

# SITE CHARACTERIZATION AND PROPOSED REMEDIATON PLAN

COPELAN FEDERAL #1 UNIT N, SECTION 5, TOWNSHIP 19S, RANGE 25E EDDY COUNTY, NEW MEXICO 32.68459, -104.50919 RANGER REFERENCE NO. 5375

**PREPARED FOR:** 

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

PREPARED BY:

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

JUNE 15, 2022

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

William Kierdorf, REM Project Manager

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# **FORM C-141**

### FIGURES

- Topographic Map
- Area Map
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- National Wetland Inventory Map
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- Karst Topography Map
- Assessment Sample Location Map
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### TABLES

- 2021 Site Assessment Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data
- 2022 Site Assessment Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

# ATTACHMENTS

- Attachment 1 Depth-to-Groundwater Data
- Attachment 2 Photographic Documentation
- Attachment 3 Laboratory Analytical Reports
- Attachment 4 James H & Betty R Howell Revocable Trust Seed Mix



### SITE CHARACTERIZATION AND PROPOSED REMEDIATION PLAN COPELAN FEDERAL #1 UNIT N, SECTION 5, TOWNSHIP 19S, RANGE 25E EDDY COUNTY, NEW MEXICO 32.68459, -104.50919 RANGER REFERENCE NO. 5375

# 1.0 SITE LOCATION AND BACKGROUND

The Copelan Federal #1 (Site) is a former oil and gas well location historically operated by EOG Resources, Inc. (EOG). The Site is located on State land, approximately 12.6 miles south-southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit N, Section 5, T19S-R25E at GPS coordinates 32.68459, -104.50919.

On June 9, 2021, EOG was informed of an area of potential contamination located to the south of the former well pad location. The area was reported to EOG by Atkins Engineering Associates (AEA) on behalf of Howell Ranch Revocable Trust (Howell Ranch). The notice included details of the reported location and preliminary laboratory data indicating a sample collected in the area exhibited a chloride concentration of 4,000 parts per million.

On June 10, 2021, a Bureau of Land Management (BLM) Notice of Written Order was received by EOG regarding the subject Site. The notice outlined a lack of vegetation on the former well pad area and access road. The notice also noted the area south of the former well pad previously reported to EOG by AEA.

EOG Resources, Inc. (EOG) subsequently engaged Ranger Environmental Services, Inc. (Ranger) to assist in the assessment of the reported area and to address the outstanding reclamation efforts at the Site. On June 24, 2021, Ranger and EOG personnel conducted an initial site inspection to document the current conditions at the location and determine an appropriate course of action for the Site. On August 27, 2021, Ranger prepared a *Proposed Assessment and Reclamation Plan* to address the outstanding reclamation efforts and assessment of the reported impacted area at the site. A copy of the plan is available upon request.

In March 2022, Ranger personnel completed the assessment activities detailed in the *Proposed Assessment and Reclamation Plan.* Upon completion of the assessment activities, all field readings and laboratory analytical results indicated that the area reported to EOG by AEA contained soil concentrations within the applicable 19.15.29.12 Table 1 Criteria.

Prior to commencement of the proposed reclamation activities, in February 2022, EOG was alerted to an additional area of concern identified by Howell Ranch Representatives. Based on the supplied information, an Electromagnetic (EM) Survey had been completed at the Site. The findings of the EM survey indicated that multiple areas of elevated conductivity, possibly related to elevated chloride concentrations, were identified at the Site. Ranger personnel subsequently conducted assessment activities at the reported areas in February and March of 2022 which included the collection of soil samples for laboratory analysis. Due to the observed size of the

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P.O. BOX 201179 AUSTIN, TX 78720 OFFICE: 512/335-1785 FAX: 512/335-0527

impacted areas, the incident was reported to the New Mexico Oil Conservation Division (NMOCD) on March 24, 2022 (NMOCD Incident # nAPP2208337232).

The following proposed remediation work plan has been prepared to address the soil impacts at the Site.

A copy of the previously submitted Form C-141 Release Notification, as well as the Site Assessment/Characterization and Remediation Plan sections of Form C-141, are attached. A Topographic Map and Area Map noting the location of the subject Site and surrounding areas, and a Site Map illustrating the Site features and sampling locations, are provided in the Figures section.

## 2.0 SITE CHARACTERIZATION

### 2.1 <u>Depth-to-Groundwater</u>

To determine the depth to groundwater in the vicinity of the Site, data available from the U.S. Geological Survey (USGS) and the New Mexico Office of the State Engineer (NMOSE) was reviewed. Based upon the reviewed information, information deemed acceptable to the NMOCD is limited. No wells were identified within a half-mile of the Site upon review of the USGS data. Well information available from the NMOSE was limited to one well ("RA-05331") located within a half-mile of the Site. The depth-to-groundwater in this well was reported to be 305 feet below ground surface (bgs); however, this data was noted to be greater than 25 years old and as such is not acceptable per NMOCD criteria.

During review of the Site Characterization information for the area, Ranger was informed of a current depth-to-groundwater investigation that was being conducted less than a half-mile northnortheast of the Site. This investigation was being conducted to gather depth-to-groundwater information for a separate EOG-related release incident that is unrelated to the subject site. As with the subject Site, the depth-to-groundwater information for this site was also found to be limited. As such, a soil boring/temporary monitor well was installed by representatives of GHD and HCI Drilling in May 2022 to gather current depth-to-groundwater data.

As summarized above, the temporary well (located at GPS Coordinates 32.690553 -104.507228) was installed within a half-mile radius of the subject Site. Based upon the GHD boring log (copy included in Attachment 1), the soil boring was drilled to a depth of approximately 109 feet bgs and a two-inch temporary monitor well was installed. The monitor well was allowed to equilibrate for five days and was then gauged with a Solinst water level meter on May 11, 2022 and was found to be dry, thus documenting that the depth-to-groundwater was greater than 100 feet bgs.

Based upon the GHD depth-to-groundwater investigation results and the reviewed NMOSE information, the depth-to-groundwater in the area of the Site appears to be greater than 100 feet bgs.

Copies of the reviewed depth-to-groundwater information are attached.



### 2.2 <u>Wellhead Protection Area</u>

Based upon the USGS and NMOSE information, one potential water source ("RA-05331") was identified within a half-mile of the Site. It should be noted that the above-discussed GHD temporary monitor well was installed solely for depth-to-groundwater investigation purposes, was not utilized as a water source, and was plugged and abandoned following the gauging of the well on May 11, 2022.

Upon review of the National Wetland Inventory, the Site is not within 300 feet of a mapped feature.

The Site and impacted area are outside of the FEMA 100-year flood plain and fall in the area of minimal flood hazard.

The Site is noted to be in an area of "Medium Karst" probability.

### 2.3 <u>Distance to Nearest Significant Watercourse</u>

Based upon available online resources, no significant watercourses are present within a half-mile of the Site.

### 2.4 <u>Closure Criteria</u>

Based upon the Site characterization details, the Site is proposed to be remediated to Table 1 19.15.29.12 NMAC (groundwater >100' feet) criteria. Additionally, the remediation activities will be completed 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 (Restoration Criteria). The proposed closure criteria are detailed below:

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	TPH (GRO+DRO)	BTEX	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW >100')	20,000	2,500	1,000	50	10
19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100 <sup>1</sup>		50 <sup>1</sup>	10 <sup>1</sup>

All Values Presented in Parts Per Million (mg/Kg)

1. 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.



## 3.0 SITE ASSESSMENT ACTIVITIES

### 3.1 Initially Reported Area & 2021 Assessment Activities

As previously stated, in June 2021, EOG was informed of an area of potential impacts located to the south of the Copelan Federal #1 well pad boundary. On September 28, 2021, Ranger personnel and representatives of EOG mobilized to the Site to assess the reported area. During the assessment process, a total of five test excavations ("TH-1" through "TH-5") were completed for soil sampling purposes.

During the test excavation installation process, Ranger personnel conducted field screening of the generated soils using an organic vapor monitor (OVM) and a field chloride titration kit. Field screening of the encountered soils was conducted at the surface and at one-foot increments to the total test excavation depths. Four of the five test excavations were completed to four foot bgs, and one test excavation ("TH-1") was completed to five feet bgs. During the installation process, the collected field readings indicated that the encountered soils appeared to be in compliance with the most stringent NMAC 19.15.29.12 Table 1 Criteria.

Upon completion of the test excavation installation process, confirmatory soil samples were collected from each test excavation for laboratory analysis. Samples were collected at the surface, approximate mid-point, and total depth of each test excavation.

Upon collection, the soil samples were submitted to Hall Environmental Laboratory, Inc. in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and, total chloride using EPA Method 300. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Upon review of the laboratory analytical results, all samples collected during the performance of the September 2021 assessment activities were documented to contain nondetectable BTEX, TPH and Chloride concentrations. The laboratory detection limits were well below the most stringent NMAC 19.15.29.12 Table 1 Criteria.

The soil sample analytical results are summarized in the attached soil analytical table ("2021 Site Assessment Soil BTEX, TPH & Chloride Analytical Data"). Copies of the laboratory analytical reports are also attached.

### 3.1 February 2022 Reported Areas & Associated Assessment Activities

Prior to the commencement of reclamation activities at the Site, in February 2022, EOG was informed of additional areas of concern located at the Site. Based on the findings of an EM Survey completed by representatives of Howell Ranch, areas of elevated conductivity readings that were believed to be associated with elevated chloride concentrations were identified. A total of four locations were identified on the former well pad area that appeared to warrant assessment. Between February 9, 2022 and March 2, 2022, Ranger personnel and representatives of EOG conducted assessment activities in these locations.

During the assessment process, test excavations were completed at locations both within and surrounding the potential impact areas identified by the EM survey. A total of 24 test excavations ("TH-6" through "TH-29") were completed at the Site during February and March 2022. Ranger



personnel once again conducted field screening of the soils using an OVM and a field chloride titration kit. Elevated field chloride readings were documented in two of the four reported areas.

Soil samples for laboratory analysis were subsequently collected from each completed test excavation. A total of 48 soil samples were collected for laboratory analysis during the February and March 2022 site assessment activities. Upon collection, the soil samples were submitted to Hall Environmental Laboratory, Inc. in Albuquerque, New Mexico for analysis of TPH, BTEX, and total chloride using the aforementioned laboratory methods. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Upon review of the soil sample laboratory analytical results, the two areas which had exhibited elevated field readings were confirmed to contain chloride concentrations in the surface to four-foot depth interval that are in exceedance of the applicable NMAC Restoration Criteria.

The soil sample analytical results are summarized in the attached soil analytical table ("2022 Site Assessment Soil BTEX, TPH & Chloride Analytical Data"). Copies of the laboratory analytical reports are also attached.

## 4.0 PROPOSED REMEDIATION PLAN

### 4.1 Impacted Soil Excavation

To address the elevated soil chloride concentrations in the 0'-4' bgs depth interval, soil removal operations are proposed for both of the affected areas. Two separate excavation areas will be completed. Along the southern well pad boundary, excavation activities will be completed in an irregular shape with anticipated maximum dimensions of approximately 90 feet by 87 feet. Based on the site assessment results, this affected area will be excavated to depths of two and four feet bgs. In the northwestern portion of the pad, a rectangular-shaped excavation will be completed to anticipated dimensions of approximately 45 feet by 28 feet by 4 feet deep.

The attached *Proposed Excavation and Sample Location Map* illustrates the location of the two proposed excavation areas and the anticipated excavation depths.

Based on the proposed excavation boundaries and depths it is anticipated that approximately 300 cubic yards of material will be generated during the site remediation process. The excavated material will be transported off-site for disposal at an approved disposal facility.

### 4.2 Field Screening and Confirmation Sampling

During the soil removal process, Ranger personnel will field screen the excavation floor and walls using both an OVM and field chloride titration kit. The field screening results will be utilized to guide the excavation process and qualitatively determine when all soils exceeding 600 mg/Kg chloride appear to have been removed. When the field screening results indicate that the affected 0'-4' soils exceeding 600 mg/Kg chloride appear to have been removed, then Ranger will collect cleanup confirmation soil samples for laboratory analysis to confirm attainment of the 19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils).

Discrete grab soil samples are proposed to be collected in the areas where the vertical extent of excavation is to be completed to four feet bgs. Due to the fact that the prior assessment results



documented the absence of any exceedances of the 19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW >100') in the soils below four feet bgs, the proposed discrete grab soil samples will be collected in order to further confirm that these areas are in compliance with the Table 1 Criteria. The attached *Proposed Excavation and Sample Location Map* illustrates the proposed excavation floor sample locations.

To confirm that the excavation side walls and areas completed to depths of less than four feet bgs are in attainment of the 19.15.29.13 NMAC Reclamation Criteria, soil samples will be collected from these areas in accordance with NMAC 19.15.29.12(D), as five-part composite samples with each sample representing no more than 200 square feet. The samples will be collected from various locations and depths along the excavation side walls and base. Upon collection, the composite sample parts will be placed into a new Ziplock® bag, thoroughly mixed, and a sample for laboratory analysis will be collected from the mixture.

The cleanup confirmation soil samples will be collected using standard QA/QC procedures, placed into laboratory-supplied containers, and will be immediately placed into a sample shuttle containing ice. The samples will be transported to an approved laboratory for analysis of TPH using EPA Method 8015; BTEX using EPA Method 8021; and, total chloride using EPA Method 300.

## 4.3 <u>Excavation Backfill and Re-Vegetation</u>

Upon attainment of the 19.15.29.13 NMAC Reclamation Criteria, the excavated area will be backfilled with clean fill material. The excavated areas will be backfilled to grade with clean fill material of similar type to that which was removed. Due to the location of the proposed remediation areas, re-vegetation efforts in these areas will be completed in conjunction with the remaining reclamation efforts at the Site. The areas will ultimately be re-vegetated with the James H & Betty R Howell Revocable Trust Seed Mix.

### 4.4 <u>Remediation Schedule</u>

Upon approval of the proposed remediation plan, all field activities will be scheduled as soon as reasonably possible. It is anticipated that the soil removal operations and cleanup confirmation soil sampling activities will be completed within 120 days of initiation.

Appropriate notification to the NMOCD will be provided prior to the performance of the cleanup confirmation soil sampling activities.

# 5.0 SITE CLOSURE

Upon completion of the remedial and backfilling activities at the Site, a C-141 Closure Report will be submitted to the NMOCD, and site closure will be requested. The Closure Report will be completed in accordance with the closure reporting criteria detailed in NMAC 19.15.29.12(E).



# **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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2208337232
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # <i>nAPP2208337232</i>
Contact mailing address 104 S. 4th Street, Artesia, NM 88	3210

# **Location of Release Source**

Latitude 32.68459

Longitude -104.50919 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Copelan Federal #1	Site Type Well Pad
Date Release Discovered 03/23/2022	API# 30-015-23720

Unit Letter	Section	Township	Range	County
N	5	19S	25E	Eddy

Surface Owner: State Federal Tribal Private (*Name:* Howell Ranch

# Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
appe that i	ice was submitted by the landowner for ar ared to be impacted. The consultant retai t most likely meets reportable criteria on 3 ssment that has been completed to date.	area on the previously reclaimed pad that ned to investigate the area provided notice /23/2022, based on the initial delineation

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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by $10.15, 20.7(A)$ NMA C2	
19.15.29.7(A) NMAC?	
🗌 Yes 🔽 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

# **Initial Response**

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

 $\checkmark$  The source of the release has been stopped.

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

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

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

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

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Chase Settle

Signature: Chase Settle

Title: Rep Safety & Environmental Sr

email: Chase\_Settle@eogresources.com

Date: 03/24/2022

Telephone: 575-748-1471

OCD Only

Received by:

Jocelyn Harimon

Date: 03/24/2022

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# Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Tonographic/Aerial mans

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.

Received by OCD: 6/16	/2022 12:51:54 PM State of New Mexico			Page 13cof 144
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regulations all operators public health or the envir failed to adequately inve addition, OCD acceptance and/or regulations. Printed Name: Signature:	information given above is true and complete to the are required to report and/or file certain release nor ronment. The acceptance of a C-141 report by the estigate and remediate contamination that pose a thr ce of a C-141 report does not relieve the operator o	tifications and perform of OCD does not relieve th reat to groundwater, surf f responsibility for comp 	corrective actions for rele e operator of liability sh ace water, human health pliance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
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Oil Conservation Division

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

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# **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Title: Signature: Date: Telephone: \_\_\_\_\_ email: OCD Only Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

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Oil Conservation Division

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# Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_ Signature: Date: Telephone: email: **OCD Only** Received by: Date: Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:	Date:
Printed Name:	Title:

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	92894
	Action Type:
	2022 [C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C- 141	3/24/2022

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Action 92894

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release  $\bowtie$
- $\boxtimes$ Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- $\boxtimes$ 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.

 $\boxtimes$ Field data

Page 3

Received by OCD: 6/16/20	022 12:51:54 PM State of New Mexico			Page 18 of 144
			Incident ID	nAPP2208337232
Page 4	Oil Conservation Division	on	District RP	
			Facility ID	
			Application ID	
regulations all operators ar public health or the environ failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: <u>Chase</u> Signature: <u>Chase</u>		notifications and perform c he OCD does not relieve the threat to groundwater, surfa r of responsibility for comp	orrective actions for rele e operator of liability sho ace water, human health liance with any other fee ety & Environme	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

**Received by OCD: 6/16/2022 12:51:54 PM** Form C-141 State of New Mexico

Oil Conservation Division

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

Incident ID	nAPP2208337232
District RP	
Facility ID	
Application ID	

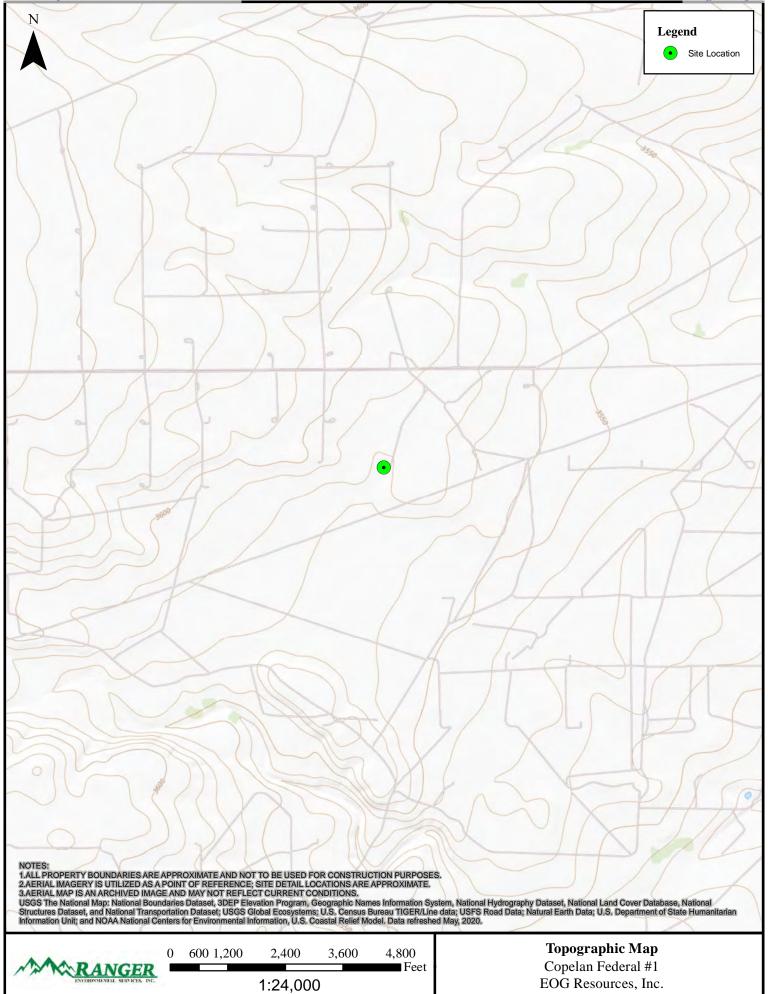
# **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Chase Settle \_\_\_\_\_ Title: Rep Safety & Environmental Sr Signature: Chase Settle Date: 06/16/2022 Telephone: 575-748-1471 email: Chase Settle@eogresources.com OCD Only Received by: Date: Approved with Attached Conditions of Approval Deferral Approved Approved Denied Signature: Date:

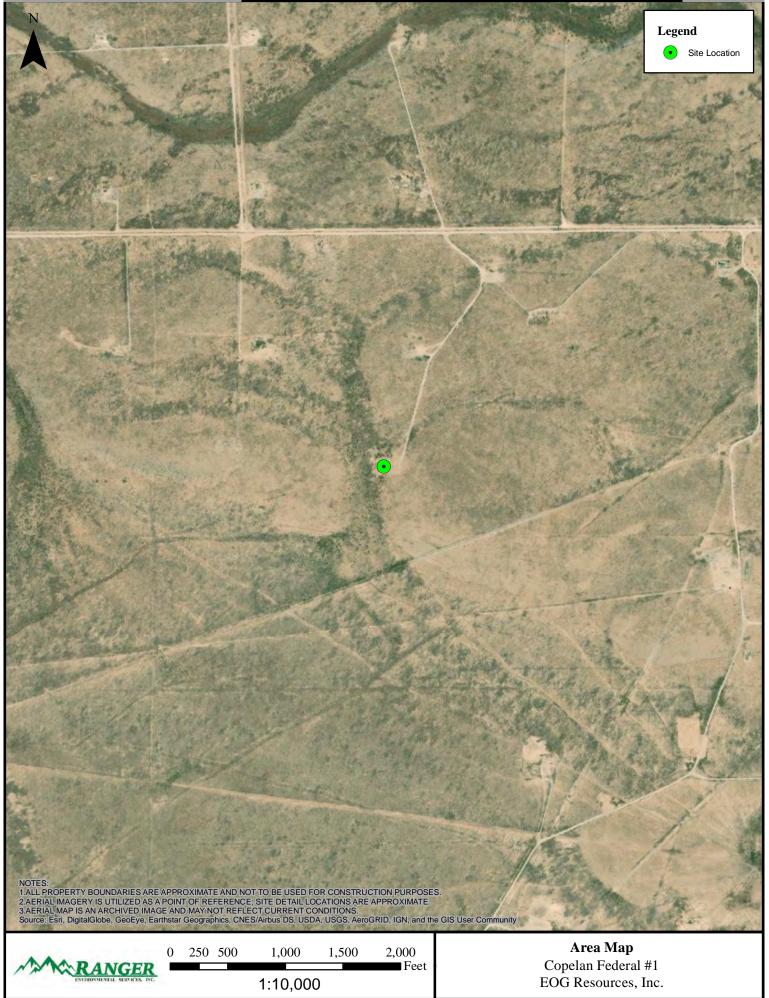
Page 5

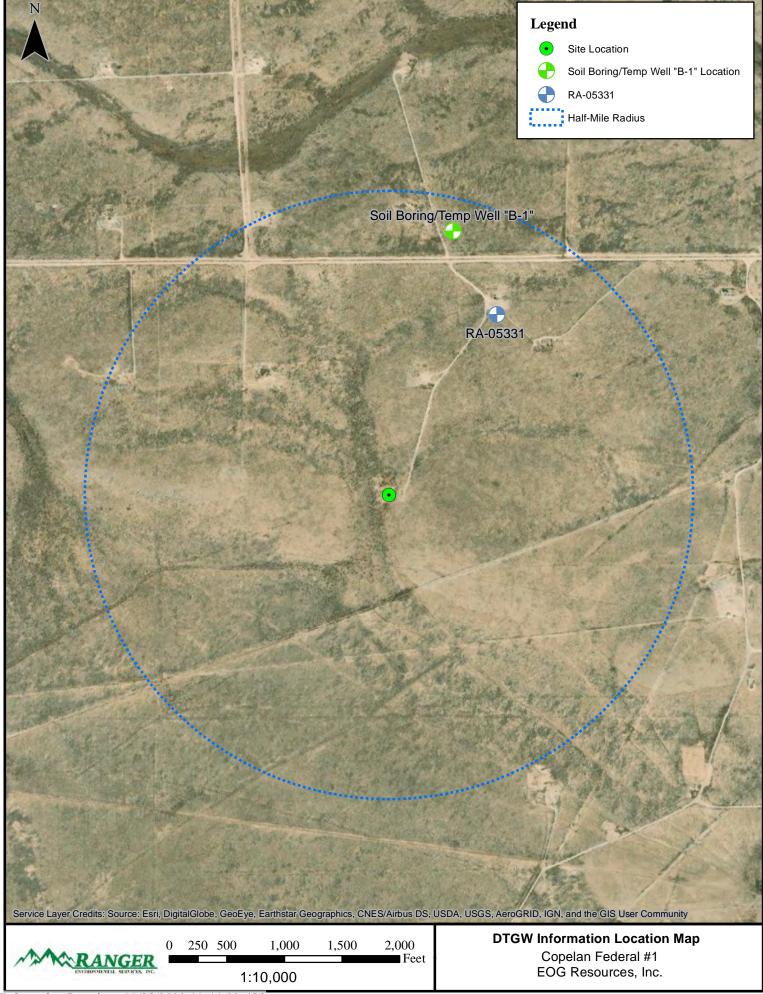
# **FIGURES**

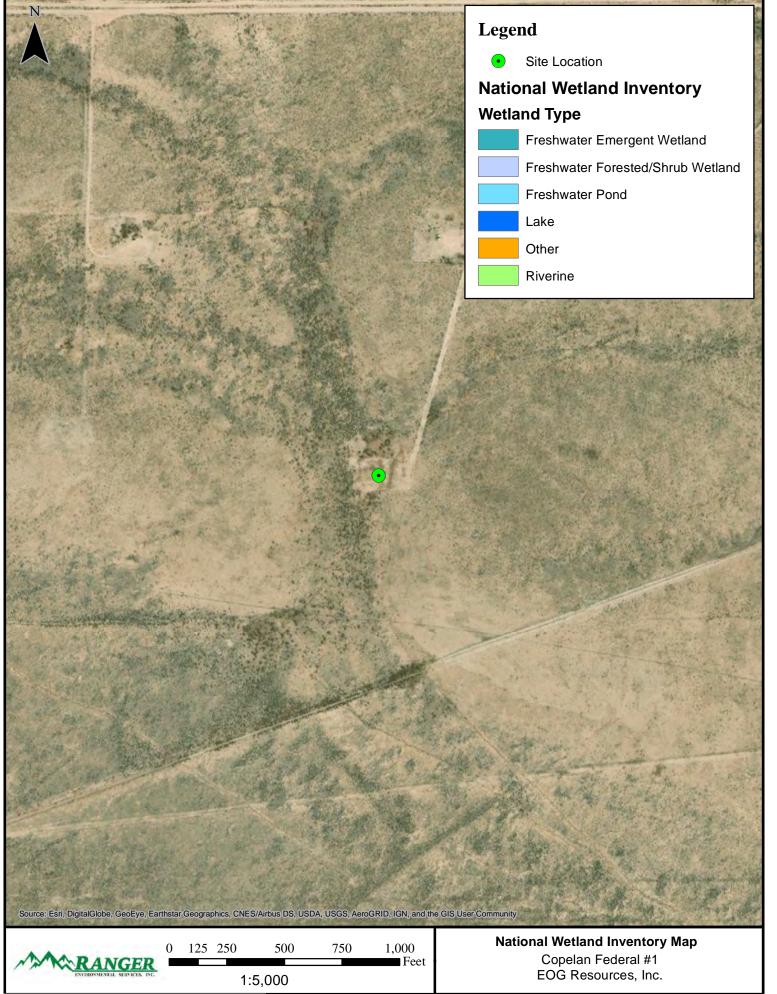
Topographic Map Area Map DTGW Information Location Map National Wetland Inventory Map FEMA Floodplain Map Karst Topography Map Assessment Sample Location Map Proposed Excavation and Sample Location Map Received by OCD: 6/16/2022 12:51:54 PM

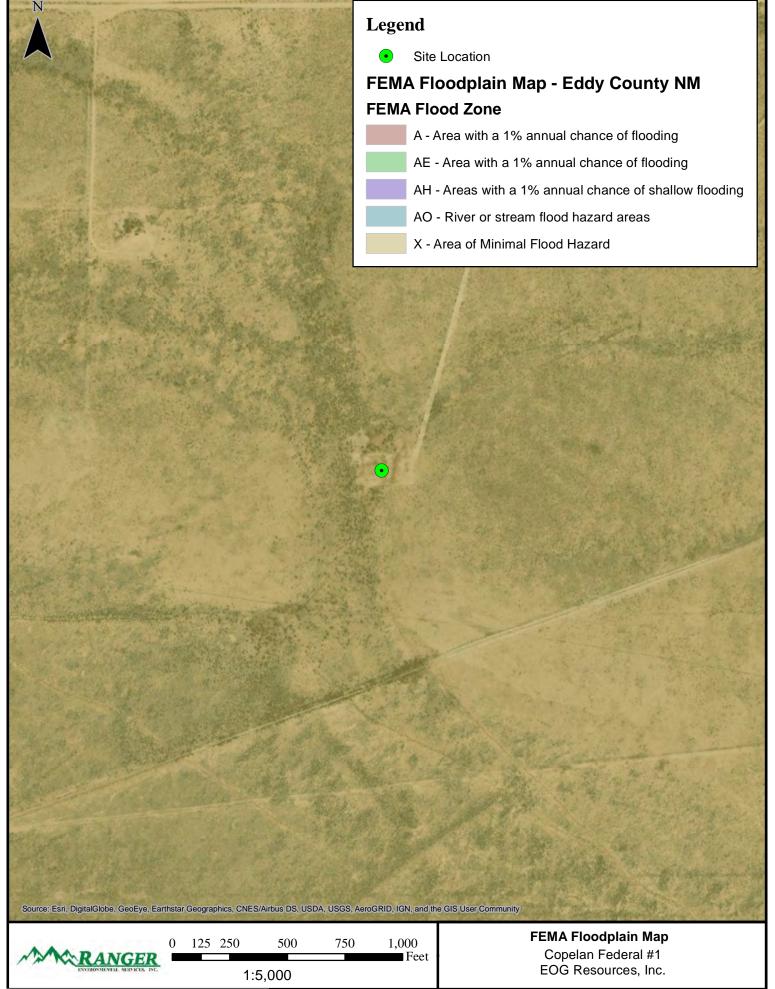


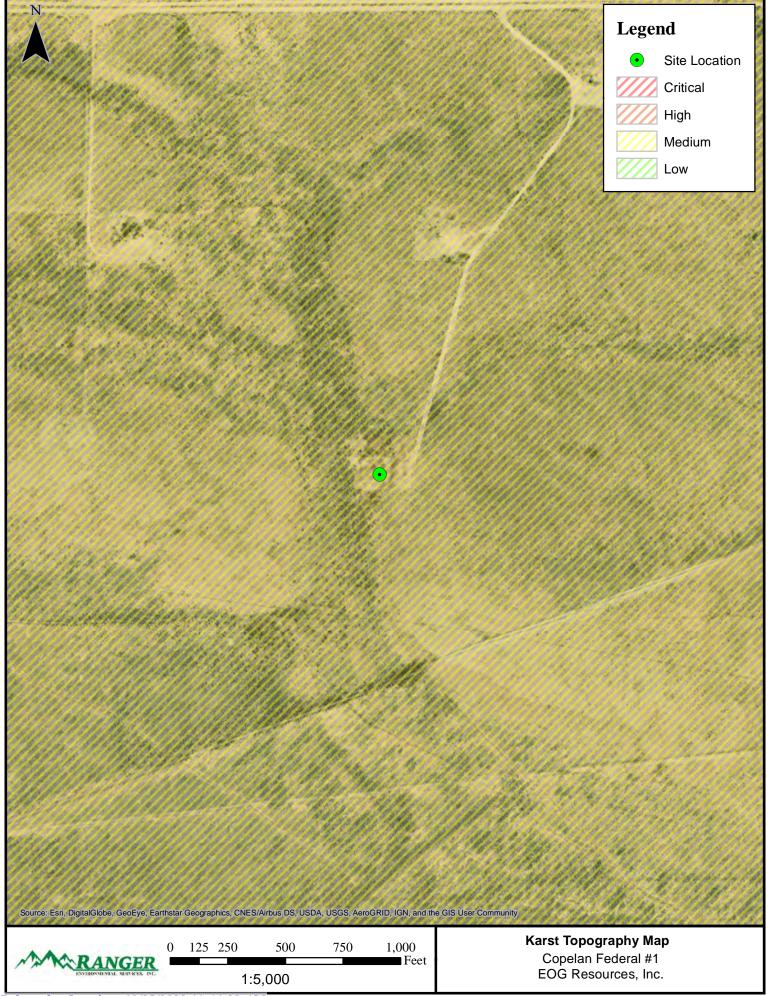
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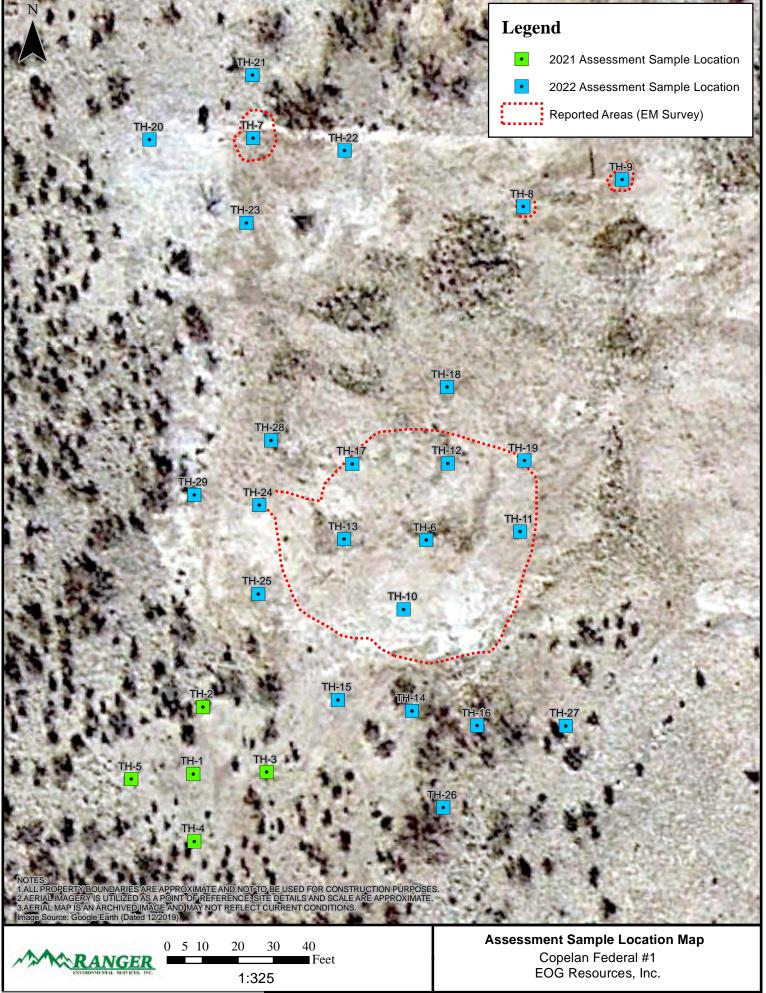


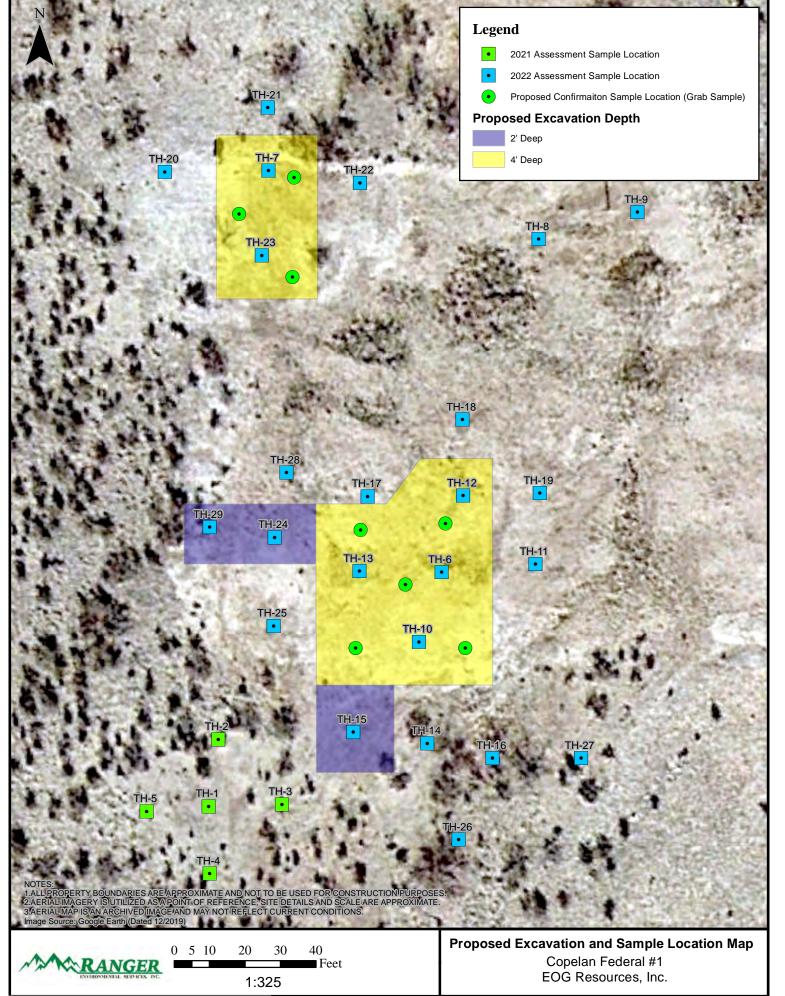












Released to Imaging: 10/25/2022 11:46:29 AM

# TABLES

2021 Site Assessment Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

2022 Site Assessment Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

#### 2021 SITE ASSESSMENT SOIL BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA EOG RESOURCES, INC. COPELAN FEDERAL #1

				All valu	ues presente	d in parts pei	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
Reported Area South of Wel	l Pad Soil Sam	ples (09/28/2	021)										
TH-1/0'	9/28/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	<60
TH-1/2'	9/28/2021	2'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.6	<48	<9.6	<48	<60
TH-1/4'	9/28/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.4	<47	<9.4	<47	<60
<b>T</b> U 0/01	0/00/0004	0'	10.005	-0.040	10.040	-0.000	10.40		-10	-50	-10	-50	-00
TH-2/0'	9/28/2021	0 <sup>1</sup> 2'	< 0.025	< 0.049	< 0.049	<0.098	<0.10	<4.9	<10	<50 <46	<10	<50 <46	<60
TH-2/2'	9/28/2021	_	< 0.024	<0.048	< 0.048	< 0.096	<0.10	<4.8	<9.3		<9.3		<61
TH-2/4'	9/28/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.7	<49	<9.7	<49	<60
TH-3/0'	9/28/2021	0'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	<60
TH-3/2'	9/28/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.7	<48	<9.7	<48	<60
TH-3/4'	9/28/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.9	<49	<9.9	<49	<60
											1	1	
TH-4/0'	9/28/2021	0'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.7	<49	<9.7	<49	<60
TH-4/2'	9/28/2021	2'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.8	<49	<9.8	<49	<61
TH-4/4'	9/28/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.9	<50	<9.9	<50	<60
	9/28/2021	0'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.3	<47	<9.3	<47	<59
TH-5/2'	9/28/2021	2'	< 0.025	< 0.050	< 0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	<60
TH-5/4'	9/28/2021	4'	<0.024	< 0.049	< 0.049	<0.097	<0.10	<4.9	<10	<50	<10	<50	<60
19.15.29.12 NMAC Table 1 Impacted by a Re			10				50				1,000	2,500	20,000
19.15.29.13 NMAC R (0'-4' Soi		teria	10 <sup>3</sup>				50 <sup>3</sup>					100 <sup>3</sup>	600

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.

2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.

3. 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.

Γ

COPELAN FEDERAL #1													
				All val	ues presente	d in parts per	million (mg/	/Kg)				ТРН	1
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)	(GRO+DRO+ MRO)	СНІ
ey Area Assessmen								1					
TH-6/5 TH-6/8	2/9/2022 2/9/2022	5'	<0.024 <0.024	<0.048 <0.048	<0.048 <0.048	<0.096 <0.096	<0.10	<4.8 <4.8	<9.7 14	<49 <48	<9.7 14	<49 14	4
TH-6/11	3/1/2022	11'	<0.024	< 0.040	< 0.049	<0.098	<0.10	<4.9	<9.2	<46	<9.2	<46	8
TH-6/14	3/1/2022	14'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.0	<45	<9.0	<45	4
TU 7/0	0/0/0000		-0.004	-0.040	-0.040	-0.000	-0.40	-10	-0.0	-50	-0.0	-50	
TH-7/2 TH-7/4	2/9/2022 2/9/2022	2' 4'	<0.024 <0.025	<0.048 <0.049	<0.048 <0.049	<0.096 <0.099	<0.10 <0.10	<4.8 <4.9	<9.9 <9.1	<50 <46	<9.9 <9.1	<50 <46	1
TH-7/7	3/2/2022	7'	< 0.025	<0.049	<0.049	<0.033	<0.10	<5.0	<9.1	<40	<9.1	<45	2
TH-7/10	3/2/2022	10'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.0	<45	<9.0	<45	-
								Т			1		
TH-8/2	2/16/2022	2' 4'	<0.025	<0.050 <0.049	<0.050 <0.049	<0.099	<0.10 <0.10	<5.0 <4.9	<9.7	<49 <48	<9.7 <9.6	<49 <48	3
TH-8/4	2/16/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.6	<48	<9.6	<48	ł
TH-9/2	2/16/2022	2'	<0.025	< 0.050	< 0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	1
TH-9/4	2/16/2022	4'	<0.025	<0.049	< 0.049	<0.099	<0.10	<4.9	<9.9	<49	<9.9	<49	1
													_
TH-10/5	2/9/2022	5'	< 0.024	<0.048	<0.048	<0.096	<0.10	<4.8	< 9.7	<48	< 9.7	<48	5
TH-10/14	2/9/2022	14'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<8.6	<43	<8.6	<43	9
TH-11/0	2/9/2022	0'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.8	<49	<9.8	<49	4
TH-11/2	2/9/2022	2'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<10	<50	<10	<50	3
TH-12/4	2/9/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.8	<49	< 9.8	<49	9
TH-12/6	2/9/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	9
TH-13/1	2/9/2022	1'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.4	<47	<14.2	<47	:
TH-13/4	2/9/2022	4'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	150	340	<13.7	490	~ *
TH-14/1 TH-14/4	2/16/2022 2/16/2022	1' 4'	<0.025 <0.025	<0.049 <0.049	<0.049 <0.049	<0.099 <0.099	<0.10 <0.10	<4.9 <4.9	<9.4 <9.9	<47 <49	<9.4 <9.9	<47 <49	•
10-14/4	2/10/2022	4	NU.025	<0.049	<0.049	<0.099	<b>NO. 10</b>	\$4.9	<b>~9.9</b>	<b>149</b>	\$9.9	<b>149</b>	
TH-15/1	2/16/2022	1'	< 0.025	< 0.050	< 0.050	<0.10	<0.10	<5.0	65	190	65	255	1
TH-15/4	2/16/2022	4'	< 0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<10	<50	<10	<50	
										1		1	
TH-16/1 TH-16/4	2/16/2022 2/16/2022	1' 4'	<0.025 <0.024	<0.050 <0.048	<0.050 <0.048	<0.10 <0.097	<0.10 <0.10	<5.0 <4.8	<9.7 25	<49 91	<9.7 25	<49 116	•
10/4	2/10/2022	4	NU.024	<0.040	<0.040	<0.097	NO. 10	\$4.0	20	91	25	110	
TH-17/4	3/1/2022	4'	< 0.025	< 0.050	< 0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	(
TH-17/6	3/1/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	4
TU 40/0	0/4/0000	01	-0.005	-0.040	-0.040	-0.000	-0.40	-10	-0.4	-40	-0.4	-40	
TH-18/0 TH-18/4	3/1/2022 3/1/2022	0'	<0.025 <0.025	<0.049 <0.049	<0.049 <0.049	<0.098 <0.098	<0.10	<4.9 <4.9	<9.1 <9.5	<46 <48	<9.1 <9.5	<46 <48	•
111 10/1	di li LOLL	· · ·	0.020	-0.010	-0.010	-0.000	-0.10	1.0	-0.0	10	-0.0		
TH-19/0	3/1/2022	0'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	
TH-19/2	3/1/2022	2'	< 0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.5	<48	<9.5	<48	6
TU 00/0	0/0/0000	01	-0.005	-0.050	-0.050	-0.40	-0.40	-5.0	40	-40	40	10	
TH-20/0 TH-20/4	3/2/2022 3/2/2022	0' 4'	<0.025 <0.025	<0.050 <0.049	<0.050 <0.049	<0.10 <0.099	<0.10 <0.10	<5.0 <4.9	10 <9.5	<46 <48	10 <9.5	10 <48	•
	JILILULL		0.020	0.043	0.043	-0.035	-0.10	-7.3	-0.0		-0.0	U	
TH-21/1	3/2/2022	1'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	•
						··							
TH-22/0	3/2/2022	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<9.9	<49	•
TH-23/2	3/2/2022	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.4	<47	<9.4	<47	
TH-23/4	3/2/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.4	<49	<9.4	<49	
TH-24/0	3/1/2022	0'	<0.025	< 0.050	< 0.050	<0.10	<0.10	<5.0	36	130	36	166	1,
TH-24/4	3/1/2022	4'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.5	<47	<9.5	<47	1
TH-25/0	3/1/2022	0'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.5	<48	<9.5	<48	1
TH-25/4	3/1/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.2	<46	<9.2	<46	
TH-26/0	3/1/2022	0'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<8.8	<44	<8.8	<44	•
TH-26/2	3/1/2022	2'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.6	<48	<9.6	<48	<
TH-27/0	3/1/2022	0'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<8.8	<44	<8.8	<44	<
TH-27/2	3/1/2022	2'	<0.023	<0.049	<0.049	<0.093	<0.09	<4.5	<9.8	<49	<9.8	<49	
			*										
TH-28	3/2/2022	0'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	9.7	58	9.7	67.7	4
	3/2/2022	0'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	120	280	120	400	
TH-29													
	Closure Criteria												
TH-29 29.12 NMAC Table 1 Impacted by a Rei 19.15.29.13 NMAC R	lease (GW > 100	)')	10				50				1,000	2,500	20

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.

2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.

3. 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.

# ATTACHMENT 1 – DEPTH-TO-GROUNDWATER DATA

•

GHD		ROCK)		ITATION LOG				Page 1 of
	NAME: Nicholas BJ (Battery)	HOLE D						
PROJECT	NUMBER: 12579884			TED: 6 May 2022				
	EOG Resources			HOD: Air Rotary/Split	Spoons	and Cu	ıttings	
	N: Eddy County, New Mexico			NEL: L. Mullins				
	CONTRACTOR: HCI Drilling	DRILLEF	R: K.C	ooper	_	%		1
DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	Μ	IONITORING WELL	RUN NUMBER	CORE RECOVERY 9	RQD %	
			Ī		۳.S	RECO	RC	
	SP-SAND, fine to medium grained sand, with partially consolidated caliche, interbedded throughout							
5	-							
10								
15								
00								
20								
25								
30								
	- light brown to reddish at 32.00ft BGS							
35								
40								
45								
	- with partially consolidated sandstone at 47.00ft							
	BGS							
50								
55								
60								
65								

•

	GHD	STRATIGRAPHIC AND I (BED	NSTRI ROCK)					Page 2 of 2
	PROJEC	CT NAME: Nicholas BJ (Battery)	HOLE I	DESIGNATION: SB-1				
1	PROJEC	CT NUMBER: 12579884	DATE (	COMPLETED: 6 May 2022				
0	CLIENT	EOG Resources	DRILLI	NG METHOD: Air Rotary/Split Sp	oons	and Cu	ittings	
1	OCATI	ON: Eddy County, New Mexico	FIELD	PERSONNEL: L. Mullins				
	ORILLIN	IG CONTRACTOR: HCI Drilling	DRILLE	R: K. Cooper				
	DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITORING WELL	N BER	RE ERY %	%	
					RUN NUMBER	CORE RECOVERY	RQD	
		CL-SANDY CLAY, grey, dry	70.00					
	75	- slightly moist at 75.00ft BGS						
BEDROCK LOG Date: 9/6/22	80							
	85							
LIDEALY FILE: GHD ENVIRO VO6.GLB Report:	90							
	95							
HING: GHL	100							
	105							
	110	END OF BOREHOLE @ 109.00ft BGS	109.00	L WELL DETAILS Screened interval: 99.00 to 109.00ft BGS				
	115			Length: 10ft Diameter: 2in NOTE:				
	120			This well was plugged and abandoned.				
	125							
	130							
	135							
-ile: //פחט		NOTES: Temp Well Gauged on May 11, 2022 and no groundwa	ater was de	etected. Temp well was plugged ar	nd aba	andone	d.	



# New Mexico Office of the State Engineer **Point of Diversion Summary**

			(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)								
Well Tag	POD	Number	••	Q64 Q16 Q4 Sec			0,		X Y		
8	RA	05331		1 4	05	19S	0	546308	3616955*	9	
x Driller Lic	ense:	353	Driller (	Compa	ny:	OS	BOURN	I DRILLING	G & PUMP (	CO.	
Driller Nai	me:										
Drill Start	Date:	04/05/1967	<b>Drill Finish Date:</b> 04/1			4/13/196	67 <b>Pl</b>				
Log File D	ate:	04/17/1967	PCW Ro	PCW Rcv Date:					urce:	Shallow	
Pump Type	e:	Pipe Dis	Pipe Discharge Size:				Es	<b>Estimated Yield:</b>			
Casing Size:		5.50	Depth W	Depth Well:		460 feet		De	pth Water:	305 feet	
Х	Wate	er Bearing Stratif	fications:	Тс	p E	ottom	Descr	ription			
x Casing Perfor				328 364 Limestone/Dolomite/Chalk							
				398			Other				
			forations:	ations: Top B							
				40	00	440					

#### \*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/29/21 7:49 AM

POINT OF DIVERSION SUMMARY

# ATTACHMENT 2 – PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH NO. 1 – A general view of the Site assessment activities in September 2021. The view is towards the south.



PHOTOGRAPH NO. 2 - A view of the 2022, site assessment activities in the vicinity of test excavation "TH-6". The view is towards the southwest.

(Approximate GPS: 32.684628, -104.509089)

# ATTACHMENT 3 – LABORATORY ANALYTICAL REPORT



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

RE: Copelan Fed #1

OrderNo.: 2109H12

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 15 sample(s) on 9/29/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysi	Inc.	Date Reported:								
CLIENT: EOG		Cli	ent Sample II	D: TH	H-1/0'					
Project: Copelan Fed #1		Collection Date: 9/28/2021 7:33:00 AM								
Lab ID: 2109H12-001	Matrix: SOIL	29/2021 7:40:00 AM								
Analyses	Result	<b>RL</b> Qual Units		DF Date Analyzed		Batch				
EPA METHOD 300.0: ANIONS					Analyst	CAS				
Chloride	ND	60	mg/Kg	20	10/6/2021 4:06:10 AM	63042				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	SB				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/5/2021 3:16:03 PM	63003				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/5/2021 3:16:03 PM	63003				
Surr: DNOP	72.3	70-130	%Rec	1	10/5/2021 3:16:03 PM	63003				
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	mb				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/4/2021 10:56:00 PM	62981				
Surr: BFB	103	70-130	%Rec	1	10/4/2021 10:56:00 PM	62981				
EPA METHOD 8021B: VOLATILES					Analyst	mb				
Benzene	ND	0.025	mg/Kg	1	10/4/2021 10:56:00 PM	62981				
Toluene	ND	0.050	mg/Kg	1	10/4/2021 10:56:00 PM	62981				
Ethylbenzene	ND	0.050	mg/Kg	1	10/4/2021 10:56:00 PM	62981				
Xylenes, Total	ND	0.10	mg/Kg	1	10/4/2021 10:56:00 PM	62981				
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	10/4/2021 10:56:00 PM	62981				

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

**Qualifiers:** 

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

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

Page 1 of 19

Hall Environmental Analys	lnc.	Date Reported:							
CLIENT: EOG	Client Sample ID: TH-1/2'								
Project: Copelan Fed #1		Collection Date: 9/28/2021 7:35:00 AM							
Lab ID: 2109H12-002	Matrix: SOIL         Received Date: 9/29/2021 7:40:0								
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	CAS		
Chloride	ND	60		mg/Kg	20	10/6/2021 4:18:34 AM	63042		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	SB		
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/5/2021 3:28:30 PM	63003		
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2021 3:28:30 PM	63003		
Surr: DNOP	59.6	70-130	S	%Rec	1	10/5/2021 3:28:30 PM	63003		
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	mb		
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/4/2021 11:55:00 PM	62981		
Surr: BFB	101	70-130		%Rec	1	10/4/2021 11:55:00 PM	62981		
EPA METHOD 8021B: VOLATILES						Analyst	mb		
Benzene	ND	0.023		mg/Kg	1	10/4/2021 11:55:00 PM	62981		
Toluene	ND	0.046		mg/Kg	1	10/4/2021 11:55:00 PM	62981		
Ethylbenzene	ND	0.046		mg/Kg	1	10/4/2021 11:55:00 PM	62981		
Xylenes, Total	ND	0.093		mg/Kg	1	10/4/2021 11:55:00 PM	62981		
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	10/4/2021 11:55:00 PM	62981		

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

**Qualifiers:** 

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

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

Page 2 of 19

Hall Environmental Analysi	Inc.	Date Reported:							
CLIENT: EOG	Client Sample ID: TH-1/4'								
<b>Project:</b> Copelan Fed #1		<b>Collection Date:</b> 9/28/2021 7:40:00 AM							
Lab ID: 2109H12-003	Matrix: SOIL	29/2021 7:40:00 AM							
Analyses	Result	<b>RL</b> Qual Units		DF Date Analyzed		Batch			
EPA METHOD 300.0: ANIONS					Analyst	CAS			
Chloride	ND	60	mg/Kg	20	10/6/2021 4:30:58 AM	63042			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	SB			
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/5/2021 3:41:14 PM	63003			
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/5/2021 3:41:14 PM	63003			
Surr: DNOP	73.2	70-130	%Rec	1	10/5/2021 3:41:14 PM	63003			
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	mb			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/5/2021 12:15:00 AM	62981			
Surr: BFB	103	70-130	%Rec	1	10/5/2021 12:15:00 AM	62981			
EPA METHOD 8021B: VOLATILES					Analyst	mb			
Benzene	ND	0.025	mg/Kg	1	10/5/2021 12:15:00 AM	62981			
Toluene	ND	0.050	mg/Kg	1	10/5/2021 12:15:00 AM	62981			
Ethylbenzene	ND	0.050	mg/Kg	1	10/5/2021 12:15:00 AM	62981			
Xylenes, Total	ND	0.099	mg/Kg	1	10/5/2021 12:15:00 AM	62981			
Surr: 4-Bromofluorobenzene	91.2	70-130	%Rec	1	10/5/2021 12:15:00 AM	62981			

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

**Qualifiers:** 

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

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

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Hall Environmental Analysis	s Laboratory,	Inc.				Date Reported:			
CLIENT: EOG		Cl	ient Sa	ample II	D: TH	I-2/0'			
<b>Project:</b> Copelan Fed #1		<b>Collection Date:</b> 9/28/2021 8:00:00 AM							
Lab ID: 2109H12-004	Matrix: SOIL	0/2021 7:40:00 AM							
Analyses	Result	<b>RL</b> Qual Units		Units	DF Date Analyzed		Batch		
EPA METHOD 300.0: ANIONS						Analyst	CAS		
Chloride	ND	60		mg/Kg	20	10/6/2021 5:33:01 AM	63042		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	SB		
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/5/2021 3:53:42 PM	63003		
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/5/2021 3:53:42 PM	63003		
Surr: DNOP	61.3	70-130	S	%Rec	1	10/5/2021 3:53:42 PM	63003		
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	mb		
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/5/2021 12:34:00 AM	62981		
Surr: BFB	99.1	70-130		%Rec	1	10/5/2021 12:34:00 AM	62981		
EPA METHOD 8021B: VOLATILES						Analyst	mb		
Benzene	ND	0.025		mg/Kg	1	10/5/2021 12:34:00 AM	62981		
Toluene	ND	0.049		mg/Kg	1	10/5/2021 12:34:00 AM	62981		
Ethylbenzene	ND	0.049		mg/Kg	1	10/5/2021 12:34:00 AM	62981		
Xylenes, Total	ND	0.098		mg/Kg	1	10/5/2021 12:34:00 AM	62981		
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	10/5/2021 12:34:00 AM	62981		

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

**Qualifiers:** 

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

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

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Hall Environmental Analys	lnc.	Date Reported:							
CLIENT: EOG	Client Sample ID: TH-2/2'								
Project: Copelan Fed #1		Collection Date: 9/28/2021 8:05:00 AM							
Lab ID: 2109H12-005	Matrix: SOIL         Received Date: 9/29/2021 7:40:0								
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	: VP		
Chloride	ND	61		mg/Kg	20	10/6/2021 8:13:09 PM	63075		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	SB		
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/5/2021 4:06:26 PM	63003		
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/5/2021 4:06:26 PM	63003		
Surr: DNOP	65.7	70-130	S	%Rec	1	10/5/2021 4:06:26 PM	63003		
EPA METHOD 8015D: GASOLINE RAN	NGE					Analyst	: mb		
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2021 12:54:00 AM	62981		
Surr: BFB	102	70-130		%Rec	1	10/5/2021 12:54:00 AM	62981		
EPA METHOD 8021B: VOLATILES						Analyst	: mb		
Benzene	ND	0.024		mg/Kg	1	10/5/2021 12:54:00 AM	62981		
Toluene	ND	0.048		mg/Kg	1	10/5/2021 12:54:00 AM	62981		
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2021 12:54:00 AM	62981		
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2021 12:54:00 AM	62981		
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	10/5/2021 12:54:00 AM	62981		

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

**Qualifiers:** 

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

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

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Surr: 4-Bromofluorobenzene

Analytical Report Lab Order 2109H12

10/5/2021 1:13:00 AM 62981

Hall Environmental Analysis Laboratory, Inc.				Date Reported:					
CLIENT: EO	)G		Cl	ient Sa	ample I	D: TH	I-2/4'		
Project: Co	pelan Fed #1		(	Collect	tion Dat	e: 9/2	28/2021 8:13:00 AM		
Lab ID: 210	09H12-006	Matrix: SOIL         Received Date: 9/29/2021 7:40:00							
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHO	D 300.0: ANIONS						Analyst	: VP	
Chloride		ND	60		mg/Kg	20	10/6/2021 8:50:24 PM	63075	
EPA METHO	D 8015M/D: DIESEL RA	NGE ORGANICS					Analyst	SB	
Diesel Range	Organics (DRO)	ND	9.7		mg/Kg	1	10/5/2021 4:18:53 PM	63003	
Motor Oil Rar	nge Organics (MRO)	ND	49		mg/Kg	1	10/5/2021 4:18:53 PM	63003	
Surr: DNO	Р	63.0	70-130	S	%Rec	1	10/5/2021 4:18:53 PM	63003	
EPA METHO	D 8015D: GASOLINE R	ANGE					Analyst	: mb	
Gasoline Ran	nge Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2021 1:13:00 AM	62981	
Surr: BFB		105	70-130		%Rec	1	10/5/2021 1:13:00 AM	62981	
EPA METHO	D 8021B: VOLATILES						Analyst	: mb	
Benzene		ND	0.024		mg/Kg	1	10/5/2021 1:13:00 AM	62981	
Toluene		ND	0.048		mg/Kg	1	10/5/2021 1:13:00 AM	62981	
Ethylbenzene	9	ND	0.048		mg/Kg	1	10/5/2021 1:13:00 AM	62981	
Xylenes, Tota	al	ND	0.096		mg/Kg	1	10/5/2021 1:13:00 AM	62981	

89.7

70-130

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range

%Rec 1

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

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Hall Environmental Analys	lnc.	Date Reported:							
CLIENT: EOG		Client Sample ID: TH-3/0'							
<b>Project:</b> Copelan Fed #1	Fed #1 Collection Date: 9/28/2021 8:24:00 A								
Lab ID: 2109H12-007	Matrix: SOIL	29/2021 7:40:00 AM							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst:	VP		
Chloride	ND	60		mg/Kg	20	10/7/2021 12:15:41 PM	63116		
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst:	SB		
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/5/2021 4:31:38 PM	63003		
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/5/2021 4:31:38 PM	63003		
Surr: DNOP	58.5	70-130	S	%Rec	1	10/5/2021 4:31:38 PM	63003		
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst:	mb		
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/5/2021 1:33:00 AM	62981		
Surr: BFB	103	70-130		%Rec	1	10/5/2021 1:33:00 AM	62981		
EPA METHOD 8021B: VOLATILES						Analyst:	mb		
Benzene	ND	0.025		mg/Kg	1	10/5/2021 1:33:00 AM	62981		
Toluene	ND	0.049		mg/Kg	1	10/5/2021 1:33:00 AM	62981		
Ethylbenzene	ND	0.049		mg/Kg	1	10/5/2021 1:33:00 AM	62981		
Xylenes, Total	ND	0.098		mg/Kg	1	10/5/2021 1:33:00 AM	62981		
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	10/5/2021 1:33:00 AM	62981		

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

**Qualifiers:** 

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit
- Page 7 of 19

Hall Environmental Analys	is Laboratory, 1	Inc.				Date Reported:		
CLIENT: EOG	Client Sample ID: TH-3/2'							
<b>Project:</b> Copelan Fed #1	ct: Copelan Fed #1 Collectio							
Lab ID: 2109H12-008	Matrix: SOIL	/2021 7:40:00 AM						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst:	VP	
Chloride	ND	60		mg/Kg	20	10/7/2021 12:28:06 PM	63116	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	SB	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/5/2021 4:44:09 PM	63003	
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2021 4:44:09 PM	63003	
Surr: DNOP	68.7	70-130	S	%Rec	1	10/5/2021 4:44:09 PM	63003	
EPA METHOD 8015D: GASOLINE RAM	NGE					Analyst	mb	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2021 1:53:00 AM	62981	
Surr: BFB	99.6	70-130		%Rec	1	10/5/2021 1:53:00 AM	62981	
EPA METHOD 8021B: VOLATILES						Analyst	mb	
Benzene	ND	0.024		mg/Kg	1	10/5/2021 1:53:00 AM	62981	
Toluene	ND	0.048		mg/Kg	1	10/5/2021 1:53:00 AM	62981	
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2021 1:53:00 AM	62981	
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2021 1:53:00 AM	62981	
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	10/5/2021 1:53:00 AM	62981	

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

**Qualifiers:** 

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

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

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Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

**Analytical Report** Lab Order 2109H12

Hall Environmental	Analysis	Laboratory, Inc.
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Hall Environmental Analys	is Laboratory, I	Inc.			Date Reported:			
CLIENT: EOG		Client Sample ID: TH-3/4'						
<b>Project:</b> Copelan Fed #1	Collection Date: 9/28/2021 8:32:00 AM							
Lab ID: 2109H12-009	Matrix: SOIL         Received Date: 9/29/2021 7:40:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: VP		
Chloride	ND	60	mg/Kg	20	10/7/2021 12:40:31 PM	63116		
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	SB		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/5/2021 4:56:36 PM	63003		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/5/2021 4:56:36 PM	63003		
Surr: DNOP	72.4	70-130	%Rec	1	10/5/2021 4:56:36 PM	63003		
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: mb		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/5/2021 2:12:00 AM	62981		
Surr: BFB	103	70-130	%Rec	1	10/5/2021 2:12:00 AM	62981		
EPA METHOD 8021B: VOLATILES					Analyst	: mb		
Benzene	ND	0.024	mg/Kg	1	10/5/2021 2:12:00 AM	62981		
Toluene	ND	0.048	mg/Kg	1	10/5/2021 2:12:00 AM	62981		

ND

ND

92.8

0.048

0.096

70-130

mg/Kg

mg/Kg

%Rec

1

1

1

10/5/2021 2:12:00 AM

10/5/2021 2:12:00 AM

10/5/2021 2:12:00 AM

62981

62981

62981

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

**Qualifiers:** 

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

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

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Hall Environmental Analysi	s Laboratory, 1	Inc.				Date Reported:		
CLIENT: EOG	Client Sample ID: TH-4/0'							
<b>Project:</b> Copelan Fed #1	•							
Lab ID: 2109H12-010								
Analyses	Result	<b>RL</b> Qual Units		DF Date Analyzed		Batch		
EPA METHOD 300.0: ANIONS						Analyst	VP	
Chloride	ND	60		mg/Kg	20	10/7/2021 12:52:56 PM	63116	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	SB	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/5/2021 5:08:54 PM	63003	
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/5/2021 5:08:54 PM	63003	
Surr: DNOP	65.0	70-130	S	%Rec	1	10/5/2021 5:08:54 PM	63003	
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	mb	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2021 3:31:00 AM	62981	
Surr: BFB	103	70-130		%Rec	1	10/5/2021 3:31:00 AM	62981	
EPA METHOD 8021B: VOLATILES						Analyst	mb	
Benzene	ND	0.024		mg/Kg	1	10/5/2021 3:31:00 AM	62981	
Toluene	ND	0.048		mg/Kg	1	10/5/2021 3:31:00 AM	62981	
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2021 3:31:00 AM	62981	
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2021 3:31:00 AM	62981	
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	10/5/2021 3:31:00 AM	62981	

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
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- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

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Hall Environmental Analys	is Laboratory, 1	lnc.				Date Reported:		
CLIENT: EOG	Client Sample ID: TH-4/2'							
<b>Project:</b> Copelan Fed #1	<b>Collection Date:</b> 9/28/2021 8:51:00 A							
Lab ID: 2109H12-011	Matrix: SOIL	29/2021 7:40:00 AM						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	: VP	
Chloride	ND	61		mg/Kg	20	10/7/2021 1:05:21 PM	63116	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst	SB	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/5/2021 5:21:24 PM	63003	
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/5/2021 5:21:24 PM	63003	
Surr: DNOP	66.3	70-130	S	%Rec	1	10/5/2021 5:21:24 PM	63003	
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	mb	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/5/2021 3:50:00 AM	62981	
Surr: BFB	102	70-130		%Rec	1	10/5/2021 3:50:00 AM	62981	
EPA METHOD 8021B: VOLATILES						Analyst	mb	
Benzene	ND	0.025		mg/Kg	1	10/5/2021 3:50:00 AM	62981	
Toluene	ND	0.049		mg/Kg	1	10/5/2021 3:50:00 AM	62981	
Ethylbenzene	ND	0.049		mg/Kg	1	10/5/2021 3:50:00 AM	62981	
Xylenes, Total	ND	0.099		mg/Kg	1	10/5/2021 3:50:00 AM	62981	
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	10/5/2021 3:50:00 AM	62981	

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
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- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

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Hall Environmental Analysis	s Laboratory, 1	lnc.				Date Reported:		
CLIENT: EOG	Client Sample ID: TH-4/4'							
<b>Project:</b> Copelan Fed #1	<b>Collection Date:</b> 9/28/2021 9:02:00							
Lab ID: 2109H12-012	Matrix: SOIL	29/2021 7:40:00 AM						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	: VP	
Chloride	ND	60		mg/Kg	20	10/7/2021 1:17:46 PM	63116	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	SB	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/5/2021 5:33:37 PM	63003	
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/5/2021 5:33:37 PM	63003	
Surr: DNOP	68.2	70-130	S	%Rec	1	10/5/2021 5:33:37 PM	63003	
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	mb	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2021 4:10:00 AM	62981	
Surr: BFB	102	70-130		%Rec	1	10/5/2021 4:10:00 AM	62981	
EPA METHOD 8021B: VOLATILES						Analyst	mb	
Benzene	ND	0.024		mg/Kg	1	10/5/2021 4:10:00 AM	62981	
Toluene	ND	0.048		mg/Kg	1	10/5/2021 4:10:00 AM	62981	
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2021 4:10:00 AM	62981	
Xylenes, Total	ND	0.097		mg/Kg	1	10/5/2021 4:10:00 AM	62981	
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	10/5/2021 4:10:00 AM	62981	

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

**Qualifiers:** 

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

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

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Hall Environmental Analysis Laboratory, Inc. Date Reported:									
CLIENT: EOG	Cl	Client Sample ID: TH-5/0'							
<b>Project:</b> Copelan Fed #1	Collection Date: 9/28/2021 9:18:00 AM								
Lab ID: 2109H12-013	Matrix: SOIL	atrix: SOIL         Received Date: 9/29/2021 7:40:00 AM							
Analyses	Result	Qual	al Units DF		Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	VP		
Chloride	ND	59		mg/Kg	20	10/7/2021 1:30:11 PM	63116		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	SB		
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/5/2021 5:46:03 PM	63003		
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/5/2021 5:46:03 PM	63003		
Surr: DNOP	61.4	70-130	S	%Rec	1	10/5/2021 5:46:03 PM	63003		
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	mb		
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/5/2021 4:30:00 AM	62981		
Surr: BFB	105	70-130		%Rec	1	10/5/2021 4:30:00 AM	62981		
EPA METHOD 8021B: VOLATILES						Analyst	mb		
Benzene	ND	0.025		mg/Kg	1	10/5/2021 4:30:00 AM	62981		
Toluene	ND	0.049		mg/Kg	1	10/5/2021 4:30:00 AM	62981		
Ethylbenzene	ND	0.049		mg/Kg	1	10/5/2021 4:30:00 AM	62981		
Xylenes, Total	ND	0.098		mg/Kg	1	10/5/2021 4:30:00 AM	62981		
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	10/5/2021 4:30:00 AM	62981		

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**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
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- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL
  - Reporting Limit

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Hall Environmental Analys		Date Reported:									
CLIENT: EOG		Client Sample ID: TH-5/2'									
Project: Copelan Fed #1	Collection Date: 9/28/2021 9:26:00 AM										
Lab ID: 2109H12-014	Matrix: SOIL	Matrix: SOIL         Received Date: 9/29/2021 7:40:00 AM									
Analyses	Result	Result RL				Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS						Analyst	: VP				
Chloride	ND	60		mg/Kg	20	10/7/2021 1:42:36 PM	63116				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	SB				
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/5/2021 5:58:42 PM	63003				
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/5/2021 5:58:42 PM	63003				
Surr: DNOP	69.1	70-130	S	%Rec	1	10/5/2021 5:58:42 PM	63003				
EPA METHOD 8015D: GASOLINE RAM	NGE					Analyst	: mb				
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/5/2021 4:49:00 AM	62981				
Surr: BFB	105	70-130		%Rec	1	10/5/2021 4:49:00 AM	62981				
EPA METHOD 8021B: VOLATILES						Analyst	: mb				
Benzene	ND	0.025		mg/Kg	1	10/5/2021 4:49:00 AM	62981				
Toluene	ND	0.050		mg/Kg	1	10/5/2021 4:49:00 AM	62981				
Ethylbenzene	ND	0.050		mg/Kg	1	10/5/2021 4:49:00 AM	62981				
Xylenes, Total	ND	0.10		mg/Kg	1	10/5/2021 4:49:00 AM	62981				
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	10/5/2021 4:49:00 AM	62981				

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Hall Environmental Analysis Laboratory, Inc.   Date Reported:									
CLIENT: EOG	CLIENT: EOG								
<b>Project:</b> Copelan Fed #1	C	Collection Dat	<b>e:</b> 9/2	28/2021 9:33:00 AM					
Lab ID: 2109H12-015	Matrix: SOIL	SOIL <b>Received Date:</b> 9/29/2021 7:40:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: VP			
Chloride	ND	60	mg/Kg	20	10/7/2021 1:55:01 PM	63116			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/5/2021 6:11:14 PM	63003			
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/5/2021 6:11:14 PM	63003			
Surr: DNOP	72.3	70-130	%Rec	1	10/5/2021 6:11:14 PM	63003			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: mb			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/5/2021 5:09:00 AM	62981			
Surr: BFB	106	70-130	%Rec	1	10/5/2021 5:09:00 AM	62981			
EPA METHOD 8021B: VOLATILES					Analyst	: mb			
Benzene	ND	0.024	mg/Kg	1	10/5/2021 5:09:00 AM	62981			
Toluene	ND	0.049	mg/Kg	1	10/5/2021 5:09:00 AM	62981			
Ethylbenzene	ND	0.049	mg/Kg	1	10/5/2021 5:09:00 AM	62981			
Xylenes, Total	ND	0.097	mg/Kg	1	10/5/2021 5:09:00 AM	62981			
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	10/5/2021 5:09:00 AM	62981			

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**Client:** 

## **QC SUMMARY REPORT** Hall Envi

	WO#:	2109H12
rironmental Analysis Laboratory, Inc.		13-Oct-21
EOG		

Project: Copela	an Fed #1							
Sample ID: MB-63042	SampType: mblk	TestCode: EPA Method	300.0: Anions					
Client ID: PBS	Batch ID: 63042	RunNo: 81813						
Prep Date: 10/5/2021	Analysis Date: 10/5/2021	SeqNo: 2894205	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: LCS-63042	SampType: Ics	TestCode: EPA Method	300.0: Anions					
Client ID: LCSS	Batch ID: 63042	RunNo: 81813						
Prep Date: 10/5/2021	Analysis Date: 10/5/2021	SeqNo: 2894206	Units: <b>mg/Kg</b>					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Chloride	14 1.5 15.00	0 94.7 90	110					
Sample ID: MB-63075	SampType: MBLK	TestCode: EPA Method	300.0: Anions					
Client ID: PBS	Batch ID: 63075	RunNo: 81844						
Prep Date: 10/6/2021	Analysis Date: 10/6/2021	SeqNo: 2895415	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Chloride	ND 1.5							
Sample ID: LCS-63075	SampType: LCS	TestCode: EPA Method	300.0: Anions					
Client ID: LCSS	Batch ID: 63075	RunNo: 81844						
Prep Date: 10/6/2021	Analysis Date: 10/6/2021	SeqNo: 2895416	Units: <b>mg/Kg</b>					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Chloride	14 1.5 15.00	0 95.2 90	110					
Sample ID: MB-63116	SampType: MBLK	TestCode: EPA Method	300.0: Anions					
Client ID: PBS	Batch ID: 63116	RunNo: 81856						
Prep Date: 10/7/2021	Analysis Date: 10/7/2021	SeqNo: 2896811	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: LCS-63116	SampType: LCS	TestCode: EPA Method	300.0: Anions					
Client ID: LCSS	Batch ID: 63116	RunNo: 81856						
Prep Date: 10/7/2021	Analysis Date: 10/7/2021	SeqNo: 2896812	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Chloride	14 1.5 15.00	0 95.9 90	110					

#### **Qualifiers:**

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

Client:	EOG Consist Esd #1									
Project:	Copelan Fed #1									
Sample ID: MB-630	03 Sam	рТуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Bat	tch ID: 63	003	F	unNo: 8	1801				
Prep Date: 10/4/2	021 Analysis	Date: 10	0/5/2021	S	eqNo: 2	894853	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (I	ND ND	10								
Motor Oil Range Organics	(MRO) ND	50								
Surr: DNOP	8.5		10.00		84.9	70	130			
Sample ID: LCS-63	003 Sam	oType: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Bat	tch ID: 63	003	F	unNo: 8	1801				
Prep Date: 10/4/2	021 Analysis	Date: 10	0/5/2021	S	eqNo: 2	894854	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (I	0RO) 46	10	50.00	0	92.6	68.9	135			
Surr: DNOP	4.0		5.000		79.4	70	130			

Qualifiers:

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

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2109H12

13-Oct-21

WO#:

EOG

**Client:** 

ratory, Inc.	WO#: 2109H1: 13-Oct-21

Project: Copelar	n Fed #1									
Sample ID: mb-62981	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batcl	h ID: 629	981	F	RunNo: <b>8</b> 1	1772				
Prep Date: 10/1/2021	Analysis D	Date: 10	/4/2021	S	SeqNo: 2	891809	Units: mg/#	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.1	70	130			
Sample ID: Ics-62981	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batcl	h ID: 629	981	F	RunNo: <b>8</b>	1772				
Prep Date: 10/1/2021	Analysis D	Date: 10	/4/2021	S	SeqNo: 2	891811	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	114	78.6	131			
Surr: BFB	1200		1000		121	70	130			

**Qualifiers:** 

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

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

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## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2109H12
alysis Laboratory, Inc.		13-Oct-21

	EOG Copelan Fed #1									
-	-									
Sample ID: mb-629	81 Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Bate	ch ID: 62	981	F	RunNo: <b>8</b>	1772				
Prep Date: 10/1/20	021 Analysis	Date: 10	0/4/2021	S	SeqNo: 2	891855	Units: mg/#	٤g		
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-Bromofluorober	nzene 0.88		1.000		88.3	70	130			
Sample ID: Ics-6298	81 Samp	Type: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Bat	ch ID: 62	981	F	RunNo: <b>8</b>	1772				
Prep Date: 10/1/20	021 Analysis	Date: 10	0/4/2021	S	SeqNo: 2	891857	Units: mg/#	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			

Qualifiers:

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

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

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Page	-59	nt	F 1 4 4	t
1 use	0,	<b>v</b>	177	

HALL ENVIRONMENT ANALYSIS LABORATORY	2:51:54 PM T <b>AL</b>	TEL: 505-3		01 Hawkins nue, NM 871 505-345-41	<sup>NE</sup> 09 <b>San</b> 07	Page
Client Name: EOG		Work Order N	Number: 210	9H12		RcptNo: 1
Received By: Cheyenn	e Cason	9/29/2021 7:40	:00 AM		Chent	
Completed By: Isaiah O	rtiz	9/29/2021 5:12	:14 PM		Chul I-C	24
Reviewed By: JR 1	0/1/21					
Chain of Custody						
1. Is Chain of Custody com	plete?		Yes	$\checkmark$	No 🗌	Not Present
2. How was the sample deli	vered?		Cou	rier		
Log In						
3. Was an attempt made to	cool the samples?		Yes	$\checkmark$	No 🗌	NA 🛄
4. Were all samples receive	d at a temperature c	of >0° C to 6.0°C	Yes		No 🗌	
5. Sample(s) in proper conta	ainer(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 t	o bottles?		Yes		No 🗹	NA 🗌
9. Received at least 1 vial w	ith headspace <1/4"	for AQ VOA?	Yes		No 🗌	NA 🗹
10. Were any sample contain	ers received broken	17	Yes		No 🔽	
11. Does paperwork match be			Yes		No 🗌	# of preserved bottles checked for pH:
(Note discrepancies on ch				5		(<2 or >12 unless noted Adjusted?
12. Are matrices correctly ide 13. Is it clear what analyses v		ustody?	Yes Yes		No 🗌 No 🗍	/ djactou !
14. Were all holding times ab			Yes			Checked by: TIUC 10/11
(If no, notify customer for			103			
Special Handling (if ap	plicable)					
15. Was client notified of all o	discrepancies with th	nis order?	Yes		No 🗌	NA 🔽
Person Notified:		C	Date:			
By Whom:	1	N	/ia: 🗌 eM	ail 🗌 Pho	one 🗌 Fax	In Person
Regarding:	1					
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp °C	and a lot of the second s	al Intact Seal N	No Seal D	ate S	Signed By	
1 5.2	Good Not	Present				

Page 1 of 1

Olient EGG-Artesar Ranger Enu,         REstricted         Restricted         Restricted         Restricted           Project Name:         Project Name	U	Chain	-of-CI	Chain-of-Custody Record	Turn-Around Time:	Time:			4
Froject Name:         Project Name:         4901 начала           E06         -105 5 4th St. Artesia NN. 88210         Cop2 (Jan. F3.4 ± 1.         4901 начала           201179. Austin TX 78720         Project #: 5375	Client:	EOG-Art	tesia / Ra	inger Env.	Standard				AALL ENVIRONMENTAL ANALVERS LARODATODV
Nature Address EOC - 105 3th St. Artenes MM 86210         Cape III (S) 4 ML         Address EOC - 105 3th St. Artenes MM 86210         Address EOC - 105 3th St. Artenes MM 86210         Address EOC - 105 3th St. Artenes MM 8709           Fager FO Box 20119: Austin X 18720         Polect # 375         Polect # 375         Polect # 375         Polect # 375           Prome #: St - 103 - 1176: Austin X 18720         Polect # 375         Polect # 105 - 105 - 105 - 105         Address For a 665-345-410           Prome #: St - 103 - 105         Polect Warrager. W. Kardort         Polect Warrager. W. Kardort         Address For a 665-345-410           Address For XML         Prome #: St - 05 - 05         Polect Warrager. W. Kardort         Polect Warrager. W. Kardort           Address For XML         Dote Polect         E FOD (POP 0)         POP 0)         POP 0)         POP 0)           Address For XML         Prome #: St - 05 - 05 - 05         Markore N + 45 - 05           Address For XML         Prome #: For N + 12 - 1         K-445 - 05         For N + 12 - 1         Markore N + 45 - 05         PO + 12 - 1         PO + 12 -					Project Name				www hallanvironmental com
Панаете PO Bez. 2011/3. Auslin 1X 78/20         Рорест #. 53/5         Так. 505-345-3075         Так. 505-345-3275         Так. 505-345-3275         Так. 205	Mailing	Address:	EOG - 105	5 S 4th St, Artesia NM, 88210	Copelan	Fed #1		4901 H	awkins NE - Albuquerque NM 87109
Prome #, 521-136.         Analysis Routest           emile (Fast Willightangeferv.com         Project Manager. W. Kendort         Analysis Routest           emile (Fast Willightangeferv.com         Exercision         Project Manager. W. Kendort         Project Manager. W. Kendort           emile (Fast Willightangeferv.com         Exercision         Devel (Full Validation)         Project Manager. W. Kendort         Project Manager. W. Kendort           Accentation:         DA 2 Compliance         Date         The Nat. Kendort         Sampler. Will. Kennuch         Emile Matrix           Accentation:         DA 2 Compliance         Bampler. Will. Kennuch         Emile Matrix         Sampler. Will. Kennuch         Emile Matrix           Accentation:         DA 2 Compliance         Dones         Yes         D         D           Accentation:         DA 2 Compliance         Emile Matrix         Sampler. Will. Kennuch         Emile Matrix           Accentation:         DA 2 Compliance         DA 2 Compliance         Emile Matrix         Sampler Will. Kennuch         Emile Matrix           Accentation:         DA 2 Compliance         DA 2 Compliance         Emile Matrix         Sampler Will         Emile Matrix           Accentation:         Matrix         Sampler Will         Kennuch         Emile Matrix         Conder	Ranger	PO Box	201179, A	vustin TX 78720	Project #: 53	75		Tel. 50	5-345-3975 Fax 505-345-4107
email of Fast WillightangefEnv.com         Project Manager. W. Kerdorf         Project Manager. W. Kerdorf           OKC Fraanger         UKC Fraanger         UKC Fraanger         Image: Stand of Arger Manager. W. Kerdorf           Accorditation:         Accorditation:         Accorditation:         Accorditation:         Accorditation:           Accorditation:         Accorditation:         Accorditation:         Accorditation:         Accorditation:         Accorditation:           Accorditation:         Accorditation:         Accorditation:         Accorditation:         Accorditation:         Accorditation:         Accorditation:           Bale         Time         Matrix         Sample Name         Accorditation:         Ac	Phone	#: 521-3.	35-1785						Ina
Concentration     Conc	email c	r Fax#: \	Nill@Ran	igerEnv.com	Project Mana	ger: W. Kierd	lorf	(1	
Accreditation:         ПА Солоріансе         Sampler:         VIII L/Lourd/1           m NELAC         00ter:         7 45         00ter:         00ter:         00ter           m NELAC         00ter:         00ter:         00ter         00ter         00ter         00ter           m NELAC         00ter:         00ter	QA/QC	Package: <b>1dard</b>		Level 4 (Full Validation)				оям \ (	
EED (Type)         EED (Type)         EED (Type)         # of Coolers' 2: 5: 2: 0: 5: 2:         A for coolers' 2: 5: 2: 0: 5: 2: 0: 2: 5: 2: 0: 5: 2: 0: 2: 5: 2: 0: 2: 0: 2: 0: 2: 2: 0: 2: 0: 2: 0: 2: 0: 2: 0: 2: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:		itation: AC	□ Az Cc	ompliance	Sampler: Will	15	□ No		
Date         Time         Matrix         Sample Name         Container         Preservative         HEAL No.         XX         XX<	EDC	(Type)	Excel		# of Coolers:	2 20	0	้มย	
Date         Time         Matrix         Sample Name         Container         Preservative         HEAL NO.         X         X         N					Cooler Temp	(including CF): 4.	0	)DSI	
$q/g$ $0^{33}$ $S_{i1}$ $TH-1/o^{i}$ $[1,4]_{02,2n}$ $T_{c0}$ $N$	Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	TIO9 HIZ	08:H9T	
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		0432	Still.	10-			000		
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Image: Time:     TH-4/4     Date     Date     Time       Date:     Time:     Relinquished by:     Received by:     Via:     Date     Time       1/28     Date:     Time:     Remarks: Bill to EOG Artesia       1/28     Date:     Time:     Remarks: Bill to EOG Artesia       Date:     Time:     Relinquished by:     Via:     Date		0951	1:45	-			011	1	
Date:     Time:     Relinquished by:       Y/28 /J     W/L     W/L       March     M/L       Date:     Time:       Relinquished by:     Received by:       Date:     Time:       Relinquished by:     Received by:       Mh     1900       Quarter     Care       Care     Cauching	-	2010	1:25	1 4-4	1	-		111	
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7211 1900 america course grala orus	Date:	Time:		ed by:	Received by:	Via:			
	uppell	1900		Muna	Cere	20000			

Released to Imaging: 10/25/2022 11:46:29 AM

Chi	ain-of-C	Chain-of-Custody Record	Turn-Around Time:		5 Dava			3
Client: EO	Client: EOG-Artesia / Ranger Env.	tanger Env.	U Standard		8		HALL ENVIRONMENTAL	
			Project Name:	iai			ANALISIS LABORALORY	-
Mailing Add	ress: EOG - 1	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Copelan	Fed	计工	4001 H	www.hallenvironmental.com	
Ranger: PO	Box 201179,	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	75		Tel 50	Tel 505-345-3075 Eav 505-346 AIN 07 108	
Phone #: 5	Phone #: 521-335-1785						na	
email or Fa	IX#: Will@Ra	email or Fax#: Will@RangerEnv.com	Project Mana	Project Manager: W. Kierdorf	dorf			-
QA/QC Package	(age:					(оя		_
Standard	q	□ Level 4 (Full Validation)				W / (		
Accreditation:		□ Az Compliance □ Other	Sampler: Ui	KA Ves	NN T			
EDD (Type)	1.1		# of Coolers:	2.5 2		OR		_
			Cooler Temp	Cooler Temp(including CF): 4.8	-0-1	2)DS		
Date Tir	Time Matrix	<ul> <li>Sample Name</li> </ul>	Container Type and #	Preservative Type	HEAL NO.	8) XJTE 108:H91 9binoldC		
9128 00	0919 So:1	TH-5/0'	X402Jar	HCE	013	- 5		
50	0926 Spil	TH-6/2'	1	1	014	111		
° T	0933 501	TH-5141	4	1	0 15	171		
	_							
	-							
Date: Time:	e: Relinquished by:		Received by:	Via:	Date Time	Remarks: Bill 1	Remarks: Bill to EOG Artesia	
Aprile 1900	Relinquished by:	inquished by:	Received by: Concerned	via: Covier 9	Date Time 9/29/24 07410			
If neck	essary, samples su	ubmitted to Hall Environmental may be subco	ontracted to other a	ccredited laboratori	es. This serves as notice of th	is possibility. Any sul	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	



February 22, 2022

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

OrderNo.: 2202571

RE: Copelan Federal 1

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/11/2022 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 or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG		Cl	ient Sample II	<b>):</b> TH	H-6/5	
Project: Copelan Federal 1		(	Collection Dat	e: 2/9	9/2022 9:52:00 AM	
Lab ID: 2202571-001	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 2/1	11/2022 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	4600	150	mg/Kg	50	2/18/2022 4:07:06 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/16/2022 6:40:38 AM	65517
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/16/2022 6:40:38 AM	65517
Surr: DNOP	101	51.1-141	%Rec	1	2/16/2022 6:40:38 AM	65517
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/14/2022 5:06:57 PM	65499
Surr: BFB	117	70-130	%Rec	1	2/14/2022 5:06:57 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/14/2022 5:06:57 PM	65499
Toluene	ND	0.048	mg/Kg	1	2/14/2022 5:06:57 PM	65499
Ethylbenzene	ND	0.048	mg/Kg	1	2/14/2022 5:06:57 PM	65499
Xylenes, Total	ND	0.096	mg/Kg	1	2/14/2022 5:06:57 PM	65499
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	2/14/2022 5:06:57 PM	65499

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

**Qualifiers:** 

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

Page 1 of 16

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG		C	ient Sample II	D: TH	H-6/8	
<b>Project:</b> Copelan Federal 1		(	Collection Dat	e: 2/9	9/2022 10:15:00 AM	
Lab ID: 2202571-002	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 2/1	1/2022 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	5000	150	mg/Kg	50	2/18/2022 4:19:26 PM	65610
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: <b>SB</b>
Diesel Range Organics (DRO)	14	9.6	mg/Kg	1	2/16/2022 6:51:26 AM	65517
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/16/2022 6:51:26 AM	65517
Surr: DNOP	93.7	51.1-141	%Rec	1	2/16/2022 6:51:26 AM	65517
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/14/2022 5:30:31 PM	65499
Surr: BFB	116	70-130	%Rec	1	2/14/2022 5:30:31 PM	65499
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	2/14/2022 5:30:31 PM	65499
Toluene	ND	0.048	mg/Kg	1	2/14/2022 5:30:31 PM	65499
Ethylbenzene	ND	0.048	mg/Kg	1	2/14/2022 5:30:31 PM	65499
Xylenes, Total	ND	0.096	mg/Kg	1	2/14/2022 5:30:31 PM	65499
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	2/14/2022 5:30:31 PM	65499

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

**Qualifiers:** 

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

Page 2 of 16

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG		Cl	ient Sample II	D: TH	I-10/5	
<b>Project:</b> Copelan Federal 1		(	Collection Dat	<b>e:</b> 2/9	/2022 10:56:00 AM	
Lab ID: 2202571-003	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 2/1	1/2022 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	5600	300	mg/Kg	100	) 2/18/2022 4:31:47 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/16/2022 7:02:12 AM	65517
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/16/2022 7:02:12 AM	65517
Surr: DNOP	95.6	51.1-141	%Rec	1	2/16/2022 7:02:12 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/14/2022 5:54:03 PM	65499
Surr: BFB	117	70-130	%Rec	1	2/14/2022 5:54:03 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	2/14/2022 5:54:03 PM	65499
Toluene	ND	0.048	mg/Kg	1	2/14/2022 5:54:03 PM	65499
Ethylbenzene	ND	0.048	mg/Kg	1	2/14/2022 5:54:03 PM	65499
Xylenes, Total	ND	0.096	mg/Kg	1	2/14/2022 5:54:03 PM	65499
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	2/14/2022 5:54:03 PM	65499

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG		Cl	ient Sample II	<b>):</b> TH	I-10/14	
Project: Copelan Federal 1		(	Collection Date	e: 2/9	/2022 11:48:00 AM	
Lab ID: 2202571-004	Matrix: SOIL		Received Date	e: 2/1	1/2022 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	9600	600	mg/Kg	200	) 2/18/2022 4:44:08 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	2/16/2022 7:12:56 AM	65517
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	2/16/2022 7:12:56 AM	65517
Surr: DNOP	94.2	51.1-141	%Rec	1	2/16/2022 7:12:56 AM	65517
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/14/2022 6:17:31 PM	65499
Surr: BFB	119	70-130	%Rec	1	2/14/2022 6:17:31 PM	65499
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	2/14/2022 6:17:31 PM	65499
Toluene	ND	0.048	mg/Kg	1	2/14/2022 6:17:31 PM	65499
Ethylbenzene	ND	0.048	mg/Kg	1	2/14/2022 6:17:31 PM	65499
Xylenes, Total	ND	0.097	mg/Kg	1	2/14/2022 6:17:31 PM	65499
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	2/14/2022 6:17:31 PM	65499

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG		Cl	ient San	nple II	): TH	I-11/0	
Project: Copelan Federal 1		(	Collectio	on Date	e: 2/9	0/2022 12:40:00 PM	
Lab ID: 2202571-005	Matrix: SOIL		Receive	ed Date	e: 2/1	1/2022 8:00:00 AM	
Analyses	Result	RL	Qual U	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	MRA
Chloride	430	60	r	mg/Kg	20	2/17/2022 2:59:01 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	SB
Diesel Range Organics (DRO)	ND	9.8	r	mg/Kg	1	2/16/2022 7:23:38 AM	65517
Motor Oil Range Organics (MRO)	ND	49	r	mg/Kg	1	2/16/2022 7:23:38 AM	65517
Surr: DNOP	110	51.1-141	c	%Rec	1	2/16/2022 7:23:38 AM	65517
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.6	r	mg/Kg	1	2/14/2022 6:41:05 PM	65499
Surr: BFB	114	70-130	c	%Rec	1	2/14/2022 6:41:05 PM	65499
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.023	r	mg/Kg	1	2/14/2022 6:41:05 PM	65499
Toluene	ND	0.046	r	mg/Kg	1	2/14/2022 6:41:05 PM	65499
Ethylbenzene	ND	0.046	r	mg/Kg	1	2/14/2022 6:41:05 PM	65499
Xylenes, Total	ND	0.093	r	mg/Kg	1	2/14/2022 6:41:05 PM	65499
Surr: 4-Bromofluorobenzene	108	70-130	c	%Rec	1	2/14/2022 6:41:05 PM	65499

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG Project: Copelan Federal 1 Lab ID: 2202571-006	Matrix: SOIL			<b>e:</b> 2/9	H-11/2 D/2022 1:00:00 PM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	360	60	mg/Kg	20	2/17/2022 3:11:26 PM	65610
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/16/2022 7:34:20 AM	65517
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/16/2022 7:34:20 AM	65517
Surr: DNOP	77.0	51.1-141	%Rec	1	2/16/2022 7:34:20 AM	65517
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/14/2022 7:51:44 PM	65502
Surr: BFB	116	70-130	%Rec	1	2/14/2022 7:51:44 PM	65502
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/14/2022 7:51:44 PM	65502
Toluene	ND	0.048	mg/Kg	1	2/14/2022 7:51:44 PM	65502
Ethylbenzene	ND	0.048	mg/Kg	1	2/14/2022 7:51:44 PM	65502
Xylenes, Total	ND	0.097	mg/Kg	1	2/14/2022 7:51:44 PM	65502
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	2/14/2022 7:51:44 PM	65502

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG		Cl	ient Sample II	<b>):</b> Tł	H-12/4	
Project: Copelan Federal 1		(	Collection Dat	e: 2/9	9/2022 3:02:00 PM	
Lab ID: 2202571-007	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 2/1	11/2022 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	950	60	mg/Kg	20	2/17/2022 3:48:38 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/16/2022 7:45:02 AM	65517
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/16/2022 7:45:02 AM	65517
Surr: DNOP	86.9	51.1-141	%Rec	1	2/16/2022 7:45:02 AM	65517
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/14/2022 9:02:40 PM	65502
Surr: BFB	118	70-130	%Rec	1	2/14/2022 9:02:40 PM	65502
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	2/14/2022 9:02:40 PM	65502
Toluene	ND	0.050	mg/Kg	1	2/14/2022 9:02:40 PM	65502
Ethylbenzene	ND	0.050	mg/Kg	1	2/14/2022 9:02:40 PM	65502
Xylenes, Total	ND	0.099	mg/Kg	1	2/14/2022 9:02:40 PM	65502
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	2/14/2022 9:02:40 PM	65502

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG	Client Sample ID: TH-12/6					
Project: Copelan Federal 1	Collection Date: 2/9/2022 3:07:00 PM					
Lab ID: 2202571-008	Matrix: SOIL         Received Date: 2/11/2022 8:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	950	60	mg/Kg	20	2/17/2022 4:01:03 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/15/2022 11:36:08 PM	65518
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/15/2022 11:36:08 PM	65518
Surr: DNOP	93.7	51.1-141	%Rec	1	2/15/2022 11:36:08 PM	65518
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/14/2022 11:24:14 PM	65502
Surr: BFB	119	70-130	%Rec	1	2/14/2022 11:24:14 PM	65502
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	2/14/2022 11:24:14 PM	65502
Toluene	ND	0.050	mg/Kg	1	2/14/2022 11:24:14 PM	65502
Ethylbenzene	ND	0.050	mg/Kg	1	2/14/2022 11:24:14 PM	65502
Xylenes, Total	ND	0.10	mg/Kg	1	2/14/2022 11:24:14 PM	65502
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	2/14/2022 11:24:14 PM	65502

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG	Client Sample ID: TH-13/1 Collection Date: 2/9/2022 3:22:00 PM						
Project: Copelan Federal 1							
Lab ID: 2202571-009	Matrix: SOIL	<b>Received Date:</b> 2/11/2022 8:00:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	MRA	
Chloride	350	60	mg/Kg	20	2/17/2022 4:13:27 PM	65610	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/16/2022 12:08:18 AM	65518	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/16/2022 12:08:18 AM	65518	
Surr: DNOP	93.3	51.1-141	%Rec	1	2/16/2022 12:08:18 AM	65518	
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/14/2022 11:47:43 PM	65502	
Surr: BFB	112	70-130	%Rec	1	2/14/2022 11:47:43 PM	65502	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.024	mg/Kg	1	2/14/2022 11:47:43 PM	65502	
Toluene	ND	0.048	mg/Kg	1	2/14/2022 11:47:43 PM	65502	
Ethylbenzene	ND	0.048	mg/Kg	1	2/14/2022 11:47:43 PM	65502	
Xylenes, Total	ND	0.096	mg/Kg	1	2/14/2022 11:47:43 PM	65502	
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	2/14/2022 11:47:43 PM	65502	

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG	Client Sample ID: TH-13/4						
Project: Copelan Federal 1	Collection Date: 2/9/2022 3:26:00 PM						
Lab ID: 2202571-010	Matrix: SOIL         Received Date: 2/11/2022 8:00:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	MRA	
Chloride	350	60	mg/Kg	20	2/17/2022 4:25:52 PM	65610	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB	
Diesel Range Organics (DRO)	150	9.0	mg/Kg	1	2/16/2022 2:29:35 PM	65518	
Motor Oil Range Organics (MRO)	340	45	mg/Kg	1	2/16/2022 2:29:35 PM	65518	
Surr: DNOP	124	51.1-141	%Rec	1	2/16/2022 2:29:35 PM	65518	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/15/2022 12:11:12 AM	65502	
Surr: BFB	113	70-130	%Rec	1	2/15/2022 12:11:12 AM	65502	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.023	mg/Kg	1	2/15/2022 12:11:12 AM	65502	
Toluene	ND	0.047	mg/Kg	1	2/15/2022 12:11:12 AM	65502	
Ethylbenzene	ND	0.047	mg/Kg	1	2/15/2022 12:11:12 AM	65502	
Xylenes, Total	ND	0.093	mg/Kg	1	2/15/2022 12:11:12 AM	65502	
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	2/15/2022 12:11:12 AM	65502	

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG		Cl	ient Sample I	D: TH	H-7/2	
Project: Copelan Federal 1		(	Collection Da	te: 2/9	9/2022 3:47:00 PM	
Lab ID: 2202571-011	Matrix: SOIL		<b>Received Da</b>	<b>te:</b> 2/1	1/2022 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	610	60	mg/Kg	20	2/17/2022 4:38:16 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/16/2022 12:29:44 AM	65518
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/16/2022 12:29:44 AM	65518
Surr: DNOP	86.4	51.1-141	%Rec	1	2/16/2022 12:29:44 AM	65518
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/15/2022 12:34:36 AM	65502
Surr: BFB	111	70-130	%Rec	1	2/15/2022 12:34:36 AM	65502
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	2/15/2022 12:34:36 AM	65502
Toluene	ND	0.048	mg/Kg	1	2/15/2022 12:34:36 AM	65502
Ethylbenzene	ND	0.048	mg/Kg	1	2/15/2022 12:34:36 AM	65502
Xylenes, Total	ND	0.096	mg/Kg	1	2/15/2022 12:34:36 AM	65502
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	2/15/2022 12:34:36 AM	65502

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202571

Date Reported: 2/22/2022

CLIENT: EOG		C	ient Sample II	D: TH	H-7/4	
Project: Copelan Federal 1		(	Collection Dat	<b>e:</b> 2/9	9/2022 4:00:00 PM	
Lab ID: 2202571-012	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 2/1	1/2022 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	760	60	mg/Kg	20	2/17/2022 4:50:41 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/16/2022 12:40:43 AM	65518
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/16/2022 12:40:43 AM	65518
Surr: DNOP	78.8	51.1-141	%Rec	1	2/16/2022 12:40:43 AM	65518
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/15/2022 12:58:04 AM	65502
Surr: BFB	113	70-130	%Rec	1	2/15/2022 12:58:04 AM	65502
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	2/15/2022 12:58:04 AM	65502
Toluene	ND	0.049	mg/Kg	1	2/15/2022 12:58:04 AM	65502
Ethylbenzene	ND	0.049	mg/Kg	1	2/15/2022 12:58:04 AM	65502
Xylenes, Total	ND	0.099	mg/Kg	1	2/15/2022 12:58:04 AM	65502
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	2/15/2022 12:58:04 AM	65502

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

**Qualifiers:** 

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

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Client: Project:	EOG Copelan	Federal 1									
Sample ID:	MB-65610	SampT	ype: <b>m</b> k	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 65	610	F	RunNo: <b>8</b>	5918				
Prep Date:	2/17/2022	Analysis Da	ate: 2/	17/2022	S	SeqNo: 3	025704	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-65610	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 65	610	F	RunNo: <b>8</b>	5918				
Prep Date:	2/17/2022	Analysis Da	ate: 2/	17/2022	S	SeqNo: 3	025705	Units: <b>mg/K</b>	g		
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 Quanitative 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

2202571

22-Feb-22

WO#:

## **OC SUMMARY REPORT** H \_

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	WO#:	2202571
Hall Environmental Analysis Laboratory, Inc.		22-Feb-22

Client:EOGProject:Copela	n Federal 1							
Sample ID: LCS-65517	SampType:	LCS	Test	tCode: EPA Method	8015M/D: Diesel	Range Org	janics	
Client ID: LCSS	Batch ID:	65517	R	unNo: <b>85859</b>				
Prep Date: 2/14/2022	Analysis Date:	2/15/2022	S	GeqNo: <b>3023640</b>	Units: mg/Kg			
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPI	DLimit	Qual
Diesel Range Organics (DRO)	41	10 50.00	0	81.9 68.9	135			
Surr: DNOP	4.0	5.000		79.3 51.1	141			
Sample ID: LCS-65518	SampType:	LCS	Test	tCode: EPA Method	8015M/D: Diesel	Range Org	janics	
Client ID: LCSS	Batch ID:	65518	R	unNo: <b>85859</b>				
Prep Date: 2/14/2022	Analysis Date:	2/15/2022	S	eqNo: <b>3023641</b>	Units: mg/Kg			
Analyte	Result PO	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %	RPD RPI	DLimit	Qual
Diesel Range Organics (DRO)	42	10 50.00	0	83.7 68.9	135			
Surr: DNOP	4.0	5.000		79.6 51.1	141			
Sample ID: MB-65517	SampType:	BLK	Tes	tCode: EPA Method	8015M/D: Diesel	Range Org	janics	
Sample ID: MB-65517 Client ID: PBS	SampType: Batch ID:			Code: EPA Method RunNo: 85859	8015M/D: Diesel	Range Org	janics	
		65517	R		8015M/D: Diesel Units: mg/Kg	Range Org	janics	
Client ID: PBS	Batch ID: Analysis Date:	65517 2/15/2022	R	2unNo: <b>85859</b> GeqNo: <b>3023642</b>	Units: <b>mg/Kg</b>		<b>janics</b> DLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b>	Batch ID: Analysis Date:	65517 2/15/2022	R	2unNo: <b>85859</b> GeqNo: <b>3023642</b>	Units: <b>mg/Kg</b>			Qual
Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b> Analyte	Batch ID: Analysis Date: Result P(	65517 2/15/2022 QL SPK value	R	2unNo: <b>85859</b> GeqNo: <b>3023642</b>	Units: <b>mg/Kg</b>			Qual
Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b> Analyte Diesel Range Organics (DRO)	Batch ID: Analysis Date: Result PO ND	65517 2/15/2022 QL SPK value 10	R	2unNo: <b>85859</b> GeqNo: <b>3023642</b>	Units: <b>mg/Kg</b>			Qual
Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID: Analysis Date: Result P( ND ND	65517 2/15/2022 QL SPK value 10 50 10.00	R SPK Ref Val	RunNo: <b>85859</b> GeqNo: <b>3023642</b> %REC LowLimit	Units: <b>mg/Kg</b> HighLimit % 141	RPD RPI	DLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	Batch ID: Analysis Date: Result PC ND ND 9.9	65517 2/15/2022 QL SPK value 10 50 10.00	R SPK Ref Val Test	RunNo: <b>85859</b> GeqNo: <b>3023642</b> %REC LowLimit 99.1 51.1	Units: <b>mg/Kg</b> HighLimit % 141	RPD RPI	DLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-65518</b>	Batch ID: Analysis Date: Result PC ND ND 9.9 SampType:	65517 2/15/2022 QL SPK value 10 50 10.00 : MBLK 65518	R SPK Ref Val Test R	RunNo: <b>85859</b> SeqNo: <b>3023642</b> %REC LowLimit 99.1 51.1 Code: <b>EPA Method</b>	Units: <b>mg/Kg</b> HighLimit % 141	RPD RPI	DLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-65518</b> Client ID: <b>PBS</b>	Batch ID: Analysis Date: Result PC ND ND 9.9 SampType: Batch ID: Analysis Date:	65517 2/15/2022 QL SPK value 10 50 10.00 : MBLK 65518 2/15/2022	R SPK Ref Val Test R	RunNo: 85859 SeqNo: 3023642 <u>%REC LowLimit</u> 99.1 51.1 Code: EPA Method RunNo: 85859 SeqNo: 3023643	Units: mg/Kg HighLimit % 141 8015M/D: Diesel Units: mg/Kg	RPD RPI	DLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-65518</b> Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b>	Batch ID: Analysis Date: Result PC ND ND 9.9 SampType: Batch ID: Analysis Date:	65517 2/15/2022 QL SPK value 10 50 10.00 : MBLK 65518 2/15/2022	R SPK Ref Val Test R S	RunNo: 85859 SeqNo: 3023642 <u>%REC LowLimit</u> 99.1 51.1 Code: EPA Method RunNo: 85859 SeqNo: 3023643	Units: mg/Kg HighLimit % 141 8015M/D: Diesel Units: mg/Kg	RPD RPI	DLimit Janics	
Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-65518</b> Client ID: <b>PBS</b> Prep Date: <b>2/14/2022</b> Analyte	Batch ID: Analysis Date: Result PC ND ND 9.9 SampType: Batch ID: Analysis Date: Result PC	65517 2/15/2022 QL SPK value 10 50 10.00 : MBLK 65518 2/15/2022 QL SPK value	R SPK Ref Val Test R S	RunNo: 85859 SeqNo: 3023642 <u>%REC LowLimit</u> 99.1 51.1 Code: EPA Method RunNo: 85859 SeqNo: 3023643	Units: mg/Kg HighLimit % 141 8015M/D: Diesel Units: mg/Kg	RPD RPI	DLimit Janics	

### Qualifiers:

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

# **QC SUMMARY REPORT** Ha

	WO#:	2202571
Iall Environmental Analysis Laboratory, Inc.		22-Feb-22

Client: EOG			
Project: Copelar	r Federal 1		
Sample ID: mb-65499	SampType: MBLK	TestCode: EPA Method 8	8015D: Gasoline Range
Client ID: PBS	Batch ID: 65499	RunNo: 85817	
Prep Date: 2/11/2022	Analysis Date: 2/14/2022	SeqNo: 3021837	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1100 10	00 114 70	130
Sample ID: LCS-65499	SampType: LCS	TestCode: EPA Method 8	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 65499	RunNo: 85817	
Prep Date: 2/11/2022	Analysis Date: 2/14/2022	SeqNo: 3021838	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	25 5.0 25		131
Surr: BFB	1200 10	00 123 70	130
Sample ID: mb-65502	SampType: MBLK	TestCode: EPA Method 8	8015D: Gasoline Range
Client ID: PBS	Batch ID: 65502	RunNo: 85817	
Prep Date: 2/11/2022	Analysis Date: 2/14/2022	SeqNo: 3021859	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0		
Surr: BFB	1200 10	00 117 70	130
Sample ID: Ics-65502	SampType: LCS	TestCode: EPA Method 8	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 65502	RunNo: 85817	
Prep Date: 2/11/2022	Analysis Date: 2/14/2022	SeqNo: 3021860	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	26 5.0 25		131
Surr: BFB	1300 10	00 131 70	130 S

### Qualifiers:

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

## **OC SUMMARY REPORT**

L.	Hall Environmental Analysis Laboratory, Inc.				
Client: Project:	EOG Copela	an Federal 1			
Sample ID: mt	o-65499	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles		
Client ID: PE	s	Batch ID: 65499	RunNo: 85817		
Prep Date: 2	/11/2022	Analysis Date: 2/14/2022	SeqNo: 3021884 Units: mg/Kg		
Analyte		Result PQL SPK va	K Ref Val %REC LowLimit HighLimit %RPD RPDLi	imit Qual	

7 that yes	Result	I QL				LOWLINI	riigiiEinne		IN DEIIIII	Quui
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			
Sample ID: Ics-65499	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 654	499	F	RunNo: <b>8</b>	5817				
Prep Date: 2/11/2022	Analysis [	Date: 2/	14/2022	S	SeqNo: 3	021885	Units: <b>mg/K</b>	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.6	80	120			
Toluene	0.97	0.050	1.000	0	97.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			
Sample ID: mb-65502	Samp	Гуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 65	502	F	RunNo: <b>8</b>	5817				
Prep Date: 2/11/2022	Analysis [	Date: 2/	14/2022	S	SeqNo: 3	021906	Units: mg/K	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			
Sample ID: LCS-65502	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 65	502	F	RunNo: <b>8</b>	5817				
Prep Date: 2/11/2022	Analysis [	Date: 2/	14/2022	5	SeqNo: 3	021907	Units: <b>mg/K</b>	٢g		
						1	llight insit			0
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Benzene	Result 0.96	PQL 0.025	SPK value 1.000	SPK Ref Val	%REC 95.6	LowLimit 80	HighLimit 120	%RPD	RPDLIMIt	Quai
							0	%RPD	RPDLIMIT	Quai
Benzene	0.96	0.025	1.000	0	95.6	80	120	%RPD	RPDLIMIt	Quai

#### **Qualifiers:**

Xylenes, Total

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

Surr: 4-Bromofluorobenzene

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

0.10

3.000

1.000

3.0

1.1

В Analyte detected in the associated Method Blank

101

112

80

70

120

130

Е Estimated value

0

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

Page 16 of 16

Page	<b>79</b>	of	144

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmen TEL: 505-345-3 Website: client.	49 Albuquer 975 FAX	01 Haw pue, NA 505-3-	kins NE 1 87109 15-4107	Sample Log-In Check List			
Client Name: EOG	Work Order Num	oer: 220	2571			RcptNo: 1		
Received By: Tracy Casarrubias	2/11/2022 8:00:00	AM						
Completed By: Tracy Casarrubias	2/11/2022 9:46:03 /	AM						
Reviewed By: KPG 2	11/22							
Chain of Custody	A.							
1. Is Chain of Custody complete?		Yes	~	No	<b>D</b>	Not Present		
2. How was the sample delivered?		Cou	rier					
<u>Log In</u>								
3. Was an attempt made to cool the sam	ples?	Yes		No		NA 🗌		
4. Were all samples received at a temper	ature of >0° C to 6.0°C	Yes		No				
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) p	operly 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	â	No		NA 🔽		
10. Were any sample containers received	proken?	Yes						
11. Does paperwork match bottle labels?		Yes		No		# of preserved bottles checked for pH:		
(Note discrepancies on chain of custod					_	(<2 or >12 unless noted)		
12. Are matrices correctly identified on Cha				No		Adjusted?		
13. Is it clear what analyses were requested 14. Were all holding times able to be met?	1?			No		Checked by: Jr 2/11/22		
(If no, notify customer for authorization.		Yes	~	No		Checked by: Jrt 2111/22		
Special Handling (if applicable)					-			
15. Was client notified of all discrepancies	with this order?	Yes		No		NA 🔽		
Person Notified:	Date:				-			
By Whom:	Via:	🗌 eMa	i 🗆	Phone	Fax	In Person		
Regarding:			-		0.000			
Client Instructions:								
16. Additional remarks:								
17. <u>Cooler Information</u> Cooler No Temp ºC Condition	Seal Intact Seal No	Seal Da	te	Signed I	Bv			
1 3.9 Good	Yes			-ignou i	-,			

Page 1 of 1



March 01, 2022

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

OrderNo.: 2202910

RE: Copelan Federal 1

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 10 sample(s) on 2/18/2022 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 or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

CLIENT: EOG		C	ient Sample II	<b>):</b> TH	H-14/1	
Project: Copelan Federal 1		(	Collection Dat	<b>e:</b> 2/1	16/2022 9:04:00 AM	
Lab ID: 2202910-001	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 2/1	18/2022 7:36:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	ЈМТ
Chloride	ND	60	mg/Kg	20	2/25/2022 10:12:25 AM	65795
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/23/2022 1:16:33 AM	65677
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/23/2022 1:16:33 AM	65677
Surr: DNOP	64.7	51.1-141	%Rec	1	2/23/2022 1:16:33 AM	65677
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/22/2022 3:34:00 AM	65664
Surr: BFB	109	70-130	%Rec	1	2/22/2022 3:34:00 AM	65664
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	2/22/2022 3:34:00 AM	65664
Toluene	ND	0.049	mg/Kg	1	2/22/2022 3:34:00 AM	65664
Ethylbenzene	ND	0.049	mg/Kg	1	2/22/2022 3:34:00 AM	65664
Xylenes, Total	ND	0.099	mg/Kg	1	2/22/2022 3:34:00 AM	65664
Surr: 4-Bromofluorobenzene	89.3	70-130	%Rec	1	2/22/2022 3:34:00 AM	65664

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

**Qualifiers:** 

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

RL Reporting Limit Page 1 of 14

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

CLIENT: EOG		Cl	ient Sample II	D: TH	H-14/4		
Project: Copelan Federal 1		(	Collection Dat	<b>e:</b> 2/1	16/2022 9:10:00 AM		
Lab ID: 2202910-002	Matrix: SOIL         Received Date: 2/18/2022 7:36:00 AM						
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	JMT	
Chloride	ND	60	mg/Kg	20	2/25/2022 10:24:50 AM	65795	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/23/2022 1:27:12 AM	65677	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/23/2022 1:27:12 AM	65677	
Surr: DNOP	104	51.1-141	%Rec	1	2/23/2022 1:27:12 AM	65677	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/22/2022 3:54:00 AM	65664	
Surr: BFB	104	70-130	%Rec	1	2/22/2022 3:54:00 AM	65664	
EPA METHOD 8021B: VOLATILES					Analyst	RAA	
Benzene	ND	0.025	mg/Kg	1	2/22/2022 3:54:00 AM	65664	
Toluene	ND	0.049	mg/Kg	1	2/22/2022 3:54:00 AM	65664	
Ethylbenzene	ND	0.049	mg/Kg	1	2/22/2022 3:54:00 AM	65664	
Xylenes, Total	ND	0.099	mg/Kg	1	2/22/2022 3:54:00 AM	65664	
Surr: 4-Bromofluorobenzene	88.8	70-130	%Rec	1	2/22/2022 3:54:00 AM	65664	

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

**Qualifiers:** 

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

Page 2 of 14

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

CLIENT: EOG		Cl	ient Sample II	D: TH	I-15/1		
Project: Copelan Federal 1		(	Collection Dat	<b>e:</b> 2/1	6/2022 9:32:00 AM		
Lab ID: 2202910-003	Matrix: SOIL         Received Date: 2/18/2022 7:36:00 AM						
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analysi	: JMT	
Chloride	230	60	mg/Kg	20	2/25/2022 10:37:14 AN	65795	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: SB	
Diesel Range Organics (DRO)	65	9.6	mg/Kg	1	2/24/2022 6:49:36 AM	65677	
Motor Oil Range Organics (MRO)	190	48	mg/Kg	1	2/24/2022 6:49:36 AM	65677	
Surr: DNOP	92.9	51.1-141	%Rec	1	2/24/2022 6:49:36 AM	65677	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: RAA	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/22/2022 4:13:00 AM	65664	
Surr: BFB	100	70-130	%Rec	1	2/22/2022 4:13:00 AM	65664	
EPA METHOD 8021B: VOLATILES					Analyst	: RAA	
Benzene	ND	0.025	mg/Kg	1	2/22/2022 4:13:00 AM	65664	
Toluene	ND	0.050	mg/Kg	1	2/22/2022 4:13:00 AM	65664	
Ethylbenzene	ND	0.050	mg/Kg	1	2/22/2022 4:13:00 AM	65664	
Xylenes, Total	ND	0.10	mg/Kg	1	2/22/2022 4:13:00 AM	65664	
Surr: 4-Bromofluorobenzene	87.3	70-130	%Rec	1	2/22/2022 4:13:00 AM	65664	

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

**Qualifiers:** 

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

Page 3 of 14

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

CLIENT: EOG		Cl	ient Sample	ID: TH	H-15/4		
Project: Copelan Federal 1		(	Collection Da	te: 2/1	16/2022 9:38:00 AM		
Lab ID: 2202910-004	Matrix: SOIL		Received Da	te: 2/1	18/2022 7:36:00 AM	Batch           yst:         JMT           AM         65795           yst:         SB           M         65677           M         65677           M         65677           M         65667           M         65664           M         65664	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	: JMT	
Chloride	650	60	mg/Ko	g 20	2/25/2022 10:49:39 AM	65795	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	: SB	
Diesel Range Organics (DRO)	ND	10	mg/Kg	<b>j</b> 1	2/23/2022 1:48:41 AM	65677	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	<b>j</b> 1	2/23/2022 1:48:41 AM	65677	
Surr: DNOP	137	51.1-141	%Rec	1	2/23/2022 1:48:41 AM	65677	
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	RAA	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	<b>j</b> 1	2/22/2022 4:33:00 AM	65664	
Surr: BFB	105	70-130	%Rec	1	2/22/2022 4:33:00 AM	65664	
EPA METHOD 8021B: VOLATILES					Analys	: RAA	
Benzene	ND	0.024	mg/Kg	<b>j</b> 1	2/22/2022 4:33:00 AM	65664	
Toluene	ND	0.048	mg/Kg	<b>j</b> 1	2/22/2022 4:33:00 AM	65664	
Ethylbenzene	ND	0.048	mg/Ko	<b>j</b> 1	2/22/2022 4:33:00 AM	65664	
Xylenes, Total	ND	0.096	mg/Ko	<b>j</b> 1	2/22/2022 4:33:00 AM	65664	
Surr: 4-Bromofluorobenzene	89.4	70-130	%Rec	1	2/22/2022 4:33:00 AM	65664	

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits

- Р Sample pH Not In Range
- RL Reporting Limit

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Surr: 4-Bromofluorobenzene

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

2/22/2022 4:53:00 AM 65664

CLIENT: EOG		Cl	ient Sample II	D: TH	I-16/1	
Project: Copelan Federal 1		(	Collection Dat	<b>e:</b> 2/1	6/2022 9:56:00 AM	
Lab ID: 2202910-005	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 2/1	8/2022 7:36:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	2/25/2022 11:02:03 AM	65795
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/23/2022 1:59:26 AM	65677
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/23/2022 1:59:26 AM	65677
Surr: DNOP	107	51.1-141	%Rec	1	2/23/2022 1:59:26 AM	65677
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/22/2022 4:53:00 AM	65664
Surr: BFB	106	70-130	%Rec	1	2/22/2022 4:53:00 AM	65664
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	2/22/2022 4:53:00 AM	65664
Toluene	ND	0.050	mg/Kg	1	2/22/2022 4:53:00 AM	65664
Ethylbenzene	ND	0.050	mg/Kg	1	2/22/2022 4:53:00 AM	65664
Xylenes, Total	ND	0.10	mg/Kg	1	2/22/2022 4:53:00 AM	65664

87.8

70-130

%Rec

1

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

**Qualifiers:** 

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

Page 5 of 14

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

CLIENT: EOG		C	ient Sample II	D: TH	I-16/4				
Project: Copelan Federal 1		(	Collection Dat	<b>e:</b> 2/1	6/2022 10:02:00 AM				
Lab ID: 2202910-006	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 2/1	8/2022 7:36:00 AM	Batch           Ilyst:         JMT           AM         65795           Ilyst:         SB           AM         65677           AM         65677           AM         65677           AM         656677           AM         65664           AM         65664           AM         65664           AM         65664           AM         65664           AM         65664           AM         65664			
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analysi	: JMT			
Chloride	72	60	mg/Kg	20	2/25/2022 11:14:28 AN	65795			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: SB			
Diesel Range Organics (DRO)	25	9.6	mg/Kg	1	2/25/2022 9:13:01 AM	65677			
Motor Oil Range Organics (MRO)	91	48	mg/Kg	1	2/25/2022 9:13:01 AM	65677			
Surr: DNOP	108	51.1-141	%Rec	1	2/25/2022 9:13:01 AM	65677			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	RAA			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/22/2022 5:12:00 AM	65664			
Surr: BFB	103	70-130	%Rec	1	2/22/2022 5:12:00 AM	65664			
EPA METHOD 8021B: VOLATILES					Analyst	: RAA			
Benzene	ND	0.024	mg/Kg	1	2/22/2022 5:12:00 AM	65664			
Toluene	ND	0.048	mg/Kg	1	2/22/2022 5:12:00 AM	65664			
Ethylbenzene	ND	0.048	mg/Kg	1	2/22/2022 5:12:00 AM	65664			
Xylenes, Total	ND	0.097	mg/Kg	1	2/22/2022 5:12:00 AM	65664			
Surr: 4-Bromofluorobenzene	88.6	70-130	%Rec	1	2/22/2022 5:12:00 AM	65664			

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

CLIENT: EOG		C	ient Sample II	D: TH	H-8/2	
Project: Copelan Federal 1		(	Collection Dat	e: 2/1	6/2022 10:21:00 AM	
Lab ID: 2202910-007	Matrix: SOIL		<b>Received Dat</b>	e: 2/1	8/2022 7:36:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	360	61	mg/Kg	20	2/25/2022 11:51:42 AM	65795
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/23/2022 2:20:50 AM	65677
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/23/2022 2:20:50 AM	65677
Surr: DNOP	123	51.1-141	%Rec	1	2/23/2022 2:20:50 AM	65677
EPA METHOD 8015D: GASOLINE RANGE	i i				Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/22/2022 5:32:00 AM	65664
Surr: BFB	105	70-130	%Rec	1	2/22/2022 5:32:00 AM	65664
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	2/22/2022 5:32:00 AM	65664
Toluene	ND	0.050	mg/Kg	1	2/22/2022 5:32:00 AM	65664
Ethylbenzene	ND	0.050	mg/Kg	1	2/22/2022 5:32:00 AM	65664
Xylenes, Total	ND	0.099	mg/Kg	1	2/22/2022 5:32:00 AM	65664
Surr: 4-Bromofluorobenzene	89.3	70-130	%Rec	1	2/22/2022 5:32:00 AM	65664

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

CLIENT: EOG		Cl	ient Sample II	): TH	I-8/4			
<b>Project:</b> Copelan Federal 1	Collection Date: 2/16/2022 10:25:00 AM							
Lab ID: 2202910-008	Matrix: SOIL		<b>Received Date</b>	e: 2/1	18/2022 7:36:00 AM			
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: JMT		
Chloride	590	60	mg/Kg	20	2/25/2022 12:04:07 PM	65795		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: SB		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/23/2022 2:31:29 AM	65677		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/23/2022 2:31:29 AM	65677		
Surr: DNOP	86.3	51.1-141	%Rec	1	2/23/2022 2:31:29 AM	65677		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/22/2022 5:52:00 AM	65664		
Surr: BFB	105	70-130	%Rec	1	2/22/2022 5:52:00 AM	65664		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.024	mg/Kg	1	2/22/2022 5:52:00 AM	65664		
Toluene	ND	0.049	mg/Kg	1	2/22/2022 5:52:00 AM	65664		
Ethylbenzene	ND	0.049	mg/Kg	1	2/22/2022 5:52:00 AM	65664		
Xylenes, Total	ND	0.098	mg/Kg	1	2/22/2022 5:52:00 AM	65664		
Surr: 4-Bromofluorobenzene	88.6	70-130	%Rec	1	2/22/2022 5:52:00 AM	65664		

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

CLIENT: EOG		Cl	ient Sample I	D: TH	I-9/2			
Project: Copelan Federal 1			Collection Dat	<b>e:</b> 2/1	6/2022 10:46:00 AM			
Lab ID: 2202910-009	Matrix: SOIL		<b>Received Dat</b>	e: 2/1	8/2022 7:36:00 AM	Batch           alyst:         JMT           2 PM         65795           alyst:         SB           AM         65677           AM         65677           AM         65677           AM         65667           AM         65664           AM         65664		
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analysi	: JMT		
Chloride	240	60	mg/Kg	20	2/25/2022 12:16:32 PN	65795		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: SB		
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/23/2022 2:42:06 AM	65677		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/23/2022 2:42:06 AM	65677		
Surr: DNOP	123	51.1-141	%Rec	1	2/23/2022 2:42:06 AM	65677		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/22/2022 6:11:00 AM	65664		
Surr: BFB	107	70-130	%Rec	1	2/22/2022 6:11:00 AM	65664		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.025	mg/Kg	1	2/22/2022 6:11:00 AM	65664		
Toluene	ND	0.050	mg/Kg	1	2/22/2022 6:11:00 AM	65664		
Ethylbenzene	ND	0.050	mg/Kg	1	2/22/2022 6:11:00 AM	65664		
Xylenes, Total	ND	0.10	mg/Kg	1	2/22/2022 6:11:00 AM	65664		
Surr: 4-Bromofluorobenzene	89.7	70-130	%Rec	1	2/22/2022 6:11:00 AM	65664		

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2202910

Date Reported: 3/1/2022

CLIENT: EOG			ient Sample II			
<b>Project:</b> Copelan Federal 1			Collection Dat	<b>e:</b> 2/1	16/2022 10:50:00 AM	
Lab ID: 2202910-010	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 2/1	18/2022 7:36:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	340	60	mg/Kg	20	2/25/2022 12:28:56 PM	65795
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/24/2022 5:11:48 PM	65745
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/24/2022 5:11:48 PM	65745
Surr: DNOP	85.3	51.1-141	%Rec	1	2/24/2022 5:11:48 PM	65745
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/22/2022 11:04:00 AM	65691
Surr: BFB	107	70-130	%Rec	1	2/22/2022 11:04:00 AM	65691
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	2/22/2022 11:04:00 AM	65691
Toluene	ND	0.049	mg/Kg	1	2/22/2022 11:04:00 AM	65691
Ethylbenzene	ND	0.049	mg/Kg	1	2/22/2022 11:04:00 AM	65691
Xylenes, Total	ND	0.099	mg/Kg	1	2/22/2022 11:04:00 AM	65691
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	2/22/2022 11:04:00 AM	65691

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

**Qualifiers:** 

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- Н Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
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- в Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Р Sample pH Not In Range
- RL Reporting Limit

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Client:	EOG								
Project:	Copelan	Federal 1							
Sample ID:	MB-65795	SampType:	mblk	Tes	Code: EPA Method	300.0: Anions			
Client ID:	PBS	Batch ID:	65795	R	unNo: <b>86105</b>				
Prep Date:	2/24/2022	Analysis Date:	2/25/2022	S	eqNo: <b>3034737</b>	Units: mg/Kg			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5						
Sample ID:	LCS-65795	SampType:	lcs	Test	Code: EPA Method	300.0: Anions			
Client ID:	LCSS	Batch ID:	65795	R	unNo: <b>86105</b>				
Prep Date:	2/24/2022	Analysis Date:	2/25/2022	S	eqNo: <b>3034738</b>	Units: <b>mg/Kg</b>			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5 15.00	0	91.0 90	110			

#### Qualifiers:

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- RL Reporting Limit

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01-Mar-22

WO#:

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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WO#:	2202910

01-Mar-22

Client: EOG					
Project: Copelar	n Federal 1				
Sample ID: LCS-65677	SampType: LCS	Tes	stCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: LCSS	Batch ID: 65677	F	RunNo: <b>85993</b>		
Prep Date: 2/21/2022	Analysis Date: 2/22/202	22 3	SeqNo: <b>3030888</b>	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	49 10	50.00 0	98.5 68.9	135	
Surr: DNOP	4.7	5.000	94.3 51.1	141	
Sample ID: MB-65677	SampType: MBLK	Tes	stCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: PBS	Batch ID: 65677	F	RunNo: <b>85993</b>		
Prep Date: 2/21/2022	Analysis Date: 2/22/202	22 \$	SeqNo: <b>3030891</b>	Units: mg/Kg	
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 10				
Motor Oil Range Organics (MRO)	ND 50				
Surr: DNOP	9.8	10.00	98.1 51.1	141	
Sample ID: LCS-65745	SampType: LCS	Tes	stCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: LCSS	Batch ID: 65745	F	RunNo: <b>86063</b>		
Prep Date: 2/23/2022	Analysis Date: 2/24/202	22 \$	SeqNo: <b>3033007</b>	Units: mg/Kg	
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	51 10	50.00 0	101 68.9	135	
Surr: DNOP	4.7	5.000	94.2 51.1	141	
Sample ID: MB-65745	SampType: MBLK	Tes	stCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: PBS	Batch ID: 65745	F	RunNo: <b>86063</b>		
Prep Date: 2/23/2022	Analysis Date: 2/24/202	22 \$	SeqNo: <b>3033011</b>	Units: mg/Kg	
Analyte	Result PQL SPK	value SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 10				
Motor Oil Range Organics (MRO)	ND 50				
Surr: DNOP	9.7	10.00	96.9 51.1	141	

#### Qualifiers:

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

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<u> </u>		

2202910	WO#:
01-Mar-22	

Client: EOG Project: Copelar	n Federal 1								
Sample ID: Ics-65664	SampType: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 65	664	F	RunNo: 8	5977				
Prep Date: 2/18/2022	Analysis Date: 2	21/2022	S	SeqNo: 3	028617	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26 5.0	25.00	0	104	78.6	131			
Surr: BFB	1200	1000		120	70	130			
Sample ID: mb-65664	SampType: M	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 65	664	F	RunNo: 8	5977				
Prep Date: 2/18/2022	Analysis Date: 2	21/2022	S	SeqNo: 3	028618	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	1100	1000		105	70	130			
Sample ID: Ics-65691	SampType: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 65	691	F	RunNo: 8	6012				
Prep Date: 2/21/2022	Analysis Date: 2	22/2022	S	SeqNo: 3	030314	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30 5.0	25.00	0	121	78.6	131			
Surr: BFB	1200	1000		122	70	130			
Sample ID: mb-65691	SampType: MI	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: 65	691	F	RunNo: 8	6012				
Prep Date: 2/21/2022	Analysis Date: 2	22/2022	S	SeqNo: 3	030315	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	1200	1000		116	70	130			

#### Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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#:	2202910

01-Mar-22

Client: EOG										
Project: Copela	in Federal 1									
Sample ID: Ics-65664	SampT	ype: LC	S	Tes	tCode: El					
Client ID: LCSS	Batch	Batch ID: 65664			RunNo: <b>8</b>					
Prep Date: 2/18/2022	Analysis D	ate: 2/2	21/2022	S	SeqNo: 3	028671	Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	80	120			
Toluene	0.98	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	70	130			
Sample ID: mb-65664	SampT	ype: <b>MB</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 656	664	F	RunNo: <b>8</b>	5977				
Prep Date: 2/18/2022	Analysis D	ate: 2/2	21/2022	S	SeqNo: 3	028672	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	70	130			
Sample ID: Ics-65691	SampT	ype: LC	S	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch	n ID: 656	691	F	RunNo: 86012					
Prep Date: 2/21/2022	Analysis D	ate: 2/2	22/2022	S	SeqNo: 3	030371	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	95.8	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.5	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	70	130			
Sample ID: mb-65691	SampT	уре: <b>МВ</b>	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	n ID: 656	691	F	RunNo: <b>8</b>	6012				
Prep Date: 2/21/2022	Analysis D	ate: 2/2	22/2022	S	SeqNo: 3	030372	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	70	130			

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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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ANAL	RONMEN YSIS Ratory	TAL	Т	all Environmen 2 EL: 505-345-39 Vebsite: clients	49 1lbuquer 275 FAX	01 Hawi que. NM 505-34	kins NE 1 87109 5-4107	Sa	mple Log-In C	heck List
Client Name:	EOG		Wor	k Order Numb	oer: 220	2910			RcptNo:	1
Received By:	Tracy Ca	sarrubias	2/18/2	022 7:36:00 A	M					
Completed By: Reviewed By:	1.	sarrubias 8-72	2/18/2	022 9:23:31 A	M					
Chain of Cus	stody									
1. Is Chain of C		olete?			Yes			o 🗌	Not Present	
2. How was the					Cou		IN			
<u>Log In</u> 3. Was an atten	npt made to	cool the sam	ples?		Yes		N	•		
4. Were all sam	ples received	d at a temper	ature of >0° C	to 6.0°C	Yes		N	•		
5. Sample(s) in	proper conta	ainer(s)?			Yes		N	• 🗆		
6. Sufficient sam	ple volume	for indicated I	test(s)?		Yes		No			
7. Are samples (				ed?	Yes					
8. Was preserva					Yes					
9. Received at le	ast 1 vial wi	h headspace	<1/4" for AQ \	/OA?	Yes		No			
10. Were any san	nple contain	ers received l	oroken?		Yes		N		# of preserved	
11. Does paperwo (Note discrepa			<i>v</i> )		Yes	•	No		bottles checked for pH:	-12 unless noted)
2. Are matrices o					Yes	~	No		Adjusted?	12 unless noted)
13. Is it clear what	analyses w	ere requested	1?			~	No		/	5.1
14. Were all holdir (If no, notify cu	ng times able istomer for a	e to be met? uthorization.)	).		Yes		No		Checked by:	1n2/18/22
Special Handli	ing (if app	licable)								
15. Was client no	No. of Concession, Name	State of the second	with this order?	,	Yes		No		NA 🔽	
Person	Notified:			Date:	_	_		_		
By Who	m:			Via:	🗌 eMa	a 🗖	Phone [	TEav	In Person	
Regardi	ng:							ux		
Client In	structions:									
16. Additional ren	narks:									
17. <u>Cooler Inforr</u> Cooler No	the second se	0								
1	Temp °C 4.7	Condition Good	Seal Intact Yes	Seal No	Seal Da	te	Signed	By		
2	4.2	Good	Yes							

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Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210     Coqe Lum Feedbarral (Rush 5- July TAT       Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210     Project Name:       Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210     Project Manager: Without the feedbarral (Full Validation)       Ranger: PO Box 201179, Austin TX 78720     Project Manager: Without the feedbarral (Full Validation)       Phone #: 521-335-1786     Project Manager: Without the feedbarral (Full Validation)       Phone #: 521-335-1786     Project Manager: Without the feedbarral (Full Validation)       Accreditation:     Az Compliance       Standard     Level 4 (Full Validation)       Accreditation:     Az Compliance       Standard     Onloc:       Bate     Time       Matrix     Sampler: U: / Level 2, Tat       Date     Time       Matrix     Sample Name       Coolers:     Coolers:       Photo-1 55:1     Tat+ -15/1       Photo-1     Tat+ -16/1       Photo-1     Coolers:       Photo-1     Coolers:       Photo-1     Coolers:       Photo-1     Coolers:       Photo-1     Coolers:       Photo-1     Tat+ -16/1       Photo-1     Coolers:       Photo-1     Coolers:       Photo-1     Coolers:       Photo-1     Coolers: </th <th></th>	
Address: EOG - 105 S 4th St. Artesia NM, 88210         Project Name:           Address: EOG - 105 S 4th St. Artesia NM, 88210         C.Q.P.C. Lun Feeducial 出し           PO Box 201179, Austin TX 78720         Project #: 5375           PO Box 201179, Austin TX 78720         Project #: 5375           PO Box 201179, Austin TX 78720         Project #: 5375           PO Box 201179, Austin TX 78720         Project #: 5375           Po Box 201179, Austin TX 78720         Project #: 5375           Project Manager: W. Kierdorf         Project #: 5375           Package:         Level 4 (Full Validation)           Package:         D Level 4 (Full Validation)           Package:         D Level 4 (Full Validation)           Package:         D Other           Project Manager: W. Kierdorf         Project Manager: W. Kierdorf           Package:         D Other           Control         Project Manager: W. Kierdorf           Package:         D Other           Colter         On los:           Matrix         Sampler: W. Level           Matrix         Sampler: W. Level           Matrix         Sampler: W. Level           Other         TH+ -14/4           Matrix         Sampler: W. Level           Matrix         Sampler: W. TH15/1	About Sol (GRO / DRO / MRO)       4901 Hawkins NE - Albuquerque, NM 87109       Tel. 505-345-3975       Fax 505-345-3975       Fax 505-345-3975       Fax 505-345-3975       Fax 505-345-4107       Analysis Request
Address: EOG - 105 S 4th St, Artesia NM, 82210     しのPolloci #: 5375       PO Box 201179, Austin TX 78720     Project #: 5375       PO Box 201179, Austin TX 78720     Project #: 5375       Po Box 201179, Austin TX 78720     Project #: 5375       Po Box 201179, Austin TX 78720     Project #: 5375       Po Box 201179, Austin TX 78720     Project #: 5375       Po Box 201179, Austin TX 78720     Project #: 5375       Po Box 201179, Austin TX 78720     Project Manager: W. Kierdorf       Package:     □ Level 4 (Full Validation)       Package:     □ Level 4 (Full Validation)       Package:     □ Level 4 (Full Validation)       Acc     □ Other       Differ     Preservative       Acc     □ Other       Differ     □ TH-14/14	Www.hallenvironmental.com         4901 Hawkins NE - Albuquerque, NM 87109         Tel. 505-345-3975       Fax 505-345-4107         Analysis Request         Analysis Request
PO Box 201179, Austin TX 78720     Project #: 5375       #: 521-335-1785     Fax#: Will@RangerEnv.com       Fax#: Will@RangerEnv.com     Project Manager: W. Kierdorf       adrad     □ Level 4 (Full Validation)       adrade:     □ Az Compliance       adrade:     □ Level 4 (Full Validation)       Ac     □ Other       Dologer Temple: W. The IN     □ Other       Dologer Tempreservative     □ AL       Dologer	450 Flawkins NE - Albuquerque, NM 87109         Tel: 505-345-3975         Fax 505-345-4107         Analysis Request         Analysis Request         Analysis Request
#: 521-335-1785 Fex#: Will@RangerEnv.com Project Manager: W. Kierdorf ackage: adard Level 4 (Full Validation) Lation: □ Az Compliance ad	Analysis Request
r Fax#: Will@RangerEnv.com Project Manager: W. Kierdorf Package: dard □ Level 4 (Full Validation) tation: □ Az Compliance Sampler: W. Leuneurl AC □ Other AC □ Other (Type) Excel = # of Cooler: ア Yes □ No (Type) Excel = # of Cooler: ア Yes □ No (Type) Excel = # of Cooler: Preservative HEAL No. Time Matrix Sample Name Type and # Type Offor Time Matrix Sample Name Type and # Type Offor TrH-14 4 (Note: Type and # Type offor TrH-16 (Type a	X       TPH:8015D(GRO / DRO / MRO)         X       Chloride (EPA 300)         X       C         X
Jackage:     Jackage:       Jackage:     Jackage:       dard     Level 4 (Full Validation)       tation:     Jac Compliance       AC     I Other       AC     Th+ Jul / J       Other     Th       Other <t< td=""><td>✓       TPH:8015D(GRO / DRO / MRO)         ✓       ✓</td></t<>	✓       TPH:8015D(GRO / DRO / MRO)         ✓       ✓
dard $\Box$ Level 4 (Full Validation)         tation: $\Box$ Z Compliance       Sampler: U   L_L u + L_M         AC $\Box$ Other       Sampler: U   L_L u + L_M         AC $\Box$ Other       mon         Time       Matrix       Sample Name       Type       Type         Dýby $5\%$ L       T'H - I/J       Lytype and #       Type       Type         Dýbý       T'H - I/J       Lytype and #       Type       COL       N         Dýbý       T'H - I/J       Lytype and #       Type       COL       N         Dýbý       T'H - I/J       Lytype       COL       N       N         Dýbý       T'H - I/J       Lytype       COL       N       N         Dýbý       T'H - I/L       Lytype       COL       N       N         Dýb       T'H - I/L       Lytype       COL       N       N       N <t< td=""><td>✓       TPH:8015D(GRO / DRO / M         ✓       ✓     </td></t<>	✓       TPH:8015D(GRO / DRO / M         ✓       ✓
tation: $\Box$ Az Compliance Sampler: U. Lenneum Contract Container AC $\Box$ other $\Box$ other $\Box$	X       TPH:8015D(GRO / DRO         X       Chloride (EPA 300)         X       X<
AC       Image: Decision of the contract of the container       Decision of the container       Model of the container       Matrix Sample Name       Model of the container       Matrix Sample Name       Type and #       Type       Type       Type       Type       Matrix Sample Name       Model of the container       Mean transmentation of the container       Mean transmen	✓       TPH:8015D(GRO / I         ✓       ✓
(Type)         Excel         # of Coolers: 2           Time         Matrix         Sample Name         # of Cooler Temp(metuding CF): S_M         R_MMUL1           Time         Matrix         Sample Name         Cooler Temp(metuding CF): S_M         R_MMUL1           Ofort         5%1         714-14/14         1xype         7767910         BTEX           Ofort         5%1         714-14/14         1xype         7001         X           Ofort         5%1         714-14/14         1xype         7002         1           Ofort         5%1         714-16/14         002         1         002           Ofort         5%2         714-16/14         002         1         002           Ofort         714-16/14         002         001         X         004           Ofort         714-16/14         002         001         X         003         1	
TimeMatrixSample NameCooler Temp(metueling CF): $S_{11}$ Limburk 1R1 $04bH$ $5\times 1$ $7H+14/4$ $7ype$ and # $7ype$ $2702910$ BIT $04bH$ $5\times 1$ $7H+14/4$ $1ype$ $2702910$ BIT $04D$ $7H+14/4$ $1ype$ $2702910$ $81E$ $04D$ $7H+14/4$ $1ype$ $2002$ $N$ $042$ $7H+16/1$ $1ype$ $2002$ $N$ $045$ $7H+16/1$ $001$ $N$ $045$ $7H+16/1$ $004$ $002$ $045$ $7H+16/1$ $004$ $004$	),02108:НАТ У ———————————————————————————————————
TimeMatrixSample NameContainerPreservativeHEAL No. $0404$ $5\times1$ $714-14/4$ $1yye2.rsv$ $Z_{Ce}$ $O01$ $N$ $0404$ $5\times1$ $714-14/4$ $1yye2.rsv$ $Z_{Ce}$ $O01$ $N$ $040$ $1+14/4$ $1yye2.rsv$ $Z_{Ce}$ $O01$ $N$ $042$ $1+14/4$ $1yye2.rsv$ $Z_{Ce}$ $O01$ $N$ $042$ $1+16/4$ $1yye2.rsv$ $Z_{Ce}$ $O01$ $N$ $042$ $714-16/4$ $002$ $002$ $N$ $045$ $714-16/4$ $004$ $004$ $004$ $062$ $714-16/4$ $004$ $004$ $004$	108:НЭТ Х
Débet       Sx:1       TH-14/1       Lethez.ru $ZCe$ OOI       N $O400$ $V$ TH-14/4       1 $000$ N $000$ N $O400$ $V$ TH-16/1 $000$ N $000$ N $O730$ TH-16/1 $000$ N $000$ N $0150$ TH-16/1 $000$ $000$ $000$ N $0150$ TH-16/1 $000$ $000$ $000$ N $0150$ TH-16/1 $000$ $000$ $000$ $000$ $000$	×
TH-14/4 TH-15/1 TH-15/1 TH-16/1 TH-10/1	
TH-15/1 TH-15/1 TH-16/1 TH-16/1	
TH-16/1 TH-16/2 TH-10/2	
TH-16/7	
TH-11,14	
102/ TH-8/2 CUT	
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Time: Relinquished by: Via: Date Time	Remarks: Bill to EOG Artesia
out tell annull and the second	L.F = 1.0+ 9.7(
Via: Ecure Date Time 7:3%	2. h ~ 1.0+ 1.4(.2



March 15, 2022 Will Kierdorf EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2203191

RE: Copelan Federal 1

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 16 sample(s) on 3/3/2022 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 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT: Project:	EOG Copelan Federal 1	Client Sample ID: TH-6/11 Collection Date: 3/1/2022 12:03:00 PM							
Project: Lab ID:	2203191-001	Matrix: SOIL         Received Date: 3/3/2022 8:10:00 AM							
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA MET	THOD 300.0: ANIONS					Analyst	: JMT		
Chloride		8400	300	mg/Kg	100	) 3/10/2022 5:23:35 AM	66014		
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: SB		
Diesel R	ange Organics (DRO)	ND	9.2	mg/Kg	1	3/7/2022 4:47:24 PM	65937		
Motor Oi	Range Organics (MRO)	ND	46	mg/Kg	1	3/7/2022 4:47:24 PM	65937		
Surr: I	DNOP	87.4	51.1-141	%Rec	1	3/7/2022 4:47:24 PM	65937		
EPA ME	THOD 8015D: GASOLINE RANGE	E				Analyst	RAA		
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	3/5/2022 9:43:00 PM	65929		
Surr: I	BFB	97.3	70-130	%Rec	1	3/5/2022 9:43:00 PM	65929		
EPA MET	THOD 8021B: VOLATILES					Analyst	: RAA		
Benzene		ND	0.024	mg/Kg	1	3/5/2022 9:43:00 PM	65929		
Toluene		ND	0.049	mg/Kg	1	3/5/2022 9:43:00 PM	65929		
Ethylben	izene	ND	0.049	mg/Kg	1	3/5/2022 9:43:00 PM	65929		
Xylenes,	Total	ND	0.098	mg/Kg	1	3/5/2022 9:43:00 PM	65929		
Surr: 4	4-Bromofluorobenzene	84.2	70-130	%Rec	1	3/5/2022 9:43:00 PM	65929		

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

**Qualifiers:** 

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

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Released to Imaging: 10/25/2022 11:46:29 AM

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT:		Client Sample ID: TH-6/14								
Project:	Copelan Federal 1	<b>Collection Date:</b> 3/1/2022 12:35:00 PM								
Lab ID:	2203191-002	Matrix: SOIL		Received Dat	t <b>e:</b> 3/3	3/2022 8:10:00 AM				
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT			
Chloride		4700	300	mg/Kg	100	) 3/10/2022 5:35:59 AM	66014			
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB			
Diesel Ra	ange Organics (DRO)	ND	9.0	mg/Kg	1	3/7/2022 4:58:05 PM	65937			
Motor Oil	Range Organics (MRO)	ND	45	mg/Kg	1	3/7/2022 4:58:05 PM	65937			
Surr: D	NOP	91.4	51.1-141	%Rec	1	3/7/2022 4:58:05 PM	65937			
EPA MET	HOD 8015D: GASOLINE RANGE					Analyst	RAA			
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	3/5/2022 10:03:00 PM	65929			
Surr: B	FB	96.8	70-130	%Rec	1	3/5/2022 10:03:00 PM	65929			
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA			
Benzene		ND	0.024	mg/Kg	1	3/5/2022 10:03:00 PM	65929			
Toluene		ND	0.048	mg/Kg	1	3/5/2022 10:03:00 PM	65929			
Ethylbenz	zene	ND	0.048	mg/Kg	1	3/5/2022 10:03:00 PM	65929			
Xylenes,	Total	ND	0.097	mg/Kg	1	3/5/2022 10:03:00 PM	65929			
Surr: 4	-Bromofluorobenzene	83.9	70-130	%Rec	1	3/5/2022 10:03:00 PM	65929			

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT:	EOG	Client Sample ID: TH-24/0 Collection Date: 3/1/2022 1:37:00 PM							
Project:	Copelan Federal 1								
Lab ID:	2203191-003	Matrix: SOIL	3/2022 8:10:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA ME	THOD 300.0: ANIONS					Analyst:	MRA		
Chloride		1200	60	mg/Kg	20	3/8/2022 5:43:47 PM	66014		
EPA ME	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	SB		
Diesel R	ange Organics (DRO)	36	9.3	mg/Kg	1	3/8/2022 9:25:05 PM	65937		
Motor Oil Range Organics (MRO)		130	46	mg/Kg	1	3/8/2022 9:25:05 PM	65937		
Surr:	DNOP	87.1	51.1-141	%Rec	1	3/8/2022 9:25:05 PM	65937		
EPA ME	THOD 8015D: GASOLINE RANGE	E				Analyst:	RAA		
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	3/5/2022 10:23:00 PM	65929		
Surr:	BFB	100	70-130	%Rec	1	3/5/2022 10:23:00 PM	65929		
EPA ME	THOD 8021B: VOLATILES					Analyst:	RAA		
Benzene	9	ND	0.025	mg/Kg	1	3/5/2022 10:23:00 PM	65929		
Toluene		ND	0.050	mg/Kg	1	3/5/2022 10:23:00 PM	65929		
Ethylber	izene	ND	0.050	mg/Kg	1	3/5/2022 10:23:00 PM	65929		
Xylenes,	, Total	ND	0.10	mg/Kg	1	3/5/2022 10:23:00 PM	65929		
Surr:	4-Bromofluorobenzene	85.4	70-130	%Rec	1	3/5/2022 10:23:00 PM	65929		

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

**Qualifiers:** 

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

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Released to Imaging: 10/25/2022 11:46:29 AM

Surr: 4-Bromofluorobenzene

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT: EOG	Client Sample ID: TH-24/4 Collection Date: 3/1/2022 1:45:00 PM							
Project: Copelan Federal 1								
Lab ID: 2203191-004	Matrix: SOIL		<b>Received Dat</b>	e:3/3	8/2022 8:10:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	330	60	mg/Kg	20	3/8/2022 6:20:48 PM	66024		
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst	SB		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/7/2022 5:19:28 PM	65937		
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/7/2022 5:19:28 PM	65937		
Surr: DNOP	85.7	51.1-141	%Rec	1	3/7/2022 5:19:28 PM	65937		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/5/2022 10:43:00 PM	65929		
Surr: BFB	102	70-130	%Rec	1	3/5/2022 10:43:00 PM	65929		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.024	mg/Kg	1	3/5/2022 10:43:00 PM	65929		
Toluene	ND	0.047	mg/Kg	1	3/5/2022 10:43:00 PM	65929		
Ethylbenzene	ND	0.047	mg/Kg	1	3/5/2022 10:43:00 PM	65929		
Xylenes, Total	ND	0.095	mg/Kg	1	3/5/2022 10:43:00 PM	65929		

84.8

70-130

%Rec

1

3/5/2022 10:43:00 PM

65929

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

**Qualifiers:** 

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

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Released to Imaging: 10/25/2022 11:46:29 AM

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT:	: EOG		Client Sample ID: TH-25/0						
Project:	Copelan Federal 1	Collection Date: 3/1/2022 2:01:00 PM							
Lab ID:	2203191-005	Matrix: SOIL	<b>Received Date:</b> 3/3/2022 8:10:00 AM						
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA ME	THOD 300.0: ANIONS					Analyst	MRA		
Chloride	9	230	60	mg/Kg	20	3/8/2022 6:57:50 PM	66024		
EPA ME	THOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	SB		
Diesel R	Range Organics (DRO)	ND	9.5	mg/Kg	1	3/7/2022 5:30:19 PM	65937		
Motor Oil Range Organics (MRO)		ND	48	mg/Kg	1	3/7/2022 5:30:19 PM	65937		
Surr:	DNOP	86.0	51.1-141	%Rec	1	3/7/2022 5:30:19 PM	65937		
EPA ME	THOD 8015D: GASOLINE RAN	IGE				Analyst	RAA		
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	3/5/2022 11:03:00 PM	65929		
Surr:	BFB	108	70-130	%Rec	1	3/5/2022 11:03:00 PM	65929		
EPA ME	THOD 8021B: VOLATILES					Analyst	RAA		
Benzene	e	ND	0.024	mg/Kg	1	3/5/2022 11:03:00 PM	65929		
Toluene	•	ND	0.049	mg/Kg	1	3/5/2022 11:03:00 PM	65929		
Ethylber	nzene	ND	0.049	mg/Kg	1	3/5/2022 11:03:00 PM	65929		
Xylenes	, Total	ND	0.097	mg/Kg	1	3/5/2022 11:03:00 PM	65929		
Surr:	4-Bromofluorobenzene	86.4	70-130	%Rec	1	3/5/2022 11:03:00 PM	65929		

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT: Project:	EOG Copelan Federal 1	Client Sample ID: TH-25/4 Collection Date: 3/1/2022 2:07:00 PM						
Lab ID:	2203191-006	Matrix: SOIL	8/2022 8:10:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	THOD 300.0: ANIONS					Analyst:	MRA	
Chloride		180	61	mg/Kg	20	3/8/2022 7:10:10 PM	66024	
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	SB	
Diesel R	ange Organics (DRO)	ND	9.2	mg/Kg	1	3/7/2022 5:41:08 PM	65937	
Motor Oil Range Organics (MRO)		ND	46	mg/Kg	1	3/7/2022 5:41:08 PM	65937	
Surr: I	DNOP	77.4	51.1-141	%Rec	1	3/7/2022 5:41:08 PM	65937	
EPA MET	THOD 8015D: GASOLINE RANGE	E				Analyst:	RAA	
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	3/5/2022 11:22:00 PM	65929	
Surr: I	BFB	102	70-130	%Rec	1	3/5/2022 11:22:00 PM	65929	
EPA MET	THOD 8021B: VOLATILES					Analyst:	RAA	
Benzene	9	ND	0.024	mg/Kg	1	3/5/2022 11:22:00 PM	65929	
Toluene		ND	0.049	mg/Kg	1	3/5/2022 11:22:00 PM	65929	
Ethylben	izene	ND	0.049	mg/Kg	1	3/5/2022 11:22:00 PM	65929	
Xylenes,	Total	ND	0.098	mg/Kg	1	3/5/2022 11:22:00 PM	65929	
Surr: 4	4-Bromofluorobenzene	86.1	70-130	%Rec	1	3/5/2022 11:22:00 PM	65929	

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

**Qualifiers:** 

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

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Surr: 4-Bromofluorobenzene

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT: EOG	Client Sample ID: TH-26/0 Collection Date: 3/1/2022 2:24:00 PM							
Project: Copelan Federal 1								
Lab ID: 2203191-007	Matrix: SOIL		3/2022 8:10:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	ND	60	mg/Kg	20	3/8/2022 7:22:31 PM	66024		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	SB		
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	3/7/2022 5:51:56 PM	65937		
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/7/2022 5:51:56 PM	65937		
Surr: DNOP	73.8	51.1-141	%Rec	1	3/7/2022 5:51:56 PM	65937		
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	RAA		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/5/2022 11:42:00 PM	65929		
Surr: BFB	104	70-130	%Rec	1	3/5/2022 11:42:00 PM	65929		
EPA METHOD 8021B: VOLATILES					Analyst	RAA		
Benzene	ND	0.025	mg/Kg	1	3/5/2022 11:42:00 PM	65929		
Toluene	ND	0.049	mg/Kg	1	3/5/2022 11:42:00 PM	65929		
Ethylbenzene	ND	0.049	mg/Kg	1	3/5/2022 11:42:00 PM	65929		
Xylenes, Total	ND	0.098	mg/Kg	1	3/5/2022 11:42:00 PM	65929		

87.3

70-130

%Rec

1

3/5/2022 11:42:00 PM 65929

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT:	EOG	Client Sample ID: TH-26/2							
Project:	Copelan Federal 1	<b>Collection Date:</b> 3/1/2022 2:28:00 PM							
Lab ID:	2203191-008	Matrix: SOIL		Received Date	e: 3/3	3/2022 8:10:00 AM			
Analyses	3	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA ME	THOD 300.0: ANIONS					Analyst	MRA		
Chloride		ND	60	mg/Kg	20	3/8/2022 7:34:52 PM	66024		
EPA ME	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB		
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	3/7/2022 6:02:43 PM	65937		
Motor Oil Range Organics (MRO)		ND	48	mg/Kg	1	3/7/2022 6:02:43 PM	65937		
Surr:	DNOP	84.3	51.1-141	%Rec	1	3/7/2022 6:02:43 PM	65937		
EPA ME	THOD 8015D: GASOLINE RANGE					Analyst	RAA		
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	3/6/2022 12:02:00 AM	65929		
Surr:	BFB	95.9	70-130	%Rec	1	3/6/2022 12:02:00 AM	65929		
EPA ME	THOD 8021B: VOLATILES					Analyst	RAA		
Benzene	9	ND	0.024	mg/Kg	1	3/6/2022 12:02:00 AM	65929		
Toluene		ND	0.048	mg/Kg	1	3/6/2022 12:02:00 AM	65929		
Ethylber	izene	ND	0.048	mg/Kg	1	3/6/2022 12:02:00 AM	65929		
Xylenes	, Total	ND	0.096	mg/Kg	1	3/6/2022 12:02:00 AM	65929		
Surr:	4-Bromofluorobenzene	83.7	70-130	%Rec	1	3/6/2022 12:02:00 AM	65929		

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

**Qualifiers:** 

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

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Released to Imaging: 10/25/2022 11:46:29 AM

Analytical Report
Lab Order 2203191

## Hall Environmental Analysis Laboratory, Inc.

Lab Order **2203191** Date Reported: **3/15/2022** 

CLIENT: EOG Project: Copelan Federal 1	Client Sample ID: TH-27/0 Collection Date: 3/1/2022 2:37:00 PM						
Lab ID: 2203191-009	Matrix: SOIL         Received Date: 3/3/2022 8:10:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	MRA	
Chloride	ND	60	mg/Kg	20	3/8/2022 8:11:53 PM	66024	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB	
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	3/7/2022 6:13:28 PM	65937	
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/7/2022 6:13:28 PM	65937	
Surr: DNOP	71.6	51.1-141	%Rec	1	3/7/2022 6:13:28 PM	65937	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/6/2022 12:22:00 AM	65929	
Surr: BFB	99.5	70-130	%Rec	1	3/6/2022 12:22:00 AM	65929	
EPA METHOD 8021B: VOLATILES					Analyst	RAA	
Benzene	ND	0.025	mg/Kg	1	3/6/2022 12:22:00 AM	65929	
Toluene	ND	0.049	mg/Kg	1	3/6/2022 12:22:00 AM	65929	
Ethylbenzene	ND	0.049	mg/Kg	1	3/6/2022 12:22:00 AM	65929	
Xylenes, Total	ND	0.099	mg/Kg	1	3/6/2022 12:22:00 AM	65929	
Surr: 4-Bromofluorobenzene	85.0	70-130	%Rec	1	3/6/2022 12:22:00 AM	65929	

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

Qualifiers:

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

Analytical Report
Lab Order 2203191

Hall	Environme	ental Ar	nalysis I	Laborator	y, Inc.

Date Reported: 3/15/2022
Client Sample ID: TH-27/2

**Project:** Copelan Federal 1 Collection Date: 3/1/2022 2:41:00 PM Lab ID: 2203191-010 Matrix: SOIL Received Date: 3/3/2022 8:10:00 AM Analyses Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 3/8/2022 8:24:14 PM 66024 mg/Kg 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB **Diesel Range Organics (DRO)** ND 3/7/2022 6:24:12 PM 9.8 mg/Kg 1 65937 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/7/2022 6:24:12 PM 65937 Surr: DNOP 73.4 51.1-141 %Rec 1 3/7/2022 6:24:12 PM 65937 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 4.7 mg/Kg 3/6/2022 12:41:00 AM 65929 1 Surr: BFB 99.6 3/6/2022 12:41:00 AM 70-130 %Rec 1 65929 **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.023 mg/Kg 3/6/2022 12:41:00 AM 65929 1 Toluene ND 0.047 mg/Kg 3/6/2022 12:41:00 AM 1 65929 Ethylbenzene ND 0.047 mg/Kg 3/6/2022 12:41:00 AM 1 65929 Xylenes, Total ND 0.093 mg/Kg 1 3/6/2022 12:41:00 AM 65929 Surr: 4-Bromofluorobenzene 84.6 70-130 %Rec 1 3/6/2022 12:41:00 AM 65929

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

**Qualifiers:** 

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

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT: EOG	Client Sample ID: TH-17/4							
Project: Copelan Federal 1		(	Collection Dat	<b>e:</b> 3/1	/2022 3:00:00 PM			
Lab ID: 2203191-011	Matrix: SOIL	Received Date: 3/3/2022 8:10:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: MRA		
Chloride	530	60	mg/Kg	20	3/8/2022 8:36:34 PM	66024		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: SB		
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/7/2022 6:34:55 PM	65937		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/7/2022 6:34:55 PM	65937		
Surr: DNOP	69.9	51.1-141	%Rec	1	3/7/2022 6:34:55 PM	65937		
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/4/2022 1:31:46 PM	65931		
Surr: BFB	112	70-130	%Rec	1	3/4/2022 1:31:46 PM	65931		
EPA METHOD 8021B: VOLATILES					Analys	t: NSB		
Benzene	ND	0.025	mg/Kg	1	3/4/2022 1:31:46 PM	65931		
Toluene	ND	0.050	mg/Kg	1	3/4/2022 1:31:46 PM	65931		
Ethylbenzene	ND	0.050	mg/Kg	1	3/4/2022 1:31:46 PM	65931		
Xylenes, Total	ND	0.10	mg/Kg	1	3/4/2022 1:31:46 PM	65931		
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	3/4/2022 1:31:46 PM	65931		

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT: EOG	Client Sample ID: TH-17/6								
Project: Copelan Federal 1		(	Collection Dat	<b>e:</b> 3/1	/2022 3:17:00 PM				
Lab ID: 2203191-012	Matrix: SOIL	3/2022 8:10:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: MRA			
Chloride	450	61	mg/Kg	20	3/8/2022 8:48:55 PM	66024			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: SB			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/7/2022 6:45:36 PM	65937			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/7/2022 6:45:36 PM	65937			
Surr: DNOP	71.7	51.1-141	%Rec	1	3/7/2022 6:45:36 PM	65937			
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/4/2022 3:52:56 PM	65931			
Surr: BFB	120	70-130	%Rec	1	3/4/2022 3:52:56 PM	65931			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.025	mg/Kg	1	3/4/2022 3:52:56 PM	65931			
Toluene	ND	0.050	mg/Kg	1	3/4/2022 3:52:56 PM	65931			
Ethylbenzene	ND	0.050	mg/Kg	1	3/4/2022 3:52:56 PM	65931			
Xylenes, Total	ND	0.10	mg/Kg	1	3/4/2022 3:52:56 PM	65931			
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	3/4/2022 3:52:56 PM	65931			

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT:	EOG		Cl	ient Sample II	D: TH	H-18/0	
Project:	Copelan Federal 1		(	Collection Dat	<b>e:</b> 3/1	1/2022 3:21:00 PM	
Lab ID:	2203191-013	Matrix: SOIL         Received Date: 3/3/2022 8:10:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
ΕΡΑ ΜΕΊ	THOD 300.0: ANIONS					Analyst	MRA
Chloride		ND	60	mg/Kg	20	3/8/2022 9:01:15 PM	66024
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)		ND	9.1	mg/Kg	1	3/7/2022 6:56:16 PM	65937
Motor Oil Range Organics (MRO)		ND	46	mg/Kg	1	3/7/2022 6:56:16 PM	65937
Surr: I	DNOP	71.1	51.1-141	%Rec	1	3/7/2022 6:56:16 PM	65937
EPA MET	THOD 8015D: GASOLINE RANGE	Ξ				Analyst	NSB
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	3/4/2022 5:04:17 PM	65931
Surr: I	BFB	117	70-130	%Rec	1	3/4/2022 5:04:17 PM	65931
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.025	mg/Kg	1	3/4/2022 5:04:17 PM	65931
Toluene		ND	0.049	mg/Kg	1	3/4/2022 5:04:17 PM	65931
Ethylben	izene	ND	0.049	mg/Kg	1	3/4/2022 5:04:17 PM	65931
Xylenes,	Total	ND	0.098	mg/Kg	1	3/4/2022 5:04:17 PM	65931
Surr: 4	4-Bromofluorobenzene	108	70-130	%Rec	1	3/4/2022 5:04:17 PM	65931

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT: EOG	Client Sample ID: TH-18/4							
Project: Copelan Federal 1		(	Collection Dat	<b>e:</b> 3/1	/2022 3:34:00 PM			
Lab ID: 2203191-014	Matrix: SOILReceived Date: 3/3/2022 8:10:00 AM							
Analyses	Result RL Qual Units				DF Date Analyzed			
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	140	60	mg/Kg	20	3/8/2022 9:13:36 PM	66024		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/7/2022 7:06:56 PM	65937		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/7/2022 7:06:56 PM	65937		
Surr: DNOP	91.6	51.1-141	%Rec	1	3/7/2022 7:06:56 PM	65937		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/4/2022 5:28:31 PM	65931		
Surr: BFB	117	70-130	%Rec	1	3/4/2022 5:28:31 PM	65931		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.025	mg/Kg	1	3/4/2022 5:28:31 PM	65931		
Toluene	ND	0.049	mg/Kg	1	3/4/2022 5:28:31 PM	65931		
Ethylbenzene	ND	0.049	mg/Kg	1	3/4/2022 5:28:31 PM	65931		
Xylenes, Total	ND	0.098	mg/Kg	1	3/4/2022 5:28:31 PM	65931		
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	3/4/2022 5:28:31 PM	65931		

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

**Qualifiers:** 

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

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### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203191 Date Reported: 3/15/2022

CLIENT:	EOG	Client Sample ID: TH-19/0							
Project:	Copelan Federal 1		(	Collection Date	e: 3/1	/2022 3:47:00 PM			
Lab ID:	2203191-015	Matrix: SOIL	3/2022 8:10:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA MET	THOD 300.0: ANIONS					Analyst	MRA		
Chloride		ND	60	mg/Kg	20	3/8/2022 9:25:57 PM	66024		
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB		
Diesel Range Organics (DRO)		ND	9.8	mg/Kg	1	3/7/2022 7:17:34 PM	65937		
Motor Oil Range Organics (MRO)		ND	49	mg/Kg	1	3/7/2022 7:17:34 PM	65937		
Surr: I	DNOP	67.5	51.1-141	%Rec	1	3/7/2022 7:17:34 PM	65937		
EPA ME	THOD 8015D: GASOLINE RANG	Ξ				Analyst	NSB		
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	3/4/2022 5:52:44 PM	65931		
Surr: I	BFB	122	70-130	%Rec	1	3/4/2022 5:52:44 PM	65931		
EPA MET	THOD 8021B: VOLATILES					Analyst	NSB		
Benzene		ND	0.025	mg/Kg	1	3/4/2022 5:52:44 PM	65931		
Toluene		ND	0.049	mg/Kg	1	3/4/2022 5:52:44 PM	65931		
Ethylben	izene	ND	0.049	mg/Kg	1	3/4/2022 5:52:44 PM	65931		
Xylenes,	Total	ND	0.098	mg/Kg	1	3/4/2022 5:52:44 PM	65931		
Surr: 4	4-Bromofluorobenzene	111	70-130	%Rec	1	3/4/2022 5:52:44 PM	65931		

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

**Qualifiers:** 

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

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**CLIENT: EOG** 

Analytical Report
Lab Order 2203191

Hall	Envir	onment	al A	nalys	is La	borat	ory,	Inc.

Date Reported: 3/15/2022 Client Sample ID: TH-19/2

Project:	Copelan Federal 1	Collection Date: 3/1/2022 3:51:00 PM								
Lab ID:	2203191-016	Matrix: SOIL	Received Date: 3/3/2022 8:10:00 AM							
Analyses		Result	RL	Qual Units	DF Date Analyzed		Batch			
EPA MET	THOD 300.0: ANIONS					Analys	t: MRA			
Chloride		600	60	mg/Kg	20	3/8/2022 9:38:17 PM	66024			
EPA ME	THOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	t: SB			
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	3/7/2022 7:28:12 PM	65937			
Motor Oi	l Range Organics (MRO)	ND	48	mg/Kg	1	3/7/2022 7:28:12 PM	65937			
Surr: I	DNOP	71.5	51.1-141	%Rec	1	3/7/2022 7:28:12 PM	65937			
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analys	t: NSB			
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	3/4/2022 6:16:54 PM	65931			
Surr: I	BFB	119	70-130	%Rec	1	3/4/2022 6:16:54 PM	65931			
EPA ME	THOD 8021B: VOLATILES					Analys	t: NSB			
Benzene	)	ND	0.024	mg/Kg	1	3/4/2022 6:16:54 PM	65931			
Toluene		ND	0.048	mg/Kg	1	3/4/2022 6:16:54 PM	65931			
Ethylben	izene	ND	0.048	mg/Kg	1	3/4/2022 6:16:54 PM	65931			
Xylenes,	Total	ND	0.097	mg/Kg	1	3/4/2022 6:16:54 PM	65931			
Surr: 4	4-Bromofluorobenzene	109	70-130	%Rec	1	3/4/2022 6:16:54 PM	65931			

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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 16 of 20

## **QC SUMMARY REPORT** Hall ] .

L.		WO#:	2203191
Hall Env	ironmental Analysis Laboratory, Inc.		15-Mar-22
Client:	EOG		
Project:	Copelan Federal 1		

Sample ID: MB-66014	SampType: mblk	TestCode: EPA Method	300.0: Anions				
Client ID: PBS	Batch ID: 66014	RunNo: 86321					
Prep Date: 3/8/2022	Analysis Date: 3/8/2022	SeqNo: 3044969	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride	ND 1.5						
Sample ID: LCS-66014	SampType: Ics	TestCode: EPA Method	300.0: Anions				
Client ID: LCSS	Batch ID: 66014	RunNo: 86321					
Prep Date: 3/8/2022	Analysis Date: 3/8/2022	SeqNo: 3044970	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 91.0 90	110				
Sample ID: MB-66024	SampType: mblk TestCode: EPA Method 300.0: Anions						
Cample 1D. WD-00024	Sampiype: mbik	TestCode: EPA Method	300.0: Anions				
Client ID: PBS	Batch ID: 66024	TestCode: EPA Method RunNo: 86321	300.0: Anions				
	1 21		300.0: Anions Units: mg/Kg				
Client ID: PBS	Batch ID: 66024 Analysis Date: 3/8/2022	RunNo: 86321	Units: <b>mg/Kg</b>	RPDLimit Qual			
Client ID: <b>PBS</b> Prep Date: <b>3/8/2022</b>	Batch ID: 66024 Analysis Date: 3/8/2022	RunNo: <b>86321</b> SeqNo: <b>3045007</b>	Units: <b>mg/Kg</b>	RPDLimit Qual			
Client ID: <b>PBS</b> Prep Date: <b>3/8/2022</b> Analyte	Batch ID: <b>66024</b> Analysis Date: <b>3/8/2022</b> Result PQL SPK value	RunNo: <b>86321</b> SeqNo: <b>3045007</b>	Units: <b>mg/Kg</b> HighLimit %RPD	RPDLimit Qual			
Client ID: <b>PBS</b> Prep Date: <b>3/8/2022</b> Analyte Chloride	Batch ID: 66024 Analysis Date: 3/8/2022 Result PQL SPK value ND 1.5	RunNo: <b>86321</b> SeqNo: <b>3045007</b> SPK Ref Val %REC LowLimit	Units: <b>mg/Kg</b> HighLimit %RPD	RPDLimit Qual			
Client ID: <b>PBS</b> Prep Date: <b>3/8/2022</b> Analyte Chloride Sample ID: <b>LCS-66024</b>	Batch ID: 66024 Analysis Date: 3/8/2022 Result PQL SPK value ND 1.5 SampType: Ics	RunNo: <b>86321</b> SeqNo: <b>3045007</b> SPK Ref Val %REC LowLimit TestCode: <b>EPA Method</b>	Units: <b>mg/Kg</b> HighLimit %RPD	RPDLimit Qual			
Client ID: PBS Prep Date: 3/8/2022 Analyte Chloride Sample ID: LCS-66024 Client ID: LCSS	Batch ID: 66024 Analysis Date: 3/8/2022 Result PQL SPK value ND 1.5 SampType: Ics Batch ID: 66024 Analysis Date: 3/8/2022	RunNo: <b>86321</b> SeqNo: <b>3045007</b> SPK Ref Val %REC LowLimit TestCode: <b>EPA Method</b> RunNo: <b>86321</b>	Units: mg/Kg HighLimit %RPD 300.0: Anions	RPDLimit Qual			

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

В Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 17 of 20

.

	OG opelan Federal 1										
Sample ID: LCS-6593	7 Samp	Гуре: <b>LC</b>	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batc	h ID: 65	937	RunNo: 86279							
Prep Date: 3/3/2022	Analysis I	Date: 3/	7/2022	SeqNo: 3043463			Units: mg/K				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DR	0) 48	10	50.00	0	95.1	68.9	135				
Surr: DNOP	4.0		5.000		80.0	51.1	141				
Sample ID: MB-65937	samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics		
Client ID: PBS	Batc	h ID: 65	937	F	unNo: 80	6279					
Prep Date: 3/3/2022	Analysis I	Date: 3/	7/2022	S	SeqNo: 30	043467	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DR	0) ND	10									
Motor Oil Range Organics (I	MRO) ND	50									
Surr: DNOP	8.6		10.00		85.6	51.1	141				

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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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2203191

15-Mar-22

WO#:

WO#:	2203191
	15-Mar-22

Client: EOG										
Project: Cope	lan Federal 1									
Sample ID: mb-65931	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	n ID: 659	931	F	RunNo: 86268					
Prep Date: 3/3/2022	Analysis D	ate: 3/	4/2022	SeqNo: 3041330			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO		5.0	or revalue	or rential var	,011E0	LowLink	i iigii Liitiit	, or a D		Quui
Surr: BFB	1100		1000		115	70	130			
Sample ID: Ics-65931	mple ID: Ics-65931 SampType: LCS TestCode: EPA Method 8015D: Gasoli									
Client ID: LCSS	Batch	n ID: 659	931	RunNo: 86268						
Prep Date: 3/3/2022	Analysis D	ate: 3/	4/2022	SeqNo: 3041331 Units: mg/Kg				٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1300		1000		129	70	130			
Sample ID: Ics-65929	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: 659	929	F	RunNo: <b>86</b>	6257				
Prep Date: 3/3/2022	Analysis D	ate: 3/	5/2022	S	SeqNo: 30	041862	Units: mg/K	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO	29	5.0	25.00	0	116	78.6	131			
Surr: BFB	1100		1000		112	70	130			
Sample ID: mb-65929	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	n ID: 659	929	F	RunNo: <b>86</b>	6257				
Prep Date: 3/3/2022	Analysis D	)ate: 3/	5/2022	S	SeqNo: 30	041863	Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO		5.0								
Surr: BFB	1000		1000		102	70	130			

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

в Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 19 of 20

WO#:	2203191
	15-Mar-22

Client: EOG Project: Copelan l	Federal 1									
Sample ID: mb-65931	SampT	Гуре: <b>МЕ</b>	LK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: 659	931	F	RunNo: <b>86</b>	6268				
Prep Date: 3/3/2022	Analysis E	Date: 3/	4/2022	S	SeqNo: <b>3(</b>	041445	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			
Sample ID: LCS-65931	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: 659	931	F	RunNo: <b>86</b>	6268				
Prep Date: 3/3/2022	Analysis D	Date: 3/4	4/2022	S	SeqNo: 30	041446	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	80	120			
Toluene	0.95	0.050	1.000	0	94.6	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			
Sample ID: Ics-65929	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batcl	h ID: 659	929	F	RunNo: <b>86</b>	6257				
Prep Date: 3/3/2022	Analysis E	Date: 3/	5/2022	5	SeqNo: <b>3(</b>	041916	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	80	120			
Toluene	0.93	0.050	1.000	0	93.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			
Sample ID: mb-65929	SampT	Гуре: <b>МЕ</b>	LK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: 659	929	F	RunNo: <b>86</b>	6257				
Prep Date: 3/3/2022	Analysis D	Date: <b>3/</b>	5/2022	S	SeqNo: <b>3(</b>	041917	Units: mg/K	g		
						L	lliah limit	0/ חחח	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	REDLIIIII	Quai
Analyte Benzene	Result ND	PQL 0.025	SPK value	SPK Ref Val	%REC	LOWLIMIT	HighLimit	%RPD	KFDLIIIII	Quai
,			SPK value	SPK Ref Val	%REC	LOWLIMIT	HighLimit	%RPD	RPDLIIIII	Quai
Benzene	ND	0.025	SPK value	SPK Ref Val	%REC	LOWLIMIT	HIGHLIMIL	%RPD	KFDLIIIII	Quai
Benzene Toluene	ND ND	0.025 0.050	SPK value	SPK Ref Val	%REC	LOWLIMIT	HighLimit	%RPD	KFDLIIIII	Quai

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level. D

в

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded

Н ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

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

RL Reporting Limit Page 20 of 20

Analyte detected in the associated Method Blank

ANA	RONMENT LYSIS DRATORY	TAL	T	all Environmen 	49 Albuquer 975 FAX	01 Haw que, NA : 505-34	kins NE 187109 15-4107	Sai	mple Log-In Check	List
Client Name:	EOG		Wor	k Order Num	ber: 220	3191	-		RcptNo: 1	
Received By:	Sean Liv	ingston	3/3/20	22 8:10:00 A	м		5		not	
Completed By:	Tracy Ca	sarrubias	3/3/20	22 8:33:45 AI	м		0		100	
Reviewed By:	Cu	<u> </u>	3/3/2	2-2						
Chain of Cu	<u>stody</u>									
1. Is Chain of (	Custody com	olete?			Yes		No		Not Present	
2. How was the	e sample deli	vered?			Cou	irier				
Log In										
3. Was an atte	mpt made to	cool the sam	ples?		Yes		No			
4. Were all sam	ples received	d at a tempera	ature of >0° C	to 6.0°C	Yes		No			
5. Sample(s) in	proper conta	iner(s)?			Yes		No			
6. Sufficient sar	nple volume	for indicated t	est(s)?		Yes		No			
7. Are samples	(except VOA	and ONG) pr	operly preserv	ed?	Yes		No			
8. Was preserva	ative added to	bottles?			Yes		No		NA 🗌	
9. Received at l	east 1 vial wit	th headspace	<1/4" for AQ \	/OA?	Yes		No		NA 🗹	
10. Were any sa					Yes					
									# of preserved bottles checked	/
11. Does paperw					Yes		No		for pH:	
(Note discrep 12. Are matrices									(<2 or >12 unless Adjusted?	noted)
13. Is it clear what					Yes Yes		No		Adjusted	
14. Were all hold			10		Yes		No No		Checked by: JR 31	2122
(If no, notify c					Tes		NO		checked by. Ji - u j	5100
Special Hand	ling (if app	olicable)						./		
15. Was client no	otified of all d	iscrepancies	with this order?	?	Yes		No		NA 🔽	
Person	Notified:			Date:				_		
By Who	om:			Via:	eMa	ail 🗌	Phone	Fax	In Person	
Regard	ing:									
	nstructions:									
16. Additional re										
17. <u>Cooler Infor</u> Cooler No		0	<b>a</b>	1 2 Course II						
1 Cooler No	Temp °C 1.4	Condition Good	Seal Intact	Seal No	Seal Da	ate	Signed	Ву		
2	1.4	Good	Yes							

Page 1 of 1

Chain	1-of-C	Chain-of-Custody Record	Turn-Around Time:	ime:			
Client: EOG-Artesia / Ranger Env.	rtesia / Ra	anger Env.	□ Standard	Rus	KRush 5-der 744		HALL ENVIRONMENTAL
			Project Name:				VINE 1313 FADORALORI
Mailing Address	: EOG - 10	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Copel	du ft	Copelan Federal #2	4901 H	www.nalienvironmental.com 4901 Hawkins NF - Alburuiarcuia NM 87100
Ranger: PO Boy	201179, 4	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375			Tel. 50	Tel. 505-345-3975 Fax 505-345-4107
Phone #: 521-:	521-335-1785						Anal
email or Fax#: Will@RangerEnv.com	Will@Rar	ngerEnv.com	Project Manager: W. Kierdorf	er: W. Kier	dorf		
QA/QC Package:						(о <b>ч</b>	
Standard		Level 4 (Full Validation)				W / Q	
Accreditation:		□ Az Compliance				_	
	-1			日 子 Sev 日	ON 🗆	-	
EDD (Type)	Excel		# of Coolers:	2		ЯÐ	
			Cooler Temp(including CF):	Iuding CF): (	いたのこいのい	)DS	
Date Time	Matrix	Sample Name	Container P Type and # T	Preservative Type	1.2 ±0-1.20 HEAL NO.	8) XJT8 108:H91 9binold2	
YU/22 Der	Sx.	エH-6/11	IX yozza	ICE	001	X	
1 1235	-	TH-6/14	1	1	200	161	
1537	_	TH-24/6			003		
1345		+1+-24/4			M		
19/1	_	TH-25/10			<b>bos</b>		
F041		1-1-25/2			000		
1424	-	ry-36 12			500		
Schi	_	443612			008		
弦	_	14年1			000		
1441	_	6/20-41			010		
1500	-	日-19/4			110		
1	1	+4-1716		J	210	100	
	Relinquished by:	ed by:		Via: 🗸	Date Time	Remarks: Bill	Remarks: Bill to EOG Artesia
R	2	hand	R	an	2		
Date Time:	Relinquished by:	ed by:			Date Time		
Mar Mas	alum	www	Se co	COURT	3/3/22 5:10		
If necessar	y, samples sub	mitted to Hall Environmental may be subc	ontracted to other accri	edited laborator	ies. This serves as notice of th	is possibility. Any su	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

Received by OCD: 6/16/2022 12:51:54 PM

Clienf: EOG-Artesia / Ranger Env.	□ Standard Brush 5-Acm 74	
	Project Name:	ANALYSIS LABORATORY
Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	Copelan Feder 1#1	www.hallenvironmental.com
Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	Tel FOE 21E 207E Fait For 21F 207E
		Analysis Remined
email or Fax#: Will@RangerEnv.com	Project Manager: W. Kierdorf	
		(02
Level 4 (Full Validation)		
□ Az Compliance	Sampler: W. Crecuely	
	lers.	
	i.	9)Q
Matrix Sample Name	Container Preservative (、てユロスルマン Type and # Type	I SI) XJT PI08:Hc hloride
TH-18/5		IT 2
24-18/4		-
74-110		
TH-19/2	L 016	
1		
Relinquished by:	Received by: Via: Date Time	Remarks: Bill to EOG Artesia
by:	by: Via: Date	
	215 Course 513/27 8:10	213/22 (convert 3/3/22 8:10)



March 16, 2022 Will Kierdorf EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2203352

RE: Copelen Federal 1

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/4/2022 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 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203352

Date Reported: 3/16/2022

CLIENT: EOG	Client Sample ID: TH-23/4						
<b>Project:</b> Copelen Federal 1		(	Collectio	on Dat	<b>e:</b> 3/2	2/2022	
Lab ID: 2203352-001	Matrix: SOIL		Receive	ed Dat	<b>e:</b> 3/4	/2022 8:00:00 AM	
Analyses	Result	RL	Qual U	U <b>nits</b>	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	770	60	ı	mg/Kg	20	3/10/2022 11:54:39 PM	66099
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	SB
Diesel Range Organics (DRO)	ND	9.8	ı	mg/Kg	1	3/9/2022 7:38:20 AM	65995
Motor Oil Range Organics (MRO)	ND	49	I	mg/Kg	1	3/9/2022 7:38:20 AM	65995
Surr: DNOP	76.5	51.1-141	0	%Rec	1	3/9/2022 7:38:20 AM	65995
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	5.0	ı	mg/Kg	1	3/9/2022 4:29:00 PM	65989
Surr: BFB	107	70-130	0	%Rec	1	3/9/2022 4:29:00 PM	65989
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.025	ı	mg/Kg	1	3/9/2022 4:29:00 PM	65989
Toluene	ND	0.050	I	mg/Kg	1	3/9/2022 4:29:00 PM	65989
Ethylbenzene	ND	0.050	I	mg/Kg	1	3/9/2022 4:29:00 PM	65989
Xylenes, Total	ND	0.10	I	mg/Kg	1	3/9/2022 4:29:00 PM	65989
Surr: 4-Bromofluorobenzene	88.5	70-130	0	%Rec	1	3/9/2022 4:29:00 PM	65989

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

**Qualifiers:** 

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

Page 1 of 15

Project: Copelen Federal 1

**CLIENT: EOG** 

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203352 Date Reported: 3/16/2022

 Bute Reported: 5/10/2022
Client Sample ID: TH-23/2
Collection Date: 3/2/2022
<b>D</b> = ===== <b>J D</b> = <b>4</b> == 2 /4 /2022 0.00.00 AM

Lab ID: 2203352-002	Matrix: SOIL		<b>Received Dat</b>	<b>:</b> 3/2	4/2022 8:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	780	60	mg/Kg	20	3/11/2022 12:07:04 AM	66099
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/9/2022 7:48:51 AM	65995
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/9/2022 7:48:51 AM	65995
Surr: DNOP	69.9	51.1-141	%Rec	1	3/9/2022 7:48:51 AM	65995
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/9/2022 4:49:00 PM	65989
Surr: BFB	115	70-130	%Rec	1	3/9/2022 4:49:00 PM	65989
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	3/9/2022 4:49:00 PM	65989
Toluene	ND	0.050	mg/Kg	1	3/9/2022 4:49:00 PM	65989
Ethylbenzene	ND	0.050	mg/Kg	1	3/9/2022 4:49:00 PM	65989
Xylenes, Total	ND	0.099	mg/Kg	1	3/9/2022 4:49:00 PM	65989
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	3/9/2022 4:49:00 PM	65989

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

**Qualifiers:** 

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203352 Date Reported: 3/16/2022

3/9/2022 5:09:00 PM

65989

65989

65989

65989

65989

CLIENT:	EOG		C	ient Sample II	D: TH	I-28	
Project:	Copelen Federal 1		(	Collection Dat	e: 3/2	2/2022 1:51:00 PM	
Lab ID:	2203352-003	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 3/4	/2022 8:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	CAS
Chloride		ND	60	mg/Kg	20	3/11/2022 12:19:29 AM	66099
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	SB
Diesel Ra	ange Organics (DRO)	9.7	9.2	mg/Kg	1	3/9/2022 7:59:22 AM	65995
Motor Oil	Range Organics (MRO)	58	46	mg/Kg	1	3/9/2022 7:59:22 AM	65995
Surr: E	DNOP	97.8	51.1-141	%Rec	1	3/9/2022 7:59:22 AM	65995
EPA MET	HOD 8015D: GASOLINE R	ANGE				Analyst	RAA
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	3/9/2022 5:09:00 PM	65989
Surr: E	BFB	113	70-130	%Rec	1	3/9/2022 5:09:00 PM	65989
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA

ND

ND

ND

ND

91.6

0.025

0.049

0.049

0.099

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

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

**Qualifiers:** 

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

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## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203352

Date Reported: 3/16/2022

CLIENT: EOG	Client Sample ID: TH-29						
Project: Copelen Federal 1		(	Collection Dat	<b>e:</b> 3/2	2/2022 1:53:00 PM		
Lab ID: 2203352-004	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 3/4	4/2022 8:00:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst:	CAS	
Chloride	72	60	mg/Kg	20	3/11/2022 12:31:54 AM	66099	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	том	
Diesel Range Organics (DRO)	120	9.6	mg/Kg	1	3/9/2022 5:34:08 PM	65995	
Motor Oil Range Organics (MRO)	280	48	mg/Kg	1	3/9/2022 5:34:08 PM	65995	
Surr: DNOP	105	51.1-141	%Rec	1	3/9/2022 5:34:08 PM	65995	
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/9/2022 5:30:00 PM	65989	
Surr: BFB	106	70-130	%Rec	1	3/9/2022 5:30:00 PM	65989	
EPA METHOD 8021B: VOLATILES					Analyst:	RAA	
Benzene	ND	0.024	mg/Kg	1	3/9/2022 5:30:00 PM	65989	
Toluene	ND	0.048	mg/Kg	1	3/9/2022 5:30:00 PM	65989	
Ethylbenzene	ND	0.048	mg/Kg	1	3/9/2022 5:30:00 PM	65989	
Xylenes, Total	ND	0.097	mg/Kg	1	3/9/2022 5:30:00 PM	65989	
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	3/9/2022 5:30:00 PM	65989	

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

**Qualifiers:** 

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference s
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall	Environm	ental An	alysis l	Laborato	ry, Inc.
					.,,,

Lab Order 2203352

Date Reported: 3/16/2022

CLIENT:		Client Sample ID: TH-7/7						
Project:	Copelen Federal 1	Collection Date: 3/2/2022 2:22:00 PM           Matrix: SOIL         Received Date: 3/4/2022 8:00:00 AM						
Lab ID:	2203352-005	Matrix: SOIL		Received Dat	<b>e:</b> 3/4	/2022 8:00:00 AM		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
ΕΡΑ ΜΕΊ	THOD 300.0: ANIONS					Analyst	: LRN	
Chloride		2800	150	mg/Kg	50	3/11/2022 2:13:48 PM	66100	
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB	
Diesel R	ange Organics (DRO)	ND	9.1	mg/Kg	1	3/9/2022 8:20:29 AM	65995	
Motor Oi	l Range Organics (MRO)	ND	45	mg/Kg	1	3/9/2022 8:20:29 AM	65995	
Surr: I	DNOP	70.5	51.1-141	%Rec	1	3/9/2022 8:20:29 AM	65995	
EPA MET	THOD 8015D: GASOLINE RANGE	Ξ				Analyst	RAA	
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	3/9/2022 5:50:00 PM	65989	
Surr: I	BFB	110	70-130	%Rec	1	3/9/2022 5:50:00 PM	65989	
EPA MET	THOD 8021B: VOLATILES					Analyst	RAA	
Benzene	)	ND	0.025	mg/Kg	1	3/9/2022 5:50:00 PM	65989	
Toluene		ND	0.050	mg/Kg	1	3/9/2022 5:50:00 PM	65989	
Ethylben	izene	ND	0.050	mg/Kg	1	3/9/2022 5:50:00 PM	65989	
Xylenes,	Total	ND	0.10	mg/Kg	1	3/9/2022 5:50:00 PM	65989	
Surr: 4	4-Bromofluorobenzene	94.1	70-130	%Rec	1	3/9/2022 5:50:00 PM	65989	

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

**Qualifiers:** 

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

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**CLIENT: EOG** 

**Project:** Lab ID:

Analyses

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203352 Date Reported: 3/16/2022

5	Result	RL Qual Units DF Date Analyzed	Batch
2203352-006	Matrix: SOIL	<b>Received Date:</b> 3/4/2022 8:00:00 AM	
Copelen Federal 1		Collection Date: 3/2/2022 2:35:00 PM	
EOG		Client Sample ID: TH-7/10	

EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	760	60	mg/Kg	20	3/11/2022 1:32:53 AM	66100
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/9/2022 8:31:03 AM	65995
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/9/2022 8:31:03 AM	65995
Surr: DNOP	70.3	51.1-141	%Rec	1	3/9/2022 8:31:03 AM	65995
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/9/2022 6:10:00 PM	65989
Surr: BFB	105	70-130	%Rec	1	3/9/2022 6:10:00 PM	65989
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	3/9/2022 6:10:00 PM	65989
Toluene	ND	0.050	mg/Kg	1	3/9/2022 6:10:00 PM	65989
Ethylbenzene	ND	0.050	mg/Kg	1	3/9/2022 6:10:00 PM	65989
Xylenes, Total	ND	0.099	mg/Kg	1	3/9/2022 6:10:00 PM	65989
Surr: 4-Bromofluorobenzene	90.2	70-130	%Rec	1	3/9/2022 6:10:00 PM	65989

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

**Qualifiers:** 

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

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2203352-007

**CLIENT: EOG** 

**Project:** 

Lab ID:

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2203352 Date Reported: 3/16/2022

	Client Sample ID: TH-20/0	
	Collection Date: 3/2/2022 2:50:00 PM	
Matrix: SOIL	<b>Received Date:</b> 3/4/2022 8:00:00 AM	

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	ND	60	mg/Kg	20	3/11/2022 1:45:17 AM	66100
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: SB
Diesel Range Organics (DRO)	10	9.3	mg/Kg	1	3/9/2022 8:41:53 AM	65995
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/9/2022 8:41:53 AM	65995
Surr: DNOP	68.9	51.1-141	%Rec	1	3/9/2022 8:41:53 AM	65995
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/9/2022 6:30:00 PM	65989
Surr: BFB	111	70-130	%Rec	1	3/9/2022 6:30:00 PM	65989
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	3/9/2022 6:30:00 PM	65989
Toluene	ND	0.050	mg/Kg	1	3/9/2022 6:30:00 PM	65989
Ethylbenzene	ND	0.050	mg/Kg	1	3/9/2022 6:30:00 PM	65989
Xylenes, Total	ND	0.10	mg/Kg	1	3/9/2022 6:30:00 PM	65989
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	3/9/2022 6:30:00 PM	65989

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

**Qualifiers:** 

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

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2203352-008

**CLIENT: EOG** 

**Project:** 

Lab ID:

Analyses

**Analytical Report** 

Hall	Enviro	onmental	Analysi	s Labor	atory, ]	Inc.
			•			

Lab Order 2203352 Date Reported: 3/16/2022

	Client Sample ID: TH-20/4	
	Collection Date: 3/2/2022 3:00:00 PM	
Matrix: SOIL	<b>Received Date:</b> 3/4/2022 8:00:00 AM	
Result	RL Qual Units DF Date Analyzed	Batch

	ę			ĩ	
	04		00	Analyst	
ND	61	mg/Kg	20	3/11/2022 1:57:41 AM	66100
ANICS				Analyst	SB
ND	9.5	mg/Kg	1	3/9/2022 8:52:28 AM	65995
ND	48	mg/Kg	1	3/9/2022 8:52:28 AM	65995
82.5	51.1-141	%Rec	1	3/9/2022 8:52:28 AM	65995
				Analyst	RAA
ND	4.9	mg/Kg	1	3/9/2022 6:50:00 PM	65989
105	70-130	%Rec	1	3/9/2022 6:50:00 PM	65989
				Analyst	RAA
ND	0.025	mg/Kg	1	3/9/2022 6:50:00 PM	65989
ND	0.049	mg/Kg	1	3/9/2022 6:50:00 PM	65989
ND	0.049	mg/Kg	1	3/9/2022 6:50:00 PM	65989
ND	0.099	mg/Kg	1	3/9/2022 6:50:00 PM	65989
88.9	70-130	%Rec	1	3/9/2022 6:50:00 PM	65989
	ND 82.5 ND 105 ND ND ND ND	ANICS ND 9.5 ND 48 82.5 51.1-141 ND 4.9 105 70-130 ND 0.025 ND 0.049 ND 0.049 ND 0.049 ND 0.099	ANICS ND 9.5 mg/Kg ND 48 mg/Kg 82.5 51.1-141 %Rec ND 4.9 mg/Kg 105 70-130 %Rec ND 0.025 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.099 mg/Kg	ANICS ND 9.5 mg/Kg 1 ND 48 mg/Kg 1 82.5 51.1-141 %Rec 1 ND 4.9 mg/Kg 1 105 70-130 %Rec 1 ND 0.025 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.099 mg/Kg 1	ND         61         mg/Kg         20         3/11/2022 1:57:41 AM           ANICS         Analyst           ND         9.5         mg/Kg         1         3/9/2022 8:52:28 AM           ND         48         mg/Kg         1         3/9/2022 8:52:28 AM           82.5         51.1-141         %Rec         1         3/9/2022 8:52:28 AM           MD         48         mg/Kg         1         3/9/2022 8:52:28 AM           82.5         51.1-141         %Rec         1         3/9/2022 8:52:28 AM           ND         4.9         mg/Kg         1         3/9/2022 6:50:00 PM           ND         70-130         %Rec         1         3/9/2022 6:50:00 PM           105         70-130         %Rec         1         3/9/2022 6:50:00 PM           ND         0.025         mg/Kg         1         3/9/2022 6:50:00 PM           ND         0.049         mg/Kg         1         3/9/2022 6:50:00 PM           ND         0.049         mg/Kg         1         3/9/2022 6:50:00 PM           ND         0.049         mg/Kg         1         3/9/2022 6:50:00 PM           ND         0.099         mg/Kg         1         3/9/2022 6:50:00 PM

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

**Qualifiers:** 

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

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2203352-009

**CLIENT: EOG** 

**Project:** 

Lab ID:

**Analytical Report** 

Hall	Environ	nental	Analysis	Laborat	tory, l	lnc.

Lab Order 2203352 Date Reported: 3/16/2022

	Client Sample ID: TH-21/1
	Collection Date: 3/2/2022 3:20:00 PM
Matrix: SOIL	Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	3/11/2022 2:10:05 AM	66100
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/10/2022 12:21:32 AM	66028
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/10/2022 12:21:32 AM	66028
Surr: DNOP	73.1	51.1-141	%Rec	1	3/10/2022 12:21:32 AM	66028
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/9/2022 9:10:00 PM	65994
Surr: BFB	105	70-130	%Rec	1	3/9/2022 9:10:00 PM	65994
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	3/9/2022 9:10:00 PM	65994
Toluene	ND	0.049	mg/Kg	1	3/9/2022 9:10:00 PM	65994
Ethylbenzene	ND	0.049	mg/Kg	1	3/9/2022 9:10:00 PM	65994
Xylenes, Total	ND	0.098	mg/Kg	1	3/9/2022 9:10:00 PM	65994
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	3/9/2022 9:10:00 PM	65994

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

**Qualifiers:** 

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

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2203352-010

**CLIENT: EOG** Project:

Lab ID:

**Analytical Report** 

Hall Environmental	Analysis	Laboratory,	Inc.

Lab Order 2203352 Date Reported: 3/16/2022

Client Sample ID: TH-22/0
Collection Date: 3/2/2022 3:25:00 PM
Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/11/2022 2:22:30 AM	66100
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/10/2022 12:32:28 AM	66028
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/10/2022 12:32:28 AM	66028
Surr: DNOP	67.1	51.1-141	%Rec	1	3/10/2022 12:32:28 AM	66028
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/9/2022 10:10:00 PM	65994
Surr: BFB	104	70-130	%Rec	1	3/9/2022 10:10:00 PM	65994
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	3/9/2022 10:10:00 PM	65994
Toluene	ND	0.050	mg/Kg	1	3/9/2022 10:10:00 PM	65994
Ethylbenzene	ND	0.050	mg/Kg	1	3/9/2022 10:10:00 PM	65994
Xylenes, Total	ND	0.10	mg/Kg	1	3/9/2022 10:10:00 PM	65994
Surr: 4-Bromofluorobenzene	85.3	70-130	%Rec	1	3/9/2022 10:10:00 PM	65994

Matrix: SOIL

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

**Qualifiers:** 

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

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	WO#:	2203352	
boratory, Inc.		16-Mar-22	

Client:	EOG										
Project:	Copelen	Federal 1									
Sample ID:	MB-66100	SampTy	pe: <b>mb</b>	olk	Tes	tCode: El	PA Method	300.0: Anions	;		
Client ID:	PBS	Batch I	ID: 661	100	F	RunNo: <b>8</b>	6387				
Prep Date:	3/10/2022	Analysis Da	te: <b>3/</b> '	10/2022	S	SeqNo: 3	047846	Units: mg/Kg	9		
Analyte Chloride		Result ND	PQL 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
					<b></b>						
	LCS-66100	SampTy						300.0: Anions	5		
Client ID:		Batch I	ID: 661	100	F	RunNo: <b>8</b>	6387				
Prep Date:	3/10/2022	Analysis Da	te: 3/	10/2022	S	SeqNo: 3	047847	Units: mg/Kg	3		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.9	90	110			
Sample ID:	MB-66099	SampTy	pe: <b>mb</b>	olk	Tes	tCode: El	PA Method	300.0: Anions	;		
Client ID:					_						
Cilent ID.	PBS	Batch I	ID: 660	)99	F	RunNo: 8	5410				
Prep Date:		Batch I Analysis Da				8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		Units: mg/Kg	9		
		Analysis Da Result		10/2022		SeqNo: 3		Units: <b>mg/K</b> g HighLimit	9 %RPD	RPDLimit	Qual
Prep Date:		Analysis Da	te: 3/	10/2022	S	SeqNo: 3	048309		-	RPDLimit	Qual
Prep Date: Analyte Chloride		Analysis Da Result	te: <b>3/</b> PQL 1.5	10/2022 SPK value	SPK Ref Val	SeqNo: 3	048309 LowLimit		%RPD	RPDLimit	Qual
Prep Date: Analyte Chloride	3/10/2022	Analysis Da Result ND	te: 3/ PQL 1.5 pe: Ics	10/2022 SPK value	SPK Ref Val	SeqNo: 3	D48309 LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: Analyte Chloride Sample ID:	3/10/2022 LCS-66099 LCSS	Analysis Da Result ND SampTy	te: 3/ PQL 1.5 pe: Ics	10/2022 SPK value	SPK Ref Val Tes F	SeqNo: 36 %REC tCode: Ef	D48309 LowLimit PA Method	HighLimit	%RPD	RPDLimit	Qual
Prep Date: Analyte Chloride Sample ID: Client ID:	3/10/2022 LCS-66099 LCSS	Analysis Da Result ND SampTyj Batch I	te: 3/ PQL 1.5 pe: Ics	10/2022 SPK value	SPK Ref Val Tes F	SeqNo: 30 %REC tCode: EI RunNo: 80 SeqNo: 30	D48309 LowLimit PA Method	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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 Environmenta

REPORT	WO#:	2203352	
al Analysis Laboratory, Inc.		16-Mar-22	

Client: EOG		
Project: Copelen	n Federal 1	
Sample ID: LCS-65995	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 65995	RunNo: 86343
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045214 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	48 10 50.00	0 96.9 68.9 135
Surr: DNOP	5.1 5.000	103 51.1 141
Sample ID: MB-65995	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 65995	RunNo: 86343
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045220 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	10 10.00	102 51.1 141
Sample ID: MB-66028	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 66028	RunNo: 86364
Prep Date: 3/8/2022	Analysis Date: 3/9/2022	SeqNo: 3045933 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	9.9 10.00	98.9 51.1 141
Sample ID: MB-66042	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 66042	RunNo: 86364
Prep Date: 3/8/2022	Analysis Date: 3/9/2022	SeqNo: 3045934 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.6 10.00	96.2 51.1 141
Sample ID: LCS-66028	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 66028	RunNo: <b>86364</b>
Prep Date: 3/8/2022	Analysis Date: 3/9/2022	SeqNo: 3045936 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Analyte Diesel Range Organics (DRO)	ResultPQLSPK value491050.00	SPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQual097.368.9135

**Qualifiers:** 

D

Н

ND

\* Value exceeds Maximum Contaminant Level. в Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

Sample Diluted Due to Matrix

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

Holding times for preparation or analysis exceeded

RL Reporting Limit Page 12 of 15

	WO#:	2203352	
Inc.		16-Mar-22	

Client:	EOG										
Project:	Copelen	Federal 1									
Sample ID: LCS	-66042	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: LCS	S	Batch	ID: 66	042	F	unNo: 8	6364				
Prep Date: 3/8/	2022	Analysis Da	ate: 3/	9/2022	S	SeqNo: 3	045937	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.4		5.000		88.9	51.1	141			
Sample ID: MB-6	66050	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PBS		Batch	ID: 66	050	F	unNo: 8	6373				
Prep Date: 3/9/	2022	Analysis Da	ate: 3/	10/2022	S	eqNo: 3	047399	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		12		10.00		116	51.1	141			
Sample ID: LCS	-66050	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: LCS	S	Batch	ID: 66	050	F	lunNo: <b>8</b>	6373				
Prep Date: 3/9/	2022	Analysis Da	ate: 3/	10/2022	S	eqNo: 3	047414	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.9		10.00		99.3	51.1	141			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix 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 13 of 15

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

#: 22	WO#:
16-N	

Client: Project:	EOG Copeler	n Federal 1									
Sample ID:	L.	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID:	LCSS	Batch	ID: 659	989	F	RunNo: 8	6374		· ·		
Prep Date:		Analysis Da			S	SeqNo: 3	046245	Units: mg/K	a		
Analyte		Result	PQL		SPK Ref Val	•	LowLimit	HighLimit	%RPD	RPDLimit	Qual
,	e Organics (GRO)	27	FQL 5.0	25.00	OFR Rei Vai	<sup>30</sup> REC 107	20wLiniit 78.6	High∟init 131	70KFD	REDLIIIII	Quai
Surr: BFB	o organios (orto)	1200	0.0	1000	0	116	70	130			
Sample ID:	mb-65989	SampT	vpe: MF	N K	Tes	tCode: <b>F</b>		8015D: Gasc	line Rang	<b>e</b>	
•	PBS		ID: 659			RunNo: 80		00100.0030	ine nang	•	
Prep Date:		Analysis Da				SeqNo: 30		Units: mg/K	a		
·	0,112022					•		•	•		<b>.</b> .
Analyte		Result ND	PQL 5.0	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	e Organics (GRO)	ND 1100	5.0	1000		107	70	130			
0 1 15											
Sample ID:		SampT						8015D: Gasc	line Rang	e	
Client ID:	LCSS	Batch	ID: 659	994	F	RunNo: 8	6374				
Prep Date:	3/7/2022	Analysis Da	ate: 3/	9/2022	5	SeqNo: 30	046269	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB		1200		1000		119	70	130			
Sample ID:	mb-65994	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID:	PBS	Batch	ID: 659	994	F	RunNo: <b>8</b>	6374				
Prep Date:	3/7/2022	Analysis Da	ate: 3/	9/2022	S	SeqNo: 30	046270	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
								-			
Gasoline Range	e Organics (GRO)	ND	5.0								

#### **Qualifiers:**

\* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

в Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

WO#:	2203352
	16-Mar-22

Client:EOGProject:Copele	en Federal 1									
Sample ID: Ics-65989	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: LCSS	LCSS Batch ID: 65989			F	RunNo: <b>86374</b>					
Prep Date: 3/7/2022	Analysis D				SeqNo: 30		Units: mg/k	a		
							-	-		<b>.</b> .
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene Toluene	0.92 0.94	0.025 0.050	1.000 1.000	0 0	92.4 93.9	80 80	120 120			
Ethylbenzene	0.94	0.050	1.000	0	93.9 94.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	0.89	0.1.0	1.000	Ū	88.9	70	130			
Sample ID: <b>mb-65989</b>	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	D: 659	989	F	RunNo: 80	6374				
Prep Date: 3/7/2022	Analysis D	ate: 3/9	9/2022	S	SeqNo: <b>3</b> (	)46299	Units: mg/k	ζg		
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	0.90		1.000		90.2	70	130			
Sample ID: Ics-65994	SampT	ype: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	ID: 659	994	F	RunNo: <b>8</b>	6374				
Prep Date: 3/7/2022	Analysis D	ate: 3/9	9/2022	S	SeqNo: 30	046322	Units: mg/k	(g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			
Sample ID: mb-65994	SampT	ype: <b>MB</b>	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	1D: 659	994	F	RunNo: <b>8</b>	6374				
Prep Date: 3/7/2022	Analysis D	ate: 3/9	9/2022	5	SeqNo: 30	046323	Units: mg/k	٤g		
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	0.90		1.000		89.9	70	130			

#### **Qualifiers:**

Н

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

в

Е

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank

Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 15 of 15

ANALYSIS LABORATORY	TEL: 505-345-		-345-4107	Page 13 ample Log-In Check List		
Client Name: EOG	Work Order Nur	nber: 2203352	2		RcptNo: 1	
Received By: Cheyenne Cason	3/4/2022 8:00:00 /	AM	Che	l		
Completed By: Sean Livingston	3/4/2022 3:59:53	PM	<	- /	in the	
Reviewed By: 16 3-4-22			-	)~L	John	
Chain of Custody						
1. Is Chain of Custody complete?		Yes 🔽	N	lo 🗌	Not Present	
2. How was the sample delivered?		Courier				
Log In						
3. Was an attempt made to cool the samples?		Yes 🔽	N	•	NA 🗌	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🔽	N	•		
5. Sample(s) in proper container(s)?		Yes 🔽	N	•		
6. Sufficient sample volume for indicated test(s	)?	Yes 🔽	N			
7. Are samples (except VOA and ONG) properly		Yes 🔽				
8. Was preservative added to bottles?		Yes 🗌	No			
9. Received at least 1 vial with headspace <1/4	" for AQ VOA?	Yes 🗌	No		NA 🗹	
10. Were any sample containers received broke		Yes		• 🗸		
<ol> <li>Does paperwork match bottle labels?</li> <li>(Note discrepancies on chain of custody)</li> </ol>		Yes 🗹	No		# of preserved bottles checked for pH:	
2. Are matrices correctly identified on Chain of	Custodv?	Yes 🗸	No		(<2 or >12 unless noted) Adjusted?	
3. Is it clear what analyses were requested?		Yes 🗸	No	_		
14. Were all holding times able to be met?		Yes 🔽	No		Checked by: Sol 3/4/22	
(If no, notify customer for authorization.)				1		
Special Handling (if applicable)						
15. Was client notified of all discrepancies with t	his order?	Yes 🗌	N	•	NA 🗹	
Person Notified:	Date	6 J				
By Whom:	Via:	eMail [	Phone	Fax	In Person	
Regarding: Client Instructions:						
16. Additional remarks:						
17. Cooler Information	al Intact Seal No	Seal Date	Signed	I Ву		

Client:	It: FO	_													
	い	EOG / R	Ranger	K Standard	d M Rush	h 5 Davi		C.	I	ALL	E S	2	ROL	HALL ENVIRONMENTAL	ITAL
		7		Project Name:				0	A		Y.S	S	LAB	ANALYSIS LABORATORY	<b>TORY</b>
Maili	Mailing Address:		on Inte	Copelern	en Fedural	1# 101	4	4901 Hawkins NE	W		llenvir	onmo	www.hallenvironmental.com	u	
			>	Project #:			-		THAVD		DOIN .	Janbi	- Albuquerque, NM 8/109	8/109	
Phone #:	ie #:				5375			0/62-042-000 Iai	0+0-0	C/RC-	5-1 Sular	rax 50	Analysis Doguson	107	
emai	email or Fax#:			Project Manager:	aner.				┠	1		-	Isanh		
QA/Q	QA/QC Package:	:et	Level 4 (Full Validation)	W,II	11 kerdory	A	(1208) ; 0AM \ (		SVVIS	CIAUC	05 <sup>'†</sup> 0		(In92dA		
	Accreditation:		-	10	Will Ken	Kennedy		4 2808	_	0.170	NO <sup>5</sup> ' E			_	
	EDD (Type)		And the second se	# of Coolers.	N Ye	D NO		3/Sə			1 '6	AO			
				Cooler Tem	Cooler Tempining and U.S. 2012			picid		_	_		_		
					- ( - Supposed	10 + +		tsəc		-			-		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2203352		1 1808	1) 803 2HAS	ARDF		s) 0229 () 0929			
eelela	đ	201 l	TH 2314	dog jar	ice	100-	1.000	3			1.0		1.1		
1		+	TH 33/2			-002			-		-	-			
-		_	8e-11			- 603			-			-			
-		+	74-29			100-			-			-			
		_	1.1			- 005			-			-			
-	-		01-E HT			-006			-		-	-			
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-		_	IT IC HI			- 009			-		-	-	+		
	_		0/ee			-010	-		-		-				+
-			TH 20/4 DAD 3:11:22			- 008					+				
	_														
Date:	Time:	Relinquished by:		Received by:	Via:	Date Time	Remarks;	-			-	_			
-	1			CLANNER	an	3/3/22									
Uate:	Time:	Relinquished by:		Received by:	via	Date Time									
			CMC counter 3/4/22 08:00 4pdated COC serviced 3/11/77 200	CMC CO	courier 31	3/4/22 08:00	updu	updated	COC	90	Ceceived	1	2111/2		

# ATTACHMENT 4 – James H & Betty R Howell Revocable Trust Seed Mix

James H & Betty R Howell Revocable Trust Seed Mix

1lb per acre of Plains Bristlegrass
2lbs per acre of Green Sprangletop
3lbs per acre of Side Oats Gramma
2lbs per acre of Blue Gramma
Increase to 16lbs per acre if broadcast.

Add Reclamation Mix

40% Ryegrass (Annual)

10% Millet

7.5% Kleingrass

5.7% Sideoats

5% Green Sprangletop

7.5% Bristlegrass

**10% Western Wheatgrass** 

# **10% Buffalograss**

## 2.5% Blue Grama

# PLANTING RATE 20 lbs. per acre

Updated 5/23/2021

Received by OCD: 6/16/2022 12:51:54 PM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	nAPP2208337232
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Page 5

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)

<u>Deferral Requests Only</u> : 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 release 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: <u>Chase Settle</u> Date: <u>06/16/2022</u>			
email:       Chase_Settle@eogresources.com       Telephone:       575-748-1471			
OCD Only			
Received by: <u>Robert Hamlet</u> Date: <u>10/25/2022</u>			
Approved Mattached Conditions of Approval Denied Deferral Approved			
Signature: Robert Hamlet Date: 10/25/2022			

•

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	118037
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created B	y Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All off pad areas or pad areas considered "land no longer in use" must contain a minimum of 4 feet non- waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. A closure report will need to be completed and uploaded within 90 days.	10/25/2022

Action 118037