		mg/Kg	5	9/11/2022 12:35:38 PM	70069
Ethylbenzene	ND	0.25		mg/Kg	5	9/11/2022 12:35:38 PM	70069
Xylenes, Total	ND	0.51		mg/Kg	5	9/11/2022 12:35:38 PM	70069
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	5	9/11/2022 12:35:38 PM	70069
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	5	9/11/2022 12:35:38 PM	70069
Surr: Dibromofluoromethane	111	70-130		%Rec	5	9/11/2022 12:35:38 PM	70069
Surr: Toluene-d8	105	70-130		%Rec	5	9/11/2022 12:35:38 PM	70069

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 2209487

Date Reported: 9/15/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW/0-5

Project: Judson AUU State COM 2

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

Lab ID: 2209487-003

Matrix: MEOH (SOIL)

Received Date: 9/10/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	9/12/2022 11:19:39 AM	70100
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	9/11/2022 1:02:38 PM	70069
Surr: BFB	101	70-130		%Rec	1	9/11/2022 1:02:38 PM	70069
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	140	14		mg/Kg	1	9/12/2022 9:47:42 AM	70093
Motor Oil Range Organics (MRO)	130	45		mg/Kg	1	9/12/2022 9:47:42 AM	70093
Surr: DNOP	85.9	21-129		%Rec	1	9/12/2022 9:47:42 AM	70093
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: BRM
Benzene	ND	0.016		mg/Kg	1	9/11/2022 1:02:38 PM	70069
Toluene	ND	0.033		mg/Kg	1	9/11/2022 1:02:38 PM	70069
Ethylbenzene	ND	0.033		mg/Kg	1	9/11/2022 1:02:38 PM	70069
Xylenes, Total	ND	0.065		mg/Kg	1	9/11/2022 1:02:38 PM	70069
Surr: 1,2-Dichloroethane-d4	97.0	70-130		%Rec	1	9/11/2022 1:02:38 PM	70069
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	9/11/2022 1:02:38 PM	70069
Surr: Dibromofluoromethane	101	70-130		%Rec	1	9/11/2022 1:02:38 PM	70069
Surr: Toluene-d8	108	70-130		%Rec	1	9/11/2022 1:02:38 PM	70069

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 2209487

Date Reported: 9/15/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW/0-5

Project: Judson AUU State COM 2

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

Lab ID: 2209487-004

Matrix: MEOH (SOIL)

Received Date: 9/10/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	110	60		mg/Kg	20	9/12/2022 11:31:59 AM	70100
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/11/2022 1:29:38 PM	70069
Surr: BFB	101	70-130		%Rec	1	9/11/2022 1:29:38 PM	70069
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/12/2022 10:08:49 AM	70093
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2022 10:08:49 AM	70093
Surr: DNOP	81.0	21-129		%Rec	1	9/12/2022 10:08:49 AM	70093
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: BRM
Benzene	ND	0.020		mg/Kg	1	9/11/2022 1:29:38 PM	70069
Toluene	ND	0.040		mg/Kg	1	9/11/2022 1:29:38 PM	70069
Ethylbenzene	ND	0.040		mg/Kg	1	9/11/2022 1:29:38 PM	70069
Xylenes, Total	ND	0.079		mg/Kg	1	9/11/2022 1:29:38 PM	70069
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/11/2022 1:29:38 PM	70069
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/11/2022 1:29:38 PM	70069
Surr: Dibromofluoromethane	103	70-130		%Rec	1	9/11/2022 1:29:38 PM	70069
Surr: Toluene-d8	107	70-130		%Rec	1	9/11/2022 1:29:38 PM	70069

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#: 2209487

15-Sep-22

**Client:** EOG  
**Project:** Judson AUU State COM 2

Sample ID: <b>MB-70100</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBS</b>	Batch ID: <b>70100</b>	RunNo: <b>90958</b>
Prep Date: <b>9/12/2022</b>	Analysis Date: <b>9/12/2022</b>	SeqNo: <b>3253203</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-70100</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSS</b>	Batch ID: <b>70100</b>	RunNo: <b>90958</b>
Prep Date: <b>9/12/2022</b>	Analysis Date: <b>9/12/2022</b>	SeqNo: <b>3253204</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.4 90 110

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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#: 2209487

15-Sep-22

Client: EOG

Project: Judson AUU State COM 2

Sample ID: LCS-70093	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70093	RunNo: 90945								
Prep Date: 9/12/2022	Analysis Date: 9/12/2022	SeqNo: 3251772	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	15	50.00	0	69.1	64.4	127			
Surr: DNOP	3.5		5.000		69.2	21	129			

Sample ID: MB-70093	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70093	RunNo: 90945								
Prep Date: 9/12/2022	Analysis Date: 9/12/2022	SeqNo: 3251773	Units: mg/Kg							
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	8.2		10.00		81.9	21	129			

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#: 2209487

15-Sep-22

**Client:** EOG**Project:** Judson AUU State COM 2

Sample ID: <b>Ics-70069</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>70069</b>	RunNo: <b>90941</b>								
Prep Date: <b>9/9/2022</b>	Analysis Date: <b>9/11/2022</b>	SeqNo: <b>3251606</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.5	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.2	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: <b>mb-70069</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70069</b>	RunNo: <b>90941</b>								
Prep Date: <b>9/9/2022</b>	Analysis Date: <b>9/11/2022</b>	SeqNo: <b>3251607</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.8	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.8	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		102	70	130			
Surr: Toluene-d8	0.55		0.5000		110	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		

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

WO#: 2209487

15-Sep-22

**Client:** EOG**Project:** Judson AUU State COM 2

Sample ID: <b>ics-70069</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>70069</b>				RunNo: <b>90941</b>					
Prep Date: <b>9/9/2022</b>	Analysis Date: <b>9/11/2022</b>				SeqNo: <b>3251586</b>	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	70	130			
Surr: BFB	520		500.0		103	70	130			

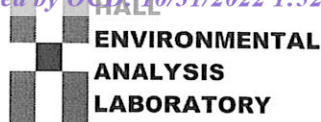
Sample ID: <b>mb-70069</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID: <b>PBS</b>	Batch ID: <b>70069</b>				RunNo: <b>90941</b>					
Prep Date: <b>9/9/2022</b>	Analysis Date: <b>9/11/2022</b>				SeqNo: <b>3251587</b>	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		99.0	70	130			

**Qualifiers:**

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

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





## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2209487

RcptNo: 1

Received By: Sean Livingston 9/10/2022 8:30:00 AM

Completed By: Sean Livingston 9/10/2022 8:52:23 AM

Reviewed By: TMe 9/10/22

*Sean Livingston*  
*Sean Livingston*

Chain of Custody

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

Log In

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

# of preserved  
bottles checked  
for pH: \_\_\_\_\_  
( $<2$  or  $>12$  unless noted)

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

Checked by: *SEL 9/10/22*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	1.2	Good				

## Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

☒ Standard
 ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☒ NELAC
 ☐ Other

☒ EDD (Type) Excel

Turn-Around Time:

☐ Standard

☒ Rush

Project Name:

Tudson Abu State Can #2

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CP): 1.2 ± 0.1 °C

Container Type and #

Preservative Type

HEAL No.

2209487

001

002

003

004

BTX (8021)

TPH:8015D(GRO / DRO / MRO)

Chloride (EPA 300)

## Analysis Request

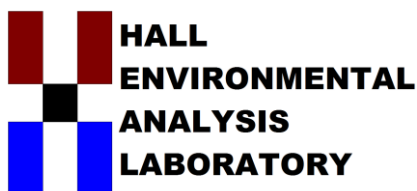
Remarks: Bill to EOG Artesia

Received by: Via: Date Time

Received by: Via: Date Time

Received by: Via: Date Time

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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 22, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Judson Auu State Com 2

OrderNo.: 2209812

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/16/2022 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 light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2209812

Date Reported: 9/22/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW/0-5A

Project: Judson Auu State Com 2

Collection Date: 9/13/2022 10:34:00 AM

Lab ID: 2209812-001

Matrix: MEOH (SOIL)

Received Date: 9/16/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	9/16/2022 11:10:56 AM	70223
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	79	14		mg/Kg	1	9/16/2022 11:06:33 AM	70218
Motor Oil Range Organics (MRO)	120	47		mg/Kg	1	9/16/2022 11:06:33 AM	70218
Surr: DNOP	84.1	21-129		%Rec	1	9/16/2022 11:06:33 AM	70218
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	9/16/2022 9:31:34 AM	70210
Surr: BFB	90.0	37.7-212		%Rec	1	9/16/2022 9:31:34 AM	70210
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	9/16/2022 9:31:34 AM	70210
Toluene	ND	0.035		mg/Kg	1	9/16/2022 9:31:34 AM	70210
Ethylbenzene	ND	0.035		mg/Kg	1	9/16/2022 9:31:34 AM	70210
Xylenes, Total	ND	0.069		mg/Kg	1	9/16/2022 9:31:34 AM	70210
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	9/16/2022 9:31:34 AM	70210

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 2209812

Date Reported: 9/22/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW/5-10

Project: Judson Auu State Com 2

Collection Date: 9/14/2022 11:59:00 AM

Lab ID: 2209812-002

Matrix: MEOH (SOIL)

Received Date: 9/16/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	9/16/2022 11:23:17 AM	70223
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	63	15		mg/Kg	1	9/16/2022 10:24:06 AM	70218
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/16/2022 10:24:06 AM	70218
Surr: DNOP	81.4	21-129		%Rec	1	9/16/2022 10:24:06 AM	70218
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	22		mg/Kg	5	9/16/2022 9:55:08 AM	70210
Surr: BFB	100	37.7-212		%Rec	5	9/16/2022 9:55:08 AM	70210
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.11		mg/Kg	5	9/16/2022 9:55:08 AM	70210
Toluene	ND	0.22		mg/Kg	5	9/16/2022 9:55:08 AM	70210
Ethylbenzene	ND	0.22		mg/Kg	5	9/16/2022 9:55:08 AM	70210
Xylenes, Total	ND	0.44		mg/Kg	5	9/16/2022 9:55:08 AM	70210
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	5	9/16/2022 9:55:08 AM	70210

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 2209812

Date Reported: 9/22/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW/5-10

Project: Judson Auu State Com 2

Collection Date: 9/14/2022 12:31:00 PM

Lab ID: 2209812-003

Matrix: MEOH (SOIL)

Received Date: 9/16/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	9/16/2022 11:35:38 AM	70223
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/16/2022 10:34:36 AM	70218
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/16/2022 10:34:36 AM	70218
Surr: DNOP	77.3	21-129		%Rec	1	9/16/2022 10:34:36 AM	70218
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/16/2022 10:18:40 AM	70210
Surr: BFB	94.8	37.7-212		%Rec	1	9/16/2022 10:18:40 AM	70210
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.020		mg/Kg	1	9/16/2022 10:18:40 AM	70210
Toluene	ND	0.041		mg/Kg	1	9/16/2022 10:18:40 AM	70210
Ethylbenzene	ND	0.041		mg/Kg	1	9/16/2022 10:18:40 AM	70210
Xylenes, Total	ND	0.081		mg/Kg	1	9/16/2022 10:18:40 AM	70210
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	9/16/2022 10:18:40 AM	70210

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 2209812

Date Reported: 9/22/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW/5-10

Project: Judson Auu State Com 2

Collection Date: 9/14/2022 3:12:00 PM

Lab ID: 2209812-004

Matrix: MEOH (SOIL)

Received Date: 9/16/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	9/16/2022 11:47:59 AM	70223
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/16/2022 10:45:09 AM	70218
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/16/2022 10:45:09 AM	70218
Surr: DNOP	81.2	21-129		%Rec	1	9/16/2022 10:45:09 AM	70218
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/16/2022 10:42:14 AM	70210
Surr: BFB	93.6	37.7-212		%Rec	1	9/16/2022 10:42:14 AM	70210
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/16/2022 10:42:14 AM	70210
Toluene	ND	0.047		mg/Kg	1	9/16/2022 10:42:14 AM	70210
Ethylbenzene	ND	0.047		mg/Kg	1	9/16/2022 10:42:14 AM	70210
Xylenes, Total	ND	0.094		mg/Kg	1	9/16/2022 10:42:14 AM	70210
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	9/16/2022 10:42:14 AM	70210

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 2209812

Date Reported: 9/22/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WW/5-10

Project: Judson Auu State Com 2

Collection Date: 9/14/2022 3:18:00 PM

Lab ID: 2209812-005

Matrix: MEOH (SOIL)

Received Date: 9/16/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	9/16/2022 12:00:20 PM	70223
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/16/2022 10:55:57 AM	70218
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/16/2022 10:55:57 AM	70218
Surr: DNOP	83.3	21-129		%Rec	1	9/16/2022 10:55:57 AM	70218
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/16/2022 11:05:43 AM	70210
Surr: BFB	89.9	37.7-212		%Rec	1	9/16/2022 11:05:43 AM	70210
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.020		mg/Kg	1	9/16/2022 11:05:43 AM	70210
Toluene	ND	0.040		mg/Kg	1	9/16/2022 11:05:43 AM	70210
Ethylbenzene	ND	0.040		mg/Kg	1	9/16/2022 11:05:43 AM	70210
Xylenes, Total	ND	0.079		mg/Kg	1	9/16/2022 11:05:43 AM	70210
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	9/16/2022 11:05:43 AM	70210

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#: 2209812  
22-Sep-22

Client: EOG  
Project: Judson Auu State Com 2

Sample ID: MB-70223		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 70223		RunNo: 91091						
Prep Date: 9/16/2022		Analysis Date: 9/16/2022		SeqNo: 3259760		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70223		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 70223		RunNo: 91091						
Prep Date: 9/16/2022		Analysis Date: 9/16/2022		SeqNo: 3259761		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	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

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

WO#: 2209812

22-Sep-22

**Client:** EOG**Project:** Judson Auu State Com 2

Sample ID: <b>LCS-70218</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70218</b>		RunNo: <b>91092</b>							
Prep Date: <b>9/16/2022</b>	Analysis Date: <b>9/16/2022</b>		SeqNo: <b>3258486</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	74.2	64.4	127			
Surr: DNOP	3.7		5.000		74.9	21	129			

Sample ID: <b>MB-70218</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70218</b>		RunNo: <b>91092</b>							
Prep Date: <b>9/16/2022</b>	Analysis Date: <b>9/16/2022</b>		SeqNo: <b>3258487</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	8.2		10.00		82.0	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#: 2209812

22-Sep-22

**Client:** EOG**Project:** Judson Auu State Com 2

Sample ID: <b>mb-70210</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70210</b>		RunNo: <b>91087</b>							
Prep Date: <b>9/15/2022</b>	Analysis Date: <b>9/16/2022</b>		SeqNo: <b>3259400</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	970		1000		96.7	37.7	212			

Sample ID: <b>lcs-70210</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70210</b>		RunNo: <b>91087</b>							
Prep Date: <b>9/15/2022</b>	Analysis Date: <b>9/16/2022</b>		SeqNo: <b>3259401</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	95.6	72.3	137			
Surr: BFB	1900		1000		188	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#: 2209812

22-Sep-22

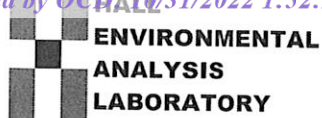
**Client:** EOG**Project:** Judson Auu State Com 2

Sample ID: <b>mb-70210</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70210</b>	RunNo: <b>91087</b>								
Prep Date: <b>9/15/2022</b>	Analysis Date: <b>9/16/2022</b>	SeqNo: <b>3259422</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	0.87		1.000		87.5	70	130			

Sample ID: <b>LCS-70210</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70210</b>	RunNo: <b>91087</b>								
Prep Date: <b>9/15/2022</b>	Analysis Date: <b>9/16/2022</b>	SeqNo: <b>3259423</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.1	80	120			
Toluene	0.91	0.050	1.000	0	90.7	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.9	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	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: EOG

Work Order Number: 2209812

RcptNo: 1

Received By: Joseph Alderette

9/16/2022 7:45:00 AM

Completed By: Cheyenne Cason

9/16/2022 8:04:52 AM

Reviewed By:

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:

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

Adjusted?

Checked by: JA 9/16/22Special 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	3.3	Good	Not Present			

## Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

☒ Standard
 ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☒ NELAC
 ☐ Other

☒ EDD (Type)
 ☐ Excel

Turn-Around Time:

☐ Standard
 ☒ Rush Same Day

Project Name:

Judson Ave State Con #2

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KierdorfOn Ice: ☐ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 33 - 0 = 33°C

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

9/13/22 1034 SW/0-5A

9/14/22 1159 FW/5-10

9/14/22 1231 NW/5-10

9/15/22 1512 SW/5-10

9/15/22 1518 WW/5-10

Date:

9/14/22 1715

Relinquished by:

W. Kierdorf

Date:

9/15/22 1900

Relinquished by:

W. Kierdorf

Received by:

W. Kierdorf

Via:

car

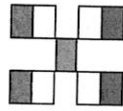
Date

9/14/22 1715

Date

9/16/22 7:45

Remarks: Bill to EOG Artesia


**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

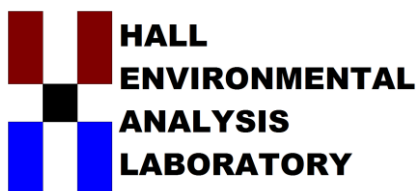
www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

 TPH:8015D(GRO / DRO / MRO)  
 BTEX (8021)  
 Chloride (EPA 300)



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 21, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Judson Auu State 2

OrderNo.: 2209882

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 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 light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2209882

Date Reported: 9/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW/10-15

Project: Judson Auu State 2

Collection Date: 9/16/2022 10:12:00 AM

Lab ID: 2209882-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	9/19/2022 12:03:17 PM	70254
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/19/2022 11:59:08 AM	70248
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/19/2022 11:59:08 AM	70248
Surr: DNOP	84.5	21-129		%Rec	1	9/19/2022 11:59:08 AM	70248
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	9/19/2022 10:36:41 AM	70234
Surr: BFB	97.8	37.7-212		%Rec	5	9/19/2022 10:36:41 AM	70234
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.095		mg/Kg	5	9/19/2022 10:36:41 AM	70234
Toluene	ND	0.19		mg/Kg	5	9/19/2022 10:36:41 AM	70234
Ethylbenzene	ND	0.19		mg/Kg	5	9/19/2022 10:36:41 AM	70234
Xylenes, Total	ND	0.38		mg/Kg	5	9/19/2022 10:36:41 AM	70234
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	5	9/19/2022 10:36:41 AM	70234

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 2209882

Date Reported: 9/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW/10-15

Project: Judson Auu State 2

Collection Date: 9/16/2022 10:18:00 AM

Lab ID: 2209882-002

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	9/19/2022 12:15:42 PM	70254
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	1800	71		mg/Kg	5	9/19/2022 12:35:24 PM	70248
Motor Oil Range Organics (MRO)	ND	240		mg/Kg	5	9/19/2022 12:35:24 PM	70248
Surr: DNOP	49.4	21-129		%Rec	5	9/19/2022 12:35:24 PM	70248
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	190	19		mg/Kg	5	9/19/2022 11:00:12 AM	70234
Surr: BFB	391	37.7-212	S	%Rec	5	9/19/2022 11:00:12 AM	70234
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.093		mg/Kg	5	9/19/2022 11:00:12 AM	70234
Toluene	ND	0.19		mg/Kg	5	9/19/2022 11:00:12 AM	70234
Ethylbenzene	ND	0.19		mg/Kg	5	9/19/2022 11:00:12 AM	70234
Xylenes, Total	8.2	0.37		mg/Kg	5	9/19/2022 11:00:12 AM	70234
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	9/19/2022 11:00:12 AM	70234

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 2209882

Date Reported: 9/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW/ 0-5B

Project: Judson Auu State 2

Collection Date: 9/16/2022 2:15:00 PM

Lab ID: 2209882-003

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	140	60		mg/Kg	20	9/19/2022 12:28:06 PM	70254
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/19/2022 12:20:46 PM	70248
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/19/2022 12:20:46 PM	70248
Surr: DNOP	86.1	21-129		%Rec	1	9/19/2022 12:20:46 PM	70248
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/19/2022 11:23:41 AM	70234
Surr: BFB	99.1	37.7-212		%Rec	1	9/19/2022 11:23:41 AM	70234
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/19/2022 11:23:41 AM	70234
Toluene	ND	0.046		mg/Kg	1	9/19/2022 11:23:41 AM	70234
Ethylbenzene	ND	0.046		mg/Kg	1	9/19/2022 11:23:41 AM	70234
Xylenes, Total	ND	0.092		mg/Kg	1	9/19/2022 11:23:41 AM	70234
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	9/19/2022 11:23:41 AM	70234

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#: 2209882  
21-Sep-22

Client: EOG  
Project: Judson Auu State 2

Sample ID: MB-70254		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 70254		RunNo: 91126						
Prep Date: 9/19/2022		Analysis Date: 9/19/2022		SeqNo: 3261255		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70254		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 70254		RunNo: 91126						
Prep Date: 9/19/2022		Analysis Date: 9/19/2022		SeqNo: 3261256		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

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

WO#: 2209882

21-Sep-22

**Client:** EOG  
**Project:** Judson Auu State 2

Sample ID: <b>LCS-70248</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70248</b>		RunNo: <b>91130</b>							
Prep Date: <b>9/19/2022</b>	Analysis Date: <b>9/19/2022</b>		SeqNo: <b>3260207</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	15	50.00	0	77.3	64.4	127			
Surr: DNOP	3.7		5.000		73.9	21	129			

Sample ID: <b>MB-70248</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70248</b>		RunNo: <b>91130</b>							
Prep Date: <b>9/19/2022</b>	Analysis Date: <b>9/19/2022</b>		SeqNo: <b>3260209</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	8.6		10.00		86.1	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#: 2209882

21-Sep-22

**Client:** EOG  
**Project:** Judson Auu State 2

Sample ID: <b>mb-70234</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70234</b>		RunNo: <b>91122</b>							
Prep Date: <b>9/16/2022</b>	Analysis Date: <b>9/19/2022</b>		SeqNo: <b>3260359</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-70234</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70234</b>		RunNo: <b>91122</b>							
Prep Date: <b>9/16/2022</b>	Analysis Date: <b>9/19/2022</b>		SeqNo: <b>3260360</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		201	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#: 2209882

21-Sep-22

**Client:** EOG**Project:** Judson Auu State 2

Sample ID: <b>mb-70234</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70234</b>	RunNo: <b>91122</b>								
Prep Date: <b>9/16/2022</b>	Analysis Date: <b>9/19/2022</b>	SeqNo: <b>3260369</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	0.99		1.000		98.8	70	130			

Sample ID: <b>LCS-70234</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70234</b>	RunNo: <b>91122</b>								
Prep Date: <b>9/16/2022</b>	Analysis Date: <b>9/19/2022</b>	SeqNo: <b>3260370</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	91.5	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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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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: EOG

Work Order Number: 2209882

RcptNo: 1

Received By: Juan Rojas

9/17/2022 11:30:00 AM

Completed By: Juan Rojas

9/17/2022 11:37:06 AM

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  $>0^{\circ}\text{C}$  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: 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good				

## Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

☒ Standard
 ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☒ NELAC
 ☐ Other

☒ EDD (Type)
 ☐ Excel

Turn-Around Time:  
☐ Standard ☒ Rush Same Day

Project Name:  
Judson Ave State #2

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KierdorfOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 0940.2 = 1.1

Container Type and #

Preservative Type

HEAL No.

1 x 4oz Jar
FCE
2709882
-001
-002
-003

BTX (8021)

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Remarks: Bill to EOG Artesia

 Received by: W. Kierdorf Date: 9/17/22 Time: 11:30

 Received by: W. Kierdorf Date: 9/17/22 Time: 11:30

 Received by: W. Kierdorf Date: 9/17/22 Time: 11:30

 Received by: W. Kierdorf Date: 9/17/22 Time: 11:30

 Received by: W. Kierdorf Date: 9/17/22 Time: 11:30

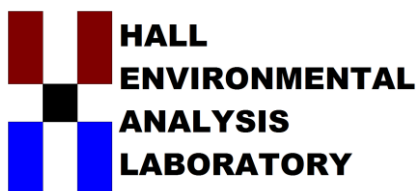
 Received by: W. Kierdorf Date: 9/17/22 Time: 11:30

 Received by: W. Kierdorf Date: 9/17/22 Time: 11:30

 Received by: W. Kierdorf Date: 9/17/22 Time: 11:30

 Received by: W. Kierdorf Date: 9/17/22 Time: 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 26, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Judson AUU State Com 2

OrderNo.: 2209A32

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 5 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 light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2209A32

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW/10-15A

Project: Judson AUU State Com 2

Collection Date: 9/20/2022 11:10:00 AM

Lab ID: 2209A32-001

Matrix: MEOH (SOIL)

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	9/21/2022 12:33:23 PM	70315
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/21/2022 10:50:39 AM	70306
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/21/2022 10:50:39 AM	70306
Surr: DNOP	79.3	21-129		%Rec	1	9/21/2022 10:50:39 AM	70306
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/21/2022 10:08:25 AM	70296
Surr: BFB	98.3	37.7-212		%Rec	1	9/21/2022 10:08:25 AM	70296
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	9/21/2022 10:08:25 AM	70296
Toluene	ND	0.034		mg/Kg	1	9/21/2022 10:08:25 AM	70296
Ethylbenzene	ND	0.034		mg/Kg	1	9/21/2022 10:08:25 AM	70296
Xylenes, Total	ND	0.069		mg/Kg	1	9/21/2022 10:08:25 AM	70296
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/21/2022 10:08:25 AM	70296

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 2209A32

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW/15-20

Project: Judson AUU State Com 2

Collection Date: 9/20/2022 11:12:00 AM

Lab ID: 2209A32-002

Matrix: MEOH (SOIL)

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	9/21/2022 12:45:48 PM	70315
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/21/2022 11:01:13 AM	70306
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/21/2022 11:01:13 AM	70306
Surr: DNOP	79.1	21-129		%Rec	1	9/21/2022 11:01:13 AM	70306
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/21/2022 10:32:01 AM	70296
Surr: BFB	99.0	37.7-212		%Rec	1	9/21/2022 10:32:01 AM	70296
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	9/21/2022 10:32:01 AM	70296
Toluene	ND	0.039		mg/Kg	1	9/21/2022 10:32:01 AM	70296
Ethylbenzene	ND	0.039		mg/Kg	1	9/21/2022 10:32:01 AM	70296
Xylenes, Total	ND	0.079		mg/Kg	1	9/21/2022 10:32:01 AM	70296
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/21/2022 10:32:01 AM	70296

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 2209A32

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WW/15-20

Project: Judson AUU State Com 2

Collection Date: 9/20/2022 11:14:00 AM

Lab ID: 2209A32-003

Matrix: MEOH (SOIL)

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	9/21/2022 12:58:12 PM	70315
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/21/2022 11:11:46 AM	70306
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/21/2022 11:11:46 AM	70306
Surr: DNOP	80.1	21-129		%Rec	1	9/21/2022 11:11:46 AM	70306
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	9/21/2022 10:55:33 AM	70296
Surr: BFB	98.3	37.7-212		%Rec	5	9/21/2022 10:55:33 AM	70296
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.11		mg/Kg	5	9/21/2022 10:55:33 AM	70296
Toluene	ND	0.21		mg/Kg	5	9/21/2022 10:55:33 AM	70296
Ethylbenzene	ND	0.21		mg/Kg	5	9/21/2022 10:55:33 AM	70296
Xylenes, Total	ND	0.43		mg/Kg	5	9/21/2022 10:55:33 AM	70296
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	9/21/2022 10:55:33 AM	70296

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 2209A32

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW/15-20

Project: Judson AUU State Com 2

Collection Date: 9/20/2022 11:16:00 AM

Lab ID: 2209A32-004

Matrix: MEOH (SOIL)

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	9/21/2022 1:35:25 PM	70315
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/21/2022 11:22:21 AM	70306
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/21/2022 11:22:21 AM	70306
Surr: DNOP	80.1	21-129		%Rec	1	9/21/2022 11:22:21 AM	70306
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/21/2022 11:19:05 AM	70296
Surr: BFB	96.4	37.7-212		%Rec	1	9/21/2022 11:19:05 AM	70296
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	9/21/2022 11:19:05 AM	70296
Toluene	ND	0.037		mg/Kg	1	9/21/2022 11:19:05 AM	70296
Ethylbenzene	ND	0.037		mg/Kg	1	9/21/2022 11:19:05 AM	70296
Xylenes, Total	ND	0.074		mg/Kg	1	9/21/2022 11:19:05 AM	70296
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	9/21/2022 11:19:05 AM	70296

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 2209A32

Date Reported: 9/26/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW/15-20

Project: Judson AUU State Com 2

Collection Date: 9/20/2022 11:18:00 AM

Lab ID: 2209A32-005

Matrix: MEOH (SOIL)

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	9/21/2022 1:47:49 PM	70315
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/21/2022 11:32:57 AM	70306
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/21/2022 11:32:57 AM	70306
Surr: DNOP	80.4	21-129		%Rec	1	9/21/2022 11:32:57 AM	70306
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/21/2022 11:42:37 AM	70296
Surr: BFB	96.3	37.7-212		%Rec	1	9/21/2022 11:42:37 AM	70296
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	9/21/2022 11:42:37 AM	70296
Toluene	ND	0.040		mg/Kg	1	9/21/2022 11:42:37 AM	70296
Ethylbenzene	ND	0.040		mg/Kg	1	9/21/2022 11:42:37 AM	70296
Xylenes, Total	ND	0.080		mg/Kg	1	9/21/2022 11:42:37 AM	70296
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/21/2022 11:42:37 AM	70296

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		



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209A32  
26-Sep-22

Client: EOG  
Project: Judson AUU State Com 2

Sample ID: MB-70315		SampType: mblk			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 70315			RunNo: 91197					
Prep Date: 9/21/2022		Analysis Date: 9/21/2022			SeqNo: 3264230		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-70315</b>		SampType: <b>lcs</b>		TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSS</b>		Batch ID: <b>70315</b>		RunNo: <b>91197</b>						
Prep Date: <b>9/21/2022</b>		Analysis Date: <b>9/21/2022</b>		SeqNo: <b>3264231</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix 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#: 2209A32

26-Sep-22

**Client:** EOG**Project:** Judson AUU State Com 2

Sample ID: <b>MB-70306</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70306</b>		RunNo: <b>91191</b>							
Prep Date: <b>9/21/2022</b>	Analysis Date: <b>9/21/2022</b>		SeqNo: <b>3262758</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	10		10.00		104	21	129			

Sample ID: <b>LCS-70306</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70306</b>		RunNo: <b>91191</b>							
Prep Date: <b>9/21/2022</b>	Analysis Date: <b>9/21/2022</b>		SeqNo: <b>3262759</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	15	50.00	0	104	64.4	127			
Surr: DNOP	4.8		5.000		96.0	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		

Page 7 of 9

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

WO#: 2209A32

26-Sep-22

**Client:** EOG**Project:** Judson AUU State Com 2

Sample ID: <b>mb-70296</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70296</b>		RunNo: <b>91188</b>							
Prep Date: <b>9/20/2022</b>	Analysis Date: <b>9/21/2022</b>		SeqNo: <b>3263138</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	980		1000		98.4	37.7	212			

Sample ID: <b>lcs-70296</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70296</b>		RunNo: <b>91188</b>							
Prep Date: <b>9/20/2022</b>	Analysis Date: <b>9/21/2022</b>		SeqNo: <b>3263139</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB	2000		1000		197	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#: 2209A32

26-Sep-22

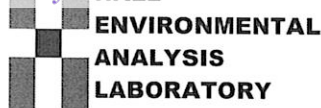
**Client:** EOG**Project:** Judson AUU State Com 2

Sample ID: <b>mb-70296</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>70296</b>	RunNo: <b>91188</b>								
Prep Date: <b>9/20/2022</b>	Analysis Date: <b>9/21/2022</b>	SeqNo: <b>3263178</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	70	130			

Sample ID: <b>LCS-70296</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>70296</b>	RunNo: <b>91188</b>								
Prep Date: <b>9/20/2022</b>	Analysis Date: <b>9/21/2022</b>	SeqNo: <b>3263179</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.6	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		



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: EOG

Work Order Number: 2209A32

RcptNo: 1

Received By: Juan Rojas

9/21/2022 7:30:00 AM

*Juan Rojas*

Completed By: Cheyenne Cason

9/21/2022 8:10:33 AM

*Cason*

Reviewed By:

*ma 9/21/22*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: *KRA 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Not Present			

## Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

☒ Standard
 ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☒ NELAC
 ☐ Other

☒ EDD (Type)
 ☐ Excel

Turn-Around Time:  
☐ Standard ☒ Rush Same Day

Project Name:  
 Jackson Abu State Court #12

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☐ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CP): 10-02-18

Container Type and #	Preservative Type	HEAL No.
1 x 4oz Jar	ICF	2209432
		001
		002
		003
		004
		005

Date	Time	Matrix	Sample Name
9/20/22	1110	SPIL	EW/10-15A
	1112		NW/15-20
	1114		WW/15-20
	1116		SW/15-20
	1118		EW/15-20

Date: 9/20/22 1405

Relinquished by: W. Kennedy

Date: 9/20/22 1900

Relinquished by: A. Kennedy

Received by:

Via: A. Kennedy

Date: 9/20/22 1405

Received by:

Via: A. Kennedy

Date: 9/20/22 1900

Date

Time

Date

Time

Date

Time

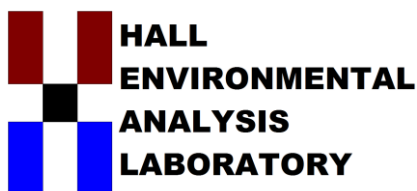
Remarks: Bill to EOG Artesia

BTEX (8021)

TPH: 8015D (GRO / DRO / MRO)

Chloride (EPA 300)





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 11, 2022

Will Kierdorf  
EOG  
105 South Fourth Street  
Artesia, NM 88210  
TEL:  
FAX

RE: Judson Auu State Com 2

OrderNo.: 2210138

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/5/2022 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 2210138

Date Reported: 10/11/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW/10-15

Project: Judson Auu State Com 2

Collection Date: 10/3/2022 10:25:00 AM

Lab ID: 2210138-001

Matrix: MEOH (SOIL)

Received Date: 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/5/2022 11:56:14 PM	70636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/5/2022 6:28:25 PM	70614
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/5/2022 6:28:25 PM	70614
Surr: DNOP	80.5	21-129		%Rec	1	10/5/2022 6:28:25 PM	70614
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	10/5/2022 3:00:57 PM	R91584
Surr: BFB	94.2	37.7-212		%Rec	1	10/5/2022 3:00:57 PM	R91584
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	10/5/2022 3:00:57 PM	BS91584
Toluene	ND	0.040		mg/Kg	1	10/5/2022 3:00:57 PM	BS91584
Ethylbenzene	ND	0.040		mg/Kg	1	10/5/2022 3:00:57 PM	BS91584
Xylenes, Total	ND	0.080		mg/Kg	1	10/5/2022 3:00:57 PM	BS91584
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	10/5/2022 3:00:57 PM	BS91584

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 2210138

Date Reported: 10/11/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WW/10-15

Project: Judson Auu State Com 2

Collection Date: 10/3/2022 10:30:00 AM

Lab ID: 2210138-002

Matrix: MEOH (SOIL)

Received Date: 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	110	60		mg/Kg	20	10/6/2022 12:08:39 AM	70636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/5/2022 7:00:13 PM	70614
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/5/2022 7:00:13 PM	70614
Surr: DNOP	82.0	21-129		%Rec	1	10/5/2022 7:00:13 PM	70614
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/5/2022 4:11:34 PM	R91584
Surr: BFB	93.4	37.7-212		%Rec	1	10/5/2022 4:11:34 PM	R91584
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	10/5/2022 4:11:34 PM	BS91584
Toluene	ND	0.037		mg/Kg	1	10/5/2022 4:11:34 PM	BS91584
Ethylbenzene	ND	0.037		mg/Kg	1	10/5/2022 4:11:34 PM	BS91584
Xylenes, Total	ND	0.075		mg/Kg	1	10/5/2022 4:11:34 PM	BS91584
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	10/5/2022 4:11:34 PM	BS91584

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 2210138

Date Reported: 10/11/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW/20-25

Project: Judson Auu State Com 2

Collection Date: 10/3/2022 10:45:00 AM

Lab ID: 2210138-003

Matrix: MEOH (SOIL)

Received Date: 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	470	60		mg/Kg	20	10/6/2022 12:21:04 AM	70636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	62	13		mg/Kg	1	10/5/2022 7:10:48 PM	70614
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/5/2022 7:10:48 PM	70614
Surr: DNOP	84.1	21-129		%Rec	1	10/5/2022 7:10:48 PM	70614
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/5/2022 4:35:09 PM	R91584
Surr: BFB	90.8	37.7-212		%Rec	1	10/5/2022 4:35:09 PM	R91584
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.018		mg/Kg	1	10/5/2022 4:35:09 PM	BS91584
Toluene	ND	0.036		mg/Kg	1	10/5/2022 4:35:09 PM	BS91584
Ethylbenzene	ND	0.036		mg/Kg	1	10/5/2022 4:35:09 PM	BS91584
Xylenes, Total	ND	0.072		mg/Kg	1	10/5/2022 4:35:09 PM	BS91584
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	10/5/2022 4:35:09 PM	BS91584

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 2210138

Date Reported: 10/11/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW/20-25

Project: Judson Auu State Com 2

Collection Date: 10/3/2022 10:50:00 AM

Lab ID: 2210138-004

Matrix: MEOH (SOIL)

Received Date: 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/6/2022 12:33:28 AM	70636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/5/2022 7:21:22 PM	70614
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2022 7:21:22 PM	70614
Surr: DNOP	85.2	21-129		%Rec	1	10/5/2022 7:21:22 PM	70614
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	10/5/2022 4:58:43 PM	R91584
Surr: BFB	89.7	37.7-212		%Rec	1	10/5/2022 4:58:43 PM	R91584
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.017		mg/Kg	1	10/5/2022 4:58:43 PM	BS91584
Toluene	ND	0.033		mg/Kg	1	10/5/2022 4:58:43 PM	BS91584
Ethylbenzene	ND	0.033		mg/Kg	1	10/5/2022 4:58:43 PM	BS91584
Xylenes, Total	ND	0.067		mg/Kg	1	10/5/2022 4:58:43 PM	BS91584
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	10/5/2022 4:58:43 PM	BS91584

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 2210138

Date Reported: 10/11/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW/20-25

Project: Judson Auu State Com 2

Collection Date: 10/3/2022 2:00:00 PM

Lab ID: 2210138-005

Matrix: MEOH (SOIL)

Received Date: 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/6/2022 12:45:52 AM	70636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	10/5/2022 7:31:55 PM	70614
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	10/5/2022 7:31:55 PM	70614
Surr: DNOP	76.9	21-129		%Rec	1	10/5/2022 7:31:55 PM	70614
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/5/2022 5:45:33 PM	R91584
Surr: BFB	92.8	37.7-212		%Rec	1	10/5/2022 5:45:33 PM	R91584
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	10/5/2022 5:45:33 PM	BS91584
Toluene	ND	0.037		mg/Kg	1	10/5/2022 5:45:33 PM	BS91584
Ethylbenzene	ND	0.037		mg/Kg	1	10/5/2022 5:45:33 PM	BS91584
Xylenes, Total	ND	0.074		mg/Kg	1	10/5/2022 5:45:33 PM	BS91584
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/5/2022 5:45:33 PM	BS91584

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 2210138

Date Reported: 10/11/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WW/20-25

Project: Judson Auu State Com 2

Collection Date: 10/3/2022 2:26:00 PM

Lab ID: 2210138-006

Matrix: MEOH (SOIL)

Received Date: 10/5/2022 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/6/2022 12:58:17 AM	70636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/5/2022 7:42:31 PM	70614
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/5/2022 7:42:31 PM	70614
Surr: DNOP	76.6	21-129		%Rec	1	10/5/2022 7:42:31 PM	70614
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	10/5/2022 6:08:56 PM	R91584
Surr: BFB	94.6	37.7-212		%Rec	1	10/5/2022 6:08:56 PM	R91584
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	10/5/2022 6:08:56 PM	BS91584
Toluene	ND	0.039		mg/Kg	1	10/5/2022 6:08:56 PM	BS91584
Ethylbenzene	ND	0.039		mg/Kg	1	10/5/2022 6:08:56 PM	BS91584
Xylenes, Total	ND	0.078		mg/Kg	1	10/5/2022 6:08:56 PM	BS91584
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/5/2022 6:08:56 PM	BS91584

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#: 2210138  
11-Oct-22

Client: EOG  
Project: Judson Auu State Com 2

Sample ID: MB-70636	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 70636	RunNo: 91550
Prep Date: 10/5/2022	Analysis Date: 10/5/2022	SeqNo: 3281065 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-70636	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 70636	RunNo: 91550
Prep Date: 10/5/2022	Analysis Date: 10/5/2022	SeqNo: 3281066 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 96.6 90 110

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical 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#: 2210138

11-Oct-22

**Client:** EOG**Project:** Judson Auu State Com 2

Sample ID: <b>LCS-70614</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>70614</b>			RunNo: <b>91556</b>						
Prep Date: <b>10/5/2022</b>	Analysis Date: <b>10/5/2022</b>			SeqNo: <b>3286203</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	15	50.00	0	67.2	64.4	127			
Surr: DNOP	3.3		5.000		66.0	21	129			

Sample ID: <b>MB-70614</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>70614</b>			RunNo: <b>91556</b>						
Prep Date: <b>10/5/2022</b>	Analysis Date: <b>10/5/2022</b>			SeqNo: <b>3286204</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	7.8		10.00		78.5	21	129			

**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#: 2210138

11-Oct-22

**Client:** EOG**Project:** Judson Auu State Com 2

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>R91584</b>		RunNo: <b>91584</b>							
Prep Date:	Analysis Date: <b>10/5/2022</b>		SeqNo: <b>3280857</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>R91584</b>		RunNo: <b>91584</b>							
Prep Date:	Analysis Date: <b>10/5/2022</b>		SeqNo: <b>3280877</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	920		1000		92.4	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#: 2210138

11-Oct-22

**Client:** EOG**Project:** Judson Auu State Com 2

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>BS91584</b>			RunNo: <b>91584</b>						
Prep Date:	Analysis Date: <b>10/5/2022</b>			SeqNo: <b>3280881</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>BS91584</b>			RunNo: <b>91584</b>						
Prep Date:	Analysis Date: <b>10/5/2022</b>			SeqNo: <b>3280895</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	0.99		1.000		99.0	70	130			

**Qualifiers:**

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

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



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

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2210138

RcptNo: 1

Received By: John Caldwell 10/5/2022 7:25:00 AM

Completed By: Cheyenne Cason 10/5/2022 8:11:03 AM

Reviewed By: KPA 10-05-22

### 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: jn10/5/22

### 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: \_\_\_\_\_

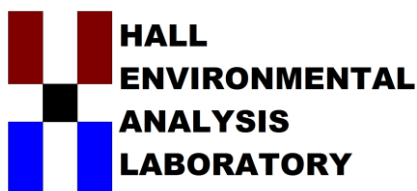
16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.7	Good	Not Present			







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 13, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4195

FAX:

RE: Judson AUU State Com 2

OrderNo.: 2210426

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/8/2022 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2210426

Date Reported: 10/13/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-1

Project: Judson AUU State Com 2

Collection Date: 10/7/2022 11:08:00 AM

Lab ID: 2210426-001

Matrix: MEOH (SOIL)

Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	10/11/2022 11:21:52 AM	70704
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/10/2022 1:49:07 PM	70695
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/10/2022 1:49:07 PM	70695
Surr: DNOP	79.7	21-129		%Rec	1	10/10/2022 1:49:07 PM	70695
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	13		mg/Kg	5	10/10/2022 12:47:13 PM	G91654
Surr: BFB	86.2	37.7-212		%Rec	5	10/10/2022 12:47:13 PM	G91654
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.067		mg/Kg	5	10/10/2022 12:47:13 PM	B91654
Toluene	ND	0.13		mg/Kg	5	10/10/2022 12:47:13 PM	B91654
Ethylbenzene	ND	0.13		mg/Kg	5	10/10/2022 12:47:13 PM	B91654
Xylenes, Total	ND	0.27		mg/Kg	5	10/10/2022 12:47:13 PM	B91654
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	5	10/10/2022 12:47:13 PM	B91654

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 2210426

Date Reported: 10/13/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-2

Project: Judson AUU State Com 2

Collection Date: 10/7/2022 11:10:00 AM

Lab ID: 2210426-002

Matrix: MEOH (SOIL)

Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	10/11/2022 11:34:16 AM	70704
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/10/2022 1:59:43 PM	70695
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/10/2022 1:59:43 PM	70695
Surr: DNOP	81.8	21-129		%Rec	1	10/10/2022 1:59:43 PM	70695
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/10/2022 1:10:43 PM	G91654
Surr: BFB	88.6	37.7-212		%Rec	1	10/10/2022 1:10:43 PM	G91654
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.025	0.024		mg/Kg	1	10/10/2022 1:10:43 PM	B91654
Toluene	ND	0.049		mg/Kg	1	10/10/2022 1:10:43 PM	B91654
Ethylbenzene	ND	0.049		mg/Kg	1	10/10/2022 1:10:43 PM	B91654
Xylenes, Total	ND	0.097		mg/Kg	1	10/10/2022 1:10:43 PM	B91654
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	10/10/2022 1:10:43 PM	B91654

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 9

## Analytical Report

Lab Order 2210426

Date Reported: 10/13/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-3

Project: Judson AUU State Com 2

Collection Date: 10/7/2022 11:12:00 AM

Lab ID: 2210426-003

Matrix: MEOH (SOIL)

Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	10/11/2022 11:46:40 AM	70704
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/10/2022 2:10:19 PM	70695
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/10/2022 2:10:19 PM	70695
Surr: DNOP	85.5	21-129		%Rec	1	10/10/2022 2:10:19 PM	70695
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	10/10/2022 1:34:06 PM	G91654
Surr: BFB	88.5	37.7-212		%Rec	1	10/10/2022 1:34:06 PM	G91654
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.086	0.016		mg/Kg	1	10/10/2022 1:34:06 PM	B91654
Toluene	ND	0.033		mg/Kg	1	10/10/2022 1:34:06 PM	B91654
Ethylbenzene	ND	0.033		mg/Kg	1	10/10/2022 1:34:06 PM	B91654
Xylenes, Total	0.084	0.066		mg/Kg	1	10/10/2022 1:34:06 PM	B91654
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	10/10/2022 1:34:06 PM	B91654

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 9

## Analytical Report

Lab Order 2210426

Date Reported: 10/13/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-4

Project: Judson AUU State Com 2

Collection Date: 10/7/2022 11:14:00 AM

Lab ID: 2210426-004

Matrix: MEOH (SOIL)

Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	10/11/2022 11:59:04 AM	70704
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/10/2022 2:20:58 PM	70695
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/10/2022 2:20:58 PM	70695
Surr: DNOP	81.9	21-129		%Rec	1	10/10/2022 2:20:58 PM	70695
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	10/10/2022 1:57:32 PM	G91654
Surr: BFB	88.7	37.7-212		%Rec	1	10/10/2022 1:57:32 PM	G91654
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.024	0.021		mg/Kg	1	10/10/2022 1:57:32 PM	B91654
Toluene	ND	0.042		mg/Kg	1	10/10/2022 1:57:32 PM	B91654
Ethylbenzene	ND	0.042		mg/Kg	1	10/10/2022 1:57:32 PM	B91654
Xylenes, Total	ND	0.085		mg/Kg	1	10/10/2022 1:57:32 PM	B91654
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	10/10/2022 1:57:32 PM	B91654

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 2210426

Date Reported: 10/13/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-5

Project: Judson AUU State Com 2

Collection Date: 10/7/2022 11:16:00 AM

Lab ID: 2210426-005

Matrix: MEOH (SOIL)

Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	10/11/2022 12:11:29 PM	70704
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/10/2022 2:31:37 PM	70695
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/10/2022 2:31:37 PM	70695
Surr: DNOP	84.9	21-129		%Rec	1	10/10/2022 2:31:37 PM	70695
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	10/10/2022 2:20:59 PM	G91654
Surr: BFB	87.4	37.7-212		%Rec	1	10/10/2022 2:20:59 PM	G91654
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.022		mg/Kg	1	10/10/2022 2:20:59 PM	B91654
Toluene	ND	0.044		mg/Kg	1	10/10/2022 2:20:59 PM	B91654
Ethylbenzene	ND	0.044		mg/Kg	1	10/10/2022 2:20:59 PM	B91654
Xylenes, Total	ND	0.087		mg/Kg	1	10/10/2022 2:20:59 PM	B91654
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	10/10/2022 2:20:59 PM	B91654

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#: 2210426

13-Oct-22

Client: EOG

Project: Judson AUU State Com 2

Sample ID: MB-70704		SampType: mblk			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 70704			RunNo: 91695					
Prep Date: 10/10/2022		Analysis Date: 10/11/2022			SeqNo: 3288679		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-70704</b>		SampType: <b>lcs</b>			TestCode: <b>EPA Method 300.0: Anions</b>					
Client ID: <b>LCSS</b>		Batch ID: <b>70704</b>			RunNo: <b>91695</b>					
Prep Date: <b>10/10/2022</b>		Analysis Date: <b>10/11/2022</b>			SeqNo: <b>3288680</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	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

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

WO#: 2210426

13-Oct-22

**Client:** EOG**Project:** Judson AUU State Com 2

Sample ID: <b>LCS-70695</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>70695</b>			RunNo: <b>91669</b>						
Prep Date: <b>10/10/2022</b>	Analysis Date: <b>10/10/2022</b>			SeqNo: <b>3284664</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	15	50.00	0	68.3	64.4	127			
Surr: DNOP	3.6		5.000		71.2	21	129			

Sample ID: <b>MB-70695</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>70695</b>			RunNo: <b>91669</b>						
Prep Date: <b>10/10/2022</b>	Analysis Date: <b>10/10/2022</b>			SeqNo: <b>3284665</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	7.9		10.00		79.0	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		

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

WO#: 2210426

13-Oct-22

**Client:** EOG**Project:** Judson AUU State Com 2

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>PBS</b>	Batch ID: <b>G91654</b>				RunNo: <b>91654</b>					
Prep Date:	Analysis Date: <b>10/10/2022</b>				SeqNo: <b>3284950</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	860		1000		85.6	37.7	212			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>G91654</b>				RunNo: <b>91654</b>					
Prep Date:	Analysis Date: <b>10/10/2022</b>				SeqNo: <b>3284951</b>	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.2	72.3	137			
Surr: BFB	1900		1000		189	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#: 2210426

13-Oct-22

**Client:** EOG**Project:** Judson AUU State Com 2

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>B91654</b>	RunNo: <b>91654</b>								
Prep Date:	Analysis Date: <b>10/10/2022</b>	SeqNo: <b>3284961</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	0.92		1.000		91.7	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>B91654</b>	RunNo: <b>91654</b>								
Prep Date:	Analysis Date: <b>10/10/2022</b>	SeqNo: <b>3284962</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.9	80	120			
Toluene	0.99	0.050	1.000	0	99.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.3	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	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: **EOG**Work Order Number: **2210426**

RcptNo: 1

Received By: **Cheyenne Cason** 10/8/2022 8:30:00 AMCompleted By: **Cheyenne Cason** 10/8/2022 9:03:53 AMReviewed By: **DO** 10/8

### 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 CM 10/8/22

### 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	4.9	Good	Not Present			



## Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

☒ Standard
 ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☒ NELAC
 ☐ Other

☒ EDD (Type)
 ☐ Excel

Turn-Around Time:

☐ Standard

☒ Rush 24-48

Project Name:

Tudson Ann State Com. #

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice:

☒ Yes

☐ No

# of Coolers: 1

Cooler Temp (including CP): 4-9 -0-4.9

Container Type and #

Preservative Type

HEAL No.

Date Time Matrix Sample Name

10/27/22 1100 Soil B-1

11/10 1110 B-2

11/12 1112 B-3

11/14 1114 B-4

11/16 1116 B-5

1 x 402Lw DCE

2210426

BTX (8021)

TPH:8015D(GRO / DRO / MRO)

Chloride (EPA 300)

Date: 10/27/22 1330

Relinquished by: W. Kennedy

Received by: [Signature]

Date: 10/27/22 1330

Remarks: Bill to EOG Artesia

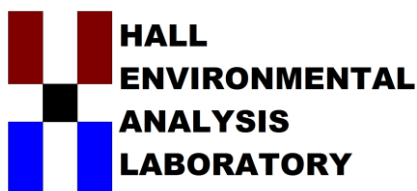
Date: 10/27/22 1900

Relinquished by: [Signature]

Received by: [Signature]

Date: 10/27/22 0830

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)

October 24, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Judson AUU State Com 2

OrderNo.: 2210775

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 4 sample(s) on 10/15/2022 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 light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2210775

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW/25-30

Project: Judson AUU State Com 2

Collection Date: 10/14/2022 12:19:00 PM

Lab ID: 2210775-001

Matrix: MEOH (SOIL)

Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	59		mg/Kg	20	10/17/2022 7:33:10 PM	70866
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/17/2022 5:23:58 PM	70853
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/17/2022 5:23:58 PM	70853
Surr: DNOP	112	21-129		%Rec	1	10/17/2022 5:23:58 PM	70853
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	7.1	3.7		mg/Kg	1	10/15/2022 3:33:09 PM	G91823
Surr: BFB	122	37.7-212		%Rec	1	10/15/2022 3:33:09 PM	G91823
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	10/15/2022 3:33:09 PM	B91823
Toluene	ND	0.037		mg/Kg	1	10/15/2022 3:33:09 PM	B91823
Ethylbenzene	ND	0.037		mg/Kg	1	10/15/2022 3:33:09 PM	B91823
Xylenes, Total	0.18	0.074		mg/Kg	1	10/15/2022 3:33:09 PM	B91823
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	10/15/2022 3:33:09 PM	B91823

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 2210775

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW/25-30

Project: Judson AUU State Com 2

Collection Date: 10/14/2022 12:25:00 PM

Lab ID: 2210775-002

Matrix: MEOH (SOIL)

Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/17/2022 7:45:30 PM	70866
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	130	14		mg/Kg	1	10/17/2022 1:50:26 PM	70853
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/17/2022 1:50:26 PM	70853
Surr: DNOP	106	21-129		%Rec	1	10/17/2022 1:50:26 PM	70853
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	10/15/2022 3:56:36 PM	G91823
Surr: BFB	108	37.7-212		%Rec	5	10/15/2022 3:56:36 PM	G91823
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.086		mg/Kg	5	10/15/2022 3:56:36 PM	B91823
Toluene	ND	0.17		mg/Kg	5	10/15/2022 3:56:36 PM	B91823
Ethylbenzene	ND	0.17		mg/Kg	5	10/15/2022 3:56:36 PM	B91823
Xylenes, Total	1.0	0.35		mg/Kg	5	10/15/2022 3:56:36 PM	B91823
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	5	10/15/2022 3:56:36 PM	B91823

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 2210775

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW/25-30

Project: Judson AUU State Com 2

Collection Date: 10/14/2022 12:31:00 PM

Lab ID: 2210775-003

Matrix: MEOH (SOIL)

Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/17/2022 7:57:51 PM	70866
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	71	14		mg/Kg	1	10/17/2022 2:00:58 PM	70853
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/17/2022 2:00:58 PM	70853
Surr: DNOP	109	21-129		%Rec	1	10/17/2022 2:00:58 PM	70853
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	43	18		mg/Kg	5	10/15/2022 4:20:05 PM	G91823
Surr: BFB	127	37.7-212		%Rec	5	10/15/2022 4:20:05 PM	G91823
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.091		mg/Kg	5	10/15/2022 4:20:05 PM	B91823
Toluene	0.28	0.18		mg/Kg	5	10/15/2022 4:20:05 PM	B91823
Ethylbenzene	0.26	0.18		mg/Kg	5	10/15/2022 4:20:05 PM	B91823
Xylenes, Total	2.4	0.36		mg/Kg	5	10/15/2022 4:20:05 PM	B91823
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	5	10/15/2022 4:20:05 PM	B91823

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 2210775

Date Reported: 10/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WW/25-30

Project: Judson AUU State Com 2

Collection Date: 10/14/2022 12:40:00 PM

Lab ID: 2210775-004

Matrix: MEOH (SOIL)

Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/17/2022 8:10:12 PM	70866
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	120	14		mg/Kg	1	10/17/2022 2:11:32 PM	70853
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/17/2022 2:11:32 PM	70853
Surr: DNOP	113	21-129		%Rec	1	10/17/2022 2:11:32 PM	70853
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	10/15/2022 4:43:30 PM	G91823
Surr: BFB	98.4	37.7-212		%Rec	5	10/15/2022 4:43:30 PM	G91823
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.082		mg/Kg	5	10/15/2022 4:43:30 PM	B91823
Toluene	ND	0.16		mg/Kg	5	10/15/2022 4:43:30 PM	B91823
Ethylbenzene	ND	0.16		mg/Kg	5	10/15/2022 4:43:30 PM	B91823
Xylenes, Total	0.63	0.33		mg/Kg	5	10/15/2022 4:43:30 PM	B91823
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	5	10/15/2022 4:43:30 PM	B91823

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#: 2210775

24-Oct-22

Client: EOG

Project: Judson AUU State Com 2

Sample ID: MB-70866	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 70866	RunNo: 91844
Prep Date: 10/17/2022	Analysis Date: 10/17/2022	SeqNo: 3294671 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-70866	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 70866	RunNo: 91844
Prep Date: 10/17/2022	Analysis Date: 10/17/2022	SeqNo: 3294673 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 95.0 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

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

WO#: 2210775

24-Oct-22

**Client:** EOG**Project:** Judson AUU State Com 2

Sample ID: <b>MB-70853</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>70853</b>		RunNo: <b>91838</b>							
Prep Date: <b>10/17/2022</b>	Analysis Date: <b>10/17/2022</b>		SeqNo: <b>3293382</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		118	21	129			

Sample ID: <b>LCS-70853</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>70853</b>		RunNo: <b>91845</b>							
Prep Date: <b>10/17/2022</b>	Analysis Date: <b>10/17/2022</b>		SeqNo: <b>3293928</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	95.6	64.4	127			
Surr: DNOP	4.7		5.000		94.5	21	129			

**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#: 2210775  
24-Oct-22

Client: EOG  
Project: Judson AUU State Com 2

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G91823			RunNo: 91823						
Prep Date:	Analysis Date: 10/15/2022			SeqNo: 3292452		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.7	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: G91823			RunNo: 91823						
Prep Date:	Analysis Date: 10/15/2022			SeqNo: 3292453		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.6	72.3	137			
Surr: BFB	1800		1000		183	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

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

WO#: 2210775

24-Oct-22

**Client:** EOG**Project:** Judson AUU State Com 2

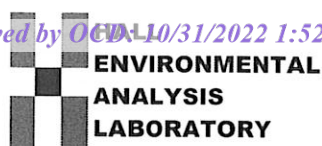
Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>B91823</b>		RunNo: <b>91823</b>							
Prep Date:	Analysis Date: <b>10/15/2022</b>		SeqNo: <b>3292501</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%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	0.94		1.000		93.6	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>B91823</b>		RunNo: <b>91823</b>							
Prep Date:	Analysis Date: <b>10/15/2022</b>		SeqNo: <b>3292502</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	70	130			

**Qualifiers:**

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

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



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: EOG

Work Order Number: 2210775

RcptNo: 1

Received By: Cheyenne Cason 10/15/2022 8:40:00 AM

Completed By: Cheyenne Cason 10/15/2022 9:09:24 AM

Reviewed By: *MC* 10/15/2022*Chad**Chad*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: *MC* 10/15/22

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	0.6	Good	Not Present			

## Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

☒ Standard
 ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☒ NELAC
 ☐ Other

☒ EDD (Type)
 ☐ Excel

Turn-Around Time:

☐ Standard
 ☒ Rush

24-hr

Project Name:

Judson Area State Cont #2

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 0.6-0 = 0.6

Date Time Matrix Sample Name

10/14/2012 12:14 SW 125-30

12:25 EW 125-30

12:31 SW 125-30

12:40 W 125-30

Container Type and #

1 x 4oz Jar

ICE

HEAL No.

2210775

001

002

003

004

Preservative Type

TCE

TPH:8015D(GRO / DRO / MRO)

BTX (8021)

Chloride (EPA 300)

Date: Time: Relinquished by:

10/14/2012 14:15 W. Kennedy

Date: Time: Relinquished by:

10/14/2012 19:00 W. Kennedy

Received by:

Via: Date Time

10/14/2012 14:15

Received by:

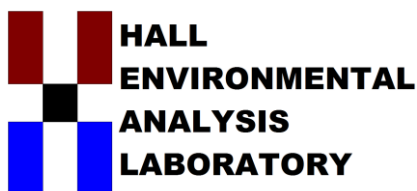
Via: Date Time

10/14/2012 08:40

Remarks: Bill to EOG Artesia

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)

October 31, 2022

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Judson Auu

OrderNo.: 2210C02

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/25/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2210C02

Date Reported: 10/31/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW/25-30

Project: Judson Auu

Collection Date: 10/24/2022 10:53:00 AM

Lab ID: 2210C02-001

Matrix: SOIL

Received Date: 10/25/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/25/2022 9:14:11 PM	71053
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	12		mg/Kg	1	10/26/2022 2:04:57 AM	71048
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	10/26/2022 2:04:57 AM	71048
Surr: DNOP	89.5	21-129		%Rec	1	10/26/2022 2:04:57 AM	71048
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	14		mg/Kg	5	10/25/2022 6:12:46 PM	R92062
Surr: BFB	94.3	37.7-212		%Rec	5	10/25/2022 6:12:46 PM	R92062
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.070		mg/Kg	5	10/25/2022 6:12:46 PM	R92062
Toluene	ND	0.14		mg/Kg	5	10/25/2022 6:12:46 PM	R92062
Ethylbenzene	ND	0.14		mg/Kg	5	10/25/2022 6:12:46 PM	R92062
Xylenes, Total	ND	0.28		mg/Kg	5	10/25/2022 6:12:46 PM	R92062
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	5	10/25/2022 6:12:46 PM	R92062

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	Above Quantitation Range/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 standard limits. If undiluted results may be estimated.		

Page 1 of 7

## Analytical Report

Lab Order 2210C02

Date Reported: 10/31/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW/25-30

Project: Judson Auu

Collection Date: 10/24/2022 11:41:00 AM

Lab ID: 2210C02-002

Matrix: SOIL

Received Date: 10/25/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	59		mg/Kg	20	10/25/2022 9:51:24 PM	71053
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 2:18:09 AM	71048
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/26/2022 2:18:09 AM	71048
Surr: DNOP	93.3	21-129		%Rec	1	10/26/2022 2:18:09 AM	71048
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	14		mg/Kg	5	10/25/2022 6:36:13 PM	R92062
Surr: BFB	95.9	37.7-212		%Rec	5	10/25/2022 6:36:13 PM	R92062
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.069		mg/Kg	5	10/25/2022 6:36:13 PM	R92062
Toluene	ND	0.14		mg/Kg	5	10/25/2022 6:36:13 PM	R92062
Ethylbenzene	ND	0.14		mg/Kg	5	10/25/2022 6:36:13 PM	R92062
Xylenes, Total	ND	0.28		mg/Kg	5	10/25/2022 6:36:13 PM	R92062
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	10/25/2022 6:36:13 PM	R92062

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	Above Quantitation Range/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 standard limits. If undiluted results may be estimated.		

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## Analytical Report

Lab Order 2210C02

Date Reported: 10/31/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WW/25-30

Project: Judson Auu

Collection Date: 10/24/2022 11:44:00 AM

Lab ID: 2210C02-003

Matrix: SOIL

Received Date: 10/25/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/25/2022 10:03:48 PM	71053
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/26/2022 2:31:47 AM	71048
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/26/2022 2:31:47 AM	71048
Surr: DNOP	92.4	21-129		%Rec	1	10/26/2022 2:31:47 AM	71048
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	16		mg/Kg	5	10/25/2022 6:59:38 PM	R92062
Surr: BFB	97.0	37.7-212		%Rec	5	10/25/2022 6:59:38 PM	R92062
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.081		mg/Kg	5	10/25/2022 6:59:38 PM	R92062
Toluene	ND	0.16		mg/Kg	5	10/25/2022 6:59:38 PM	R92062
Ethylbenzene	ND	0.16		mg/Kg	5	10/25/2022 6:59:38 PM	R92062
Xylenes, Total	ND	0.32		mg/Kg	5	10/25/2022 6:59:38 PM	R92062
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	10/25/2022 6:59:38 PM	R92062

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	Above Quantitation Range/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 standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210C02  
31-Oct-22

Client: EOG  
Project: Judson Auu

Sample ID: MB-71053	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 71053	RunNo: 92054								
Prep Date: 10/25/2022	Analysis Date: 10/25/2022	SeqNo: 3304348	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-71053	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 71053	RunNo: 92054								
Prep Date: 10/25/2022	Analysis Date: 10/25/2022	SeqNo: 3304349	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.5	90	110			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

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

WO#: 2210C02

31-Oct-22

**Client:** EOG  
**Project:** Judson Auu

Sample ID: <b>MB-71048</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>71048</b>		RunNo: <b>92056</b>							
Prep Date: <b>10/25/2022</b>	Analysis Date: <b>10/25/2022</b>		SeqNo: <b>3305026</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	9.6		10.00		95.8	21	129			

Sample ID: <b>LCS-71048</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>71048</b>		RunNo: <b>92056</b>							
Prep Date: <b>10/25/2022</b>	Analysis Date: <b>10/25/2022</b>		SeqNo: <b>3305027</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.3	64.4	127			
Surr: DNOP	4.5		5.000		89.1	21	129			

Sample ID: <b>MB-71024</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>71024</b>		RunNo: <b>92056</b>							
Prep Date: <b>10/24/2022</b>	Analysis Date: <b>10/25/2022</b>		SeqNo: <b>3307125</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.1	21	129			

Sample ID: <b>LCS-71024</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>71024</b>		RunNo: <b>92056</b>							
Prep Date: <b>10/24/2022</b>	Analysis Date: <b>10/25/2022</b>		SeqNo: <b>3307126</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.5	21	129			

**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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank  
E Above Quantitation Range/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#: 2210C02

31-Oct-22

**Client:** EOG  
**Project:** Judson Auu

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>R92062</b>			RunNo: <b>92062</b>						
Prep Date:	Analysis Date: <b>10/25/2022</b>			SeqNo: <b>3303713</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	940		1000		93.5	37.7	212			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>R92062</b>			RunNo: <b>92062</b>						
Prep Date:	Analysis Date: <b>10/25/2022</b>			SeqNo: <b>3303714</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	94.2	72.3	137			
Surr: BFB	1900		1000		187	37.7	212			

Sample ID: <b>mb-II</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>R92062</b>			RunNo: <b>92062</b>						
Prep Date:	Analysis Date: <b>10/26/2022</b>			SeqNo: <b>3303737</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.3	37.7	212			

Sample ID: <b>2.5ug gro lcs-II</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>R92062</b>			RunNo: <b>92062</b>						
Prep Date:	Analysis Date: <b>10/26/2022</b>			SeqNo: <b>3303738</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	2100		1000		206	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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank  
E Above Quantitation Range/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#: 2210C02

31-Oct-22

**Client:** EOG  
**Project:** Judson Auu

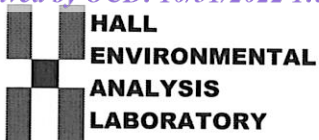
Sample ID: <b>mb</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>R92062</b>			RunNo: <b>92062</b>						
Prep Date:	Analysis Date: <b>10/25/2022</b>			SeqNo: <b>3303765</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%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>100ng btex lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>R92062</b>			RunNo: <b>92062</b>						
Prep Date:	Analysis Date: <b>10/25/2022</b>			SeqNo: <b>3303766</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	97.3	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of standard limits. If undiluted results may be estimated.

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



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

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2210C02

RcptNo: 1

Received By: Juan Rojas 10/25/2022 7:20:00 AM

Completed By: Kasandra Jimena Garcia 10/25/2022 8:24:39 AM

Reviewed By: *[Signature]* 10-25-22*[Signature]**[Signature]***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? 25

Checked by: JR 10/25/22

*JR 10/25/22*

**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	2.2	Good				

## Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

☒ Standard
 ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☒ NELAC
 ☐ Other

☒ EDD (Type)
 ☐ Excel

Turn-Around Time:  
☐ Standard ☒ Rush 24-hr  
 Project Name: Judson Ann per Enn sub validation  
 Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KennedyOn Ice: ☐ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 23.0.1=2.2

Container Type and #

Preservative Type

HEAL No.

BTX (8021)

TPH:8015D(GRO / DRO / MRO)

Chloride (EPA 300)

Date: 10/24/22 Time: 1300 Relinquished by: W. Kennedy  
 Date: 10/24/22 Time: 1400 Relinquished by: W. Kennedy  
 Date: 10/24/22 Time: 1400 Relinquished by: W. Kennedy

Remarks: Bill to EOG Artesia

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**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

## ATTACHMENT 3 – NMOCD CORRESPONDENCE



---

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
**Sent:** Wednesday, August 24, 2022 3:07 PM  
**To:** Katie Jamison <[Katie\\_Jamison@eogresources.com](mailto:Katie_Jamison@eogresources.com)>  
**Subject:** The Oil Conservation Division (OCD) has approved the application, Application ID: 137551

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

To whom it may concern (c/o Katie Jamison for EOG RESOURCES INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nOY1727031593, with the following conditions:

- **Please secure segregated soils from possible rain impact.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,  
Bradford Billings  
Hydrologist/E.Spec.A  
505-670-6549  
[bradford.billings@state.nm.us](mailto:bradford.billings@state.nm.us)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505



---

**From:** Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
**Sent:** Wednesday, September 7, 2022 8:38 AM  
**To:** [emnrd-ocd-district1spills@state.nm.us](mailto:emnrd-ocd-district1spills@state.nm.us); [mnaranjo@slo.state.nm.us](mailto:mnaranjo@slo.state.nm.us); [rmann@slo.state.nm.us](mailto:rmann@slo.state.nm.us)  
**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:** Judson AUU State Com 2 (nOY1727031593/1RP-4826) Sampling Notification

Good Morning,

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

Judson AUU State Com 1  
O-26-10S-34E  
Lea County, NM  
nOY1727031593/1RP-4826

Sampling will begin at 10:00 a.m. on Friday, September 9, 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**

---

**From:** Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
**Sent:** Thursday, September 8, 2022 11:18 AM  
**To:** EMNRD-OCD-District1spills <[EMNRD-OCD-District1spills@state.nm.us](mailto:EMNRD-OCD-District1spills@state.nm.us)>; [rmann@slo.state.nm.us](mailto:rmann@slo.state.nm.us);  
[mnanranjo@slo.state.nm.us](mailto:mnanranjo@slo.state.nm.us)  
**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:** [EXTERNAL] Judson AUU State Com 2 (1RP-4826/nOY1727031593) Sampling Notification

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

Good Morning,

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

Judson AUU State Com 2  
O-26-10S-34E  
Lea County, NM  
1RP-4826/nOY1727031593

Sampling will begin at 7:00 a.m. on Tuesday, September 13, 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**

---

From: Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
Sent: Thursday, September 15, 2022 10:25 AM  
To: [emnrd-ocd-district1spills@state.nm.us](mailto:emnrd-ocd-district1spills@state.nm.us); [rmann@slo.state.nm.us](mailto:rmann@slo.state.nm.us); [mharanjo@slo.state.nm.us](mailto:mharanjo@slo.state.nm.us)  
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: Judson AUU State Com 2 (1RP-4826/nOY1727031593) Sampling Notification

Good Morning,

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

Judson AUU State Com 2  
O-28-10S-34E  
Lea County, NM  
1RP-4826/nOY1727031593

Sampling will begin at 12:00 p.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**

## Subject: Judson AUU State Com 2 (1RP-4826/nOY1727031593) Sampling |



**Tina Huerta** <Tina\_Huerta@eogresources.com>

to ocd.enviro@emnrd.nm.gov, Griffin, Becky R., Barnes, Will, Artesia S&E Spill Remediation, Artesia Regulatory

You are viewing an attached message. Rangerenv.com Mail can't verify the authenticity of attached messa

Good Morning,

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

Judson AUU State Com 2  
O-26-10S-34E  
Lea County, NM  
1RP-4826/nOY1727031593

Sampling will begin at 10:00 a.m. on Monday, October 3, 2022 and continue through Friday, October 7, 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**

---

From: Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>

Sent: Thursday, October 6, 2022 8:26 AM

To: [ood.enviro@emnrd.nm.gov](mailto:ood.enviro@emnrd.nm.gov); Griffin, Becky R. <[bgriffin@sio.state.nm.us](mailto:bgriffin@sio.state.nm.us)>; Barnes, Will <[wbarnes@sio.state.nm.us](mailto:wbarnes@sio.state.nm.us)>

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: Judson AUU State Com 2 (1RP-4826/ nOY1727031593) Sampling Notification

Good Morning,

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

Judson AUU State Com 2  
O-26-10S-34E  
Lea County, NM  
1RP-4826/nOY1727031593

Sampling will begin at 10:00 a.m. on Monday, October 10, 2022 and continue through Friday, October 14, 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**

---

**From:** Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
**Sent:** Thursday, October 20, 2022 10:20 AM  
**To:** [ocd.enviro@emnrd.nm.gov](mailto:ocd.enviro@emnrd.nm.gov); Griffin, Becky R. <[bgriffin@slo.state.nm.us](mailto:bgriffin@slo.state.nm.us)>; Barnes, Will <[wbarnes@slo.state.nm.us](mailto:wbarnes@slo.state.nm.us)>  
**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:** Judson AUU State Com 2 (1RP-4826) Sampling Notification

Good Morning,

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

Judson AUU State Com 2  
O-26-10S-34E  
Lea County, NM  
1RP-4826

Sampling will begin at 10:00 a.m. on Monday, 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**



**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 155017

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 155017
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/28/2023