RANGER
ENVIRONMENTAL SERVICES, INC.

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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ENVIRONMENTAL SERVICES, INC.

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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

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 Depth-to-Groundwater

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 north-northeast 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 Wellhead Protection Area

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 Distance to Nearest Significant Watercourse

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

2.4 Closure Criteria

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[1]	---	50[1]	10[1]

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 Excavation Backfill and Re-Vegetation

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 Remediation Schedule

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 # *nAPP2208337232*
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

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) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☑ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A notice was submitted by the landowner for an area on the previously reclaimed pad that appeared to be impacted. The consultant retained to investigate the area provided notice that it most likely meets reportable criteria on 3/23/2022, based on the initial delineation assessment that has been completed to date.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☑ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have 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
Title: Rep Safety & Environmental Sr

Signature: Chase Settle
Date: 03/24/2022

email: Chase_Settle@eogresources.com
Telephone: 575-748-1471

OCD Only

Received by: Jocelyn Harimon
Date: 03/24/2022

State of New Mexico
Oil Conservation Division

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Application ID	

Site Assessment/Characterization

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

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

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

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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

Printed Name: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

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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: _____

email: _____ Telephone: _____

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

06/16/2022

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2208337232
District RP	
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Application ID	

Site Assessment/Characterization

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

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

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2208337232
District RP	
Facility ID	
Application ID	

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

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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
☒ 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

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

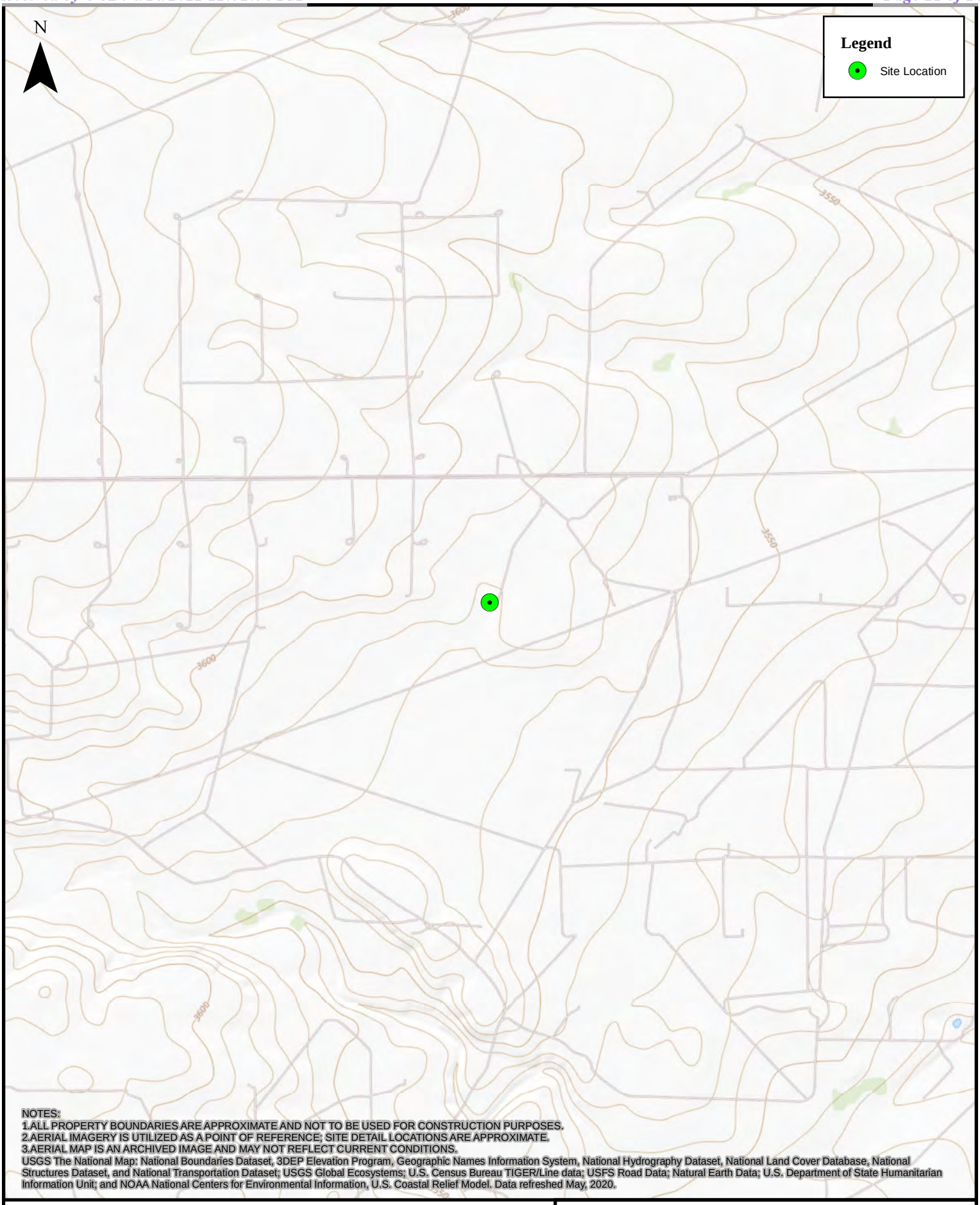
Received by: _____ Date: _____

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

Signature: _____ Date: _____

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



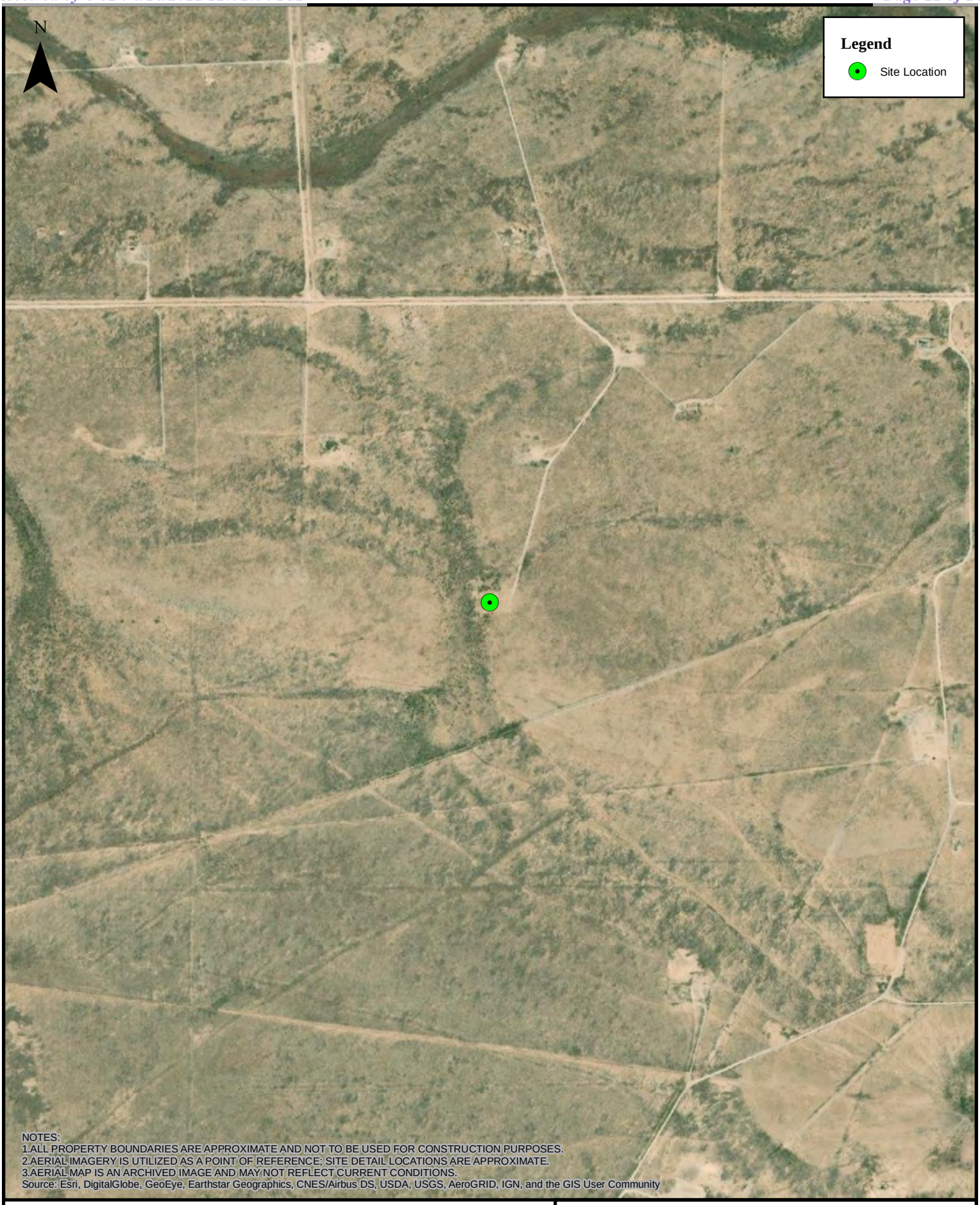
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

RANGER ENVIRONMENTAL SERVICES, INC.

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

1:24,000

Topographic Map
Copelan Federal #1
EOG Resources, Inc.



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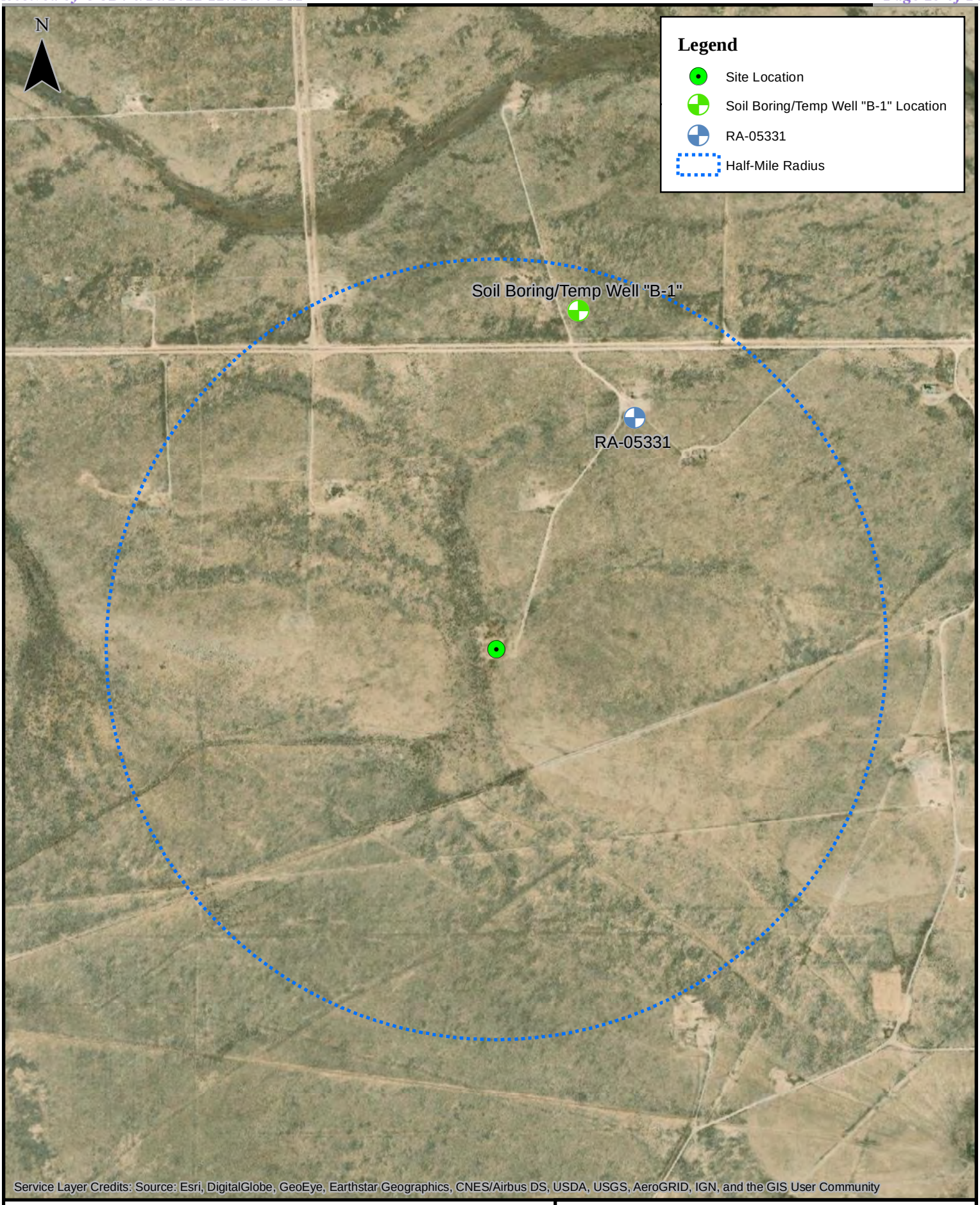
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RANGER ENVIRONMENTAL SERVICES, INC.

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

1:10,000

Area Map
Copelan Federal #1
EOG Resources, Inc.



RANGER ENVIRONMENTAL SERVICES, INC.

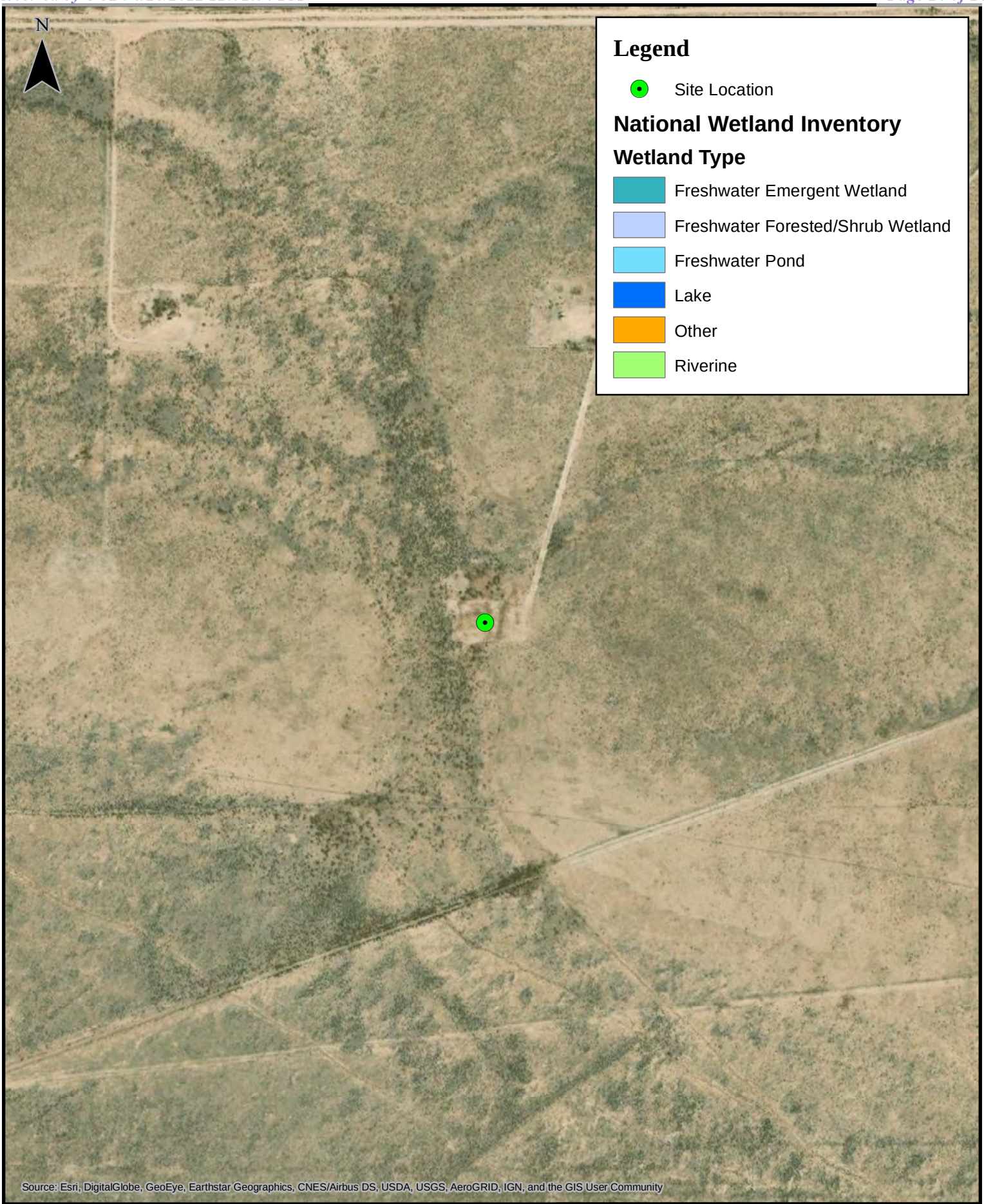
0 250 500 1,000 1,500 2,000 Feet

1:10,000

DTGW Information Location Map

Copelan Federal #1

EOG Resources, Inc.

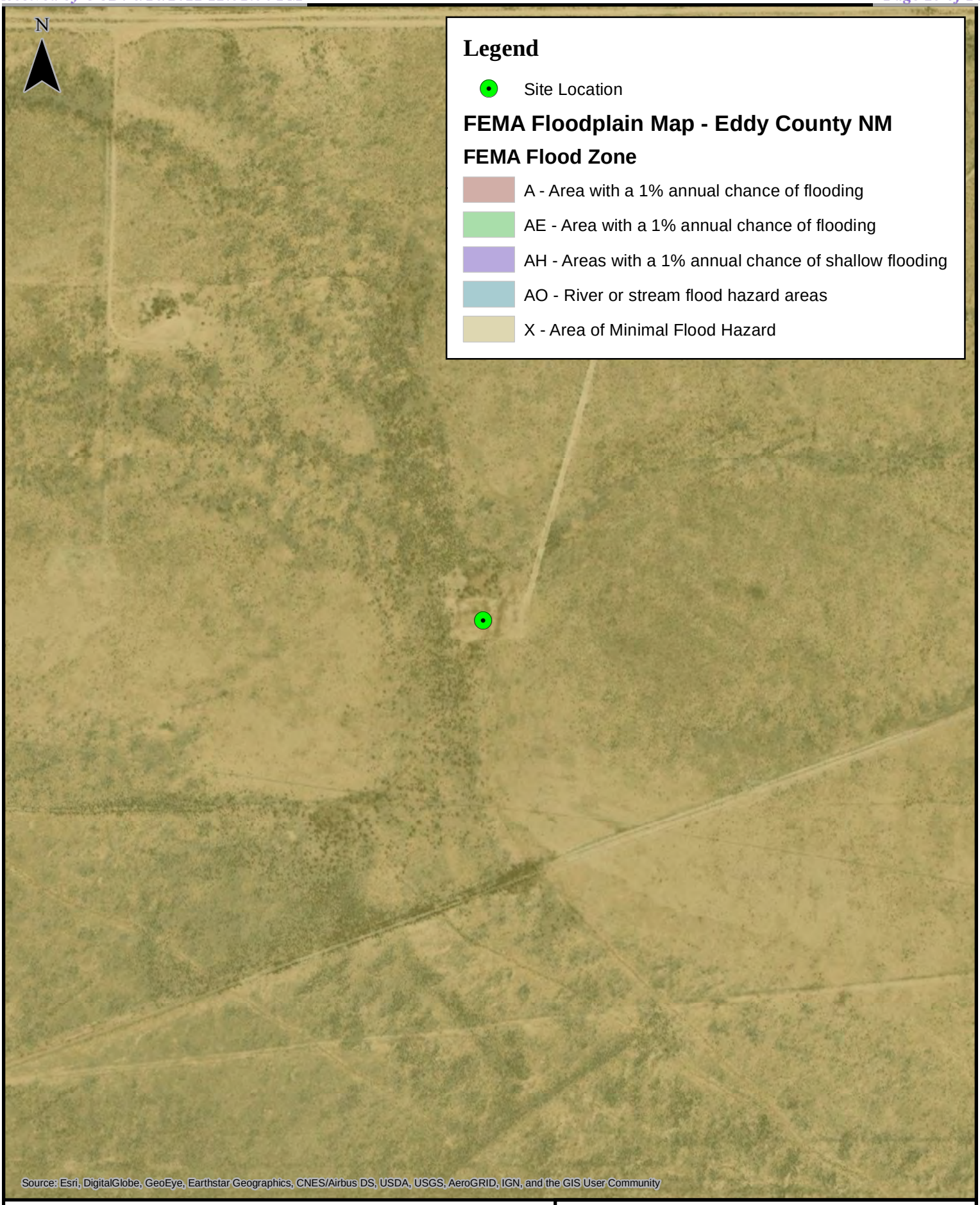


RANGER ENVIRONMENTAL SERVICES, INC.

0 125 250 500 750 1,000 Feet

1:5,000

National Wetland Inventory Map
Copelan Federal #1
EOG Resources, Inc.

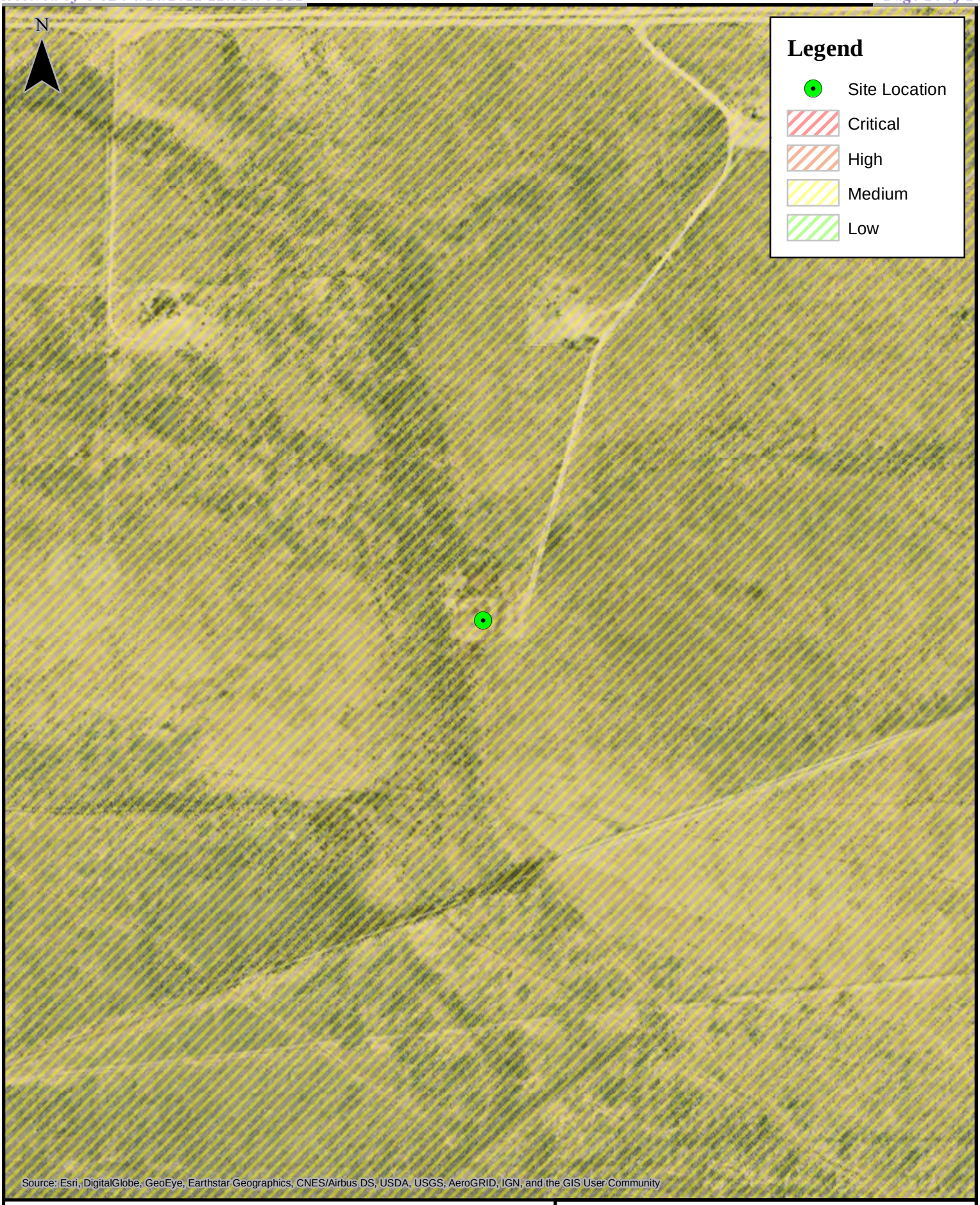


RANGER ENVIRONMENTAL SERVICES, INC.

0 125 250 500 750 1,000 Feet

1:5,000

FEMA Floodplain Map
Copelan Federal #1
EOG Resources, Inc.

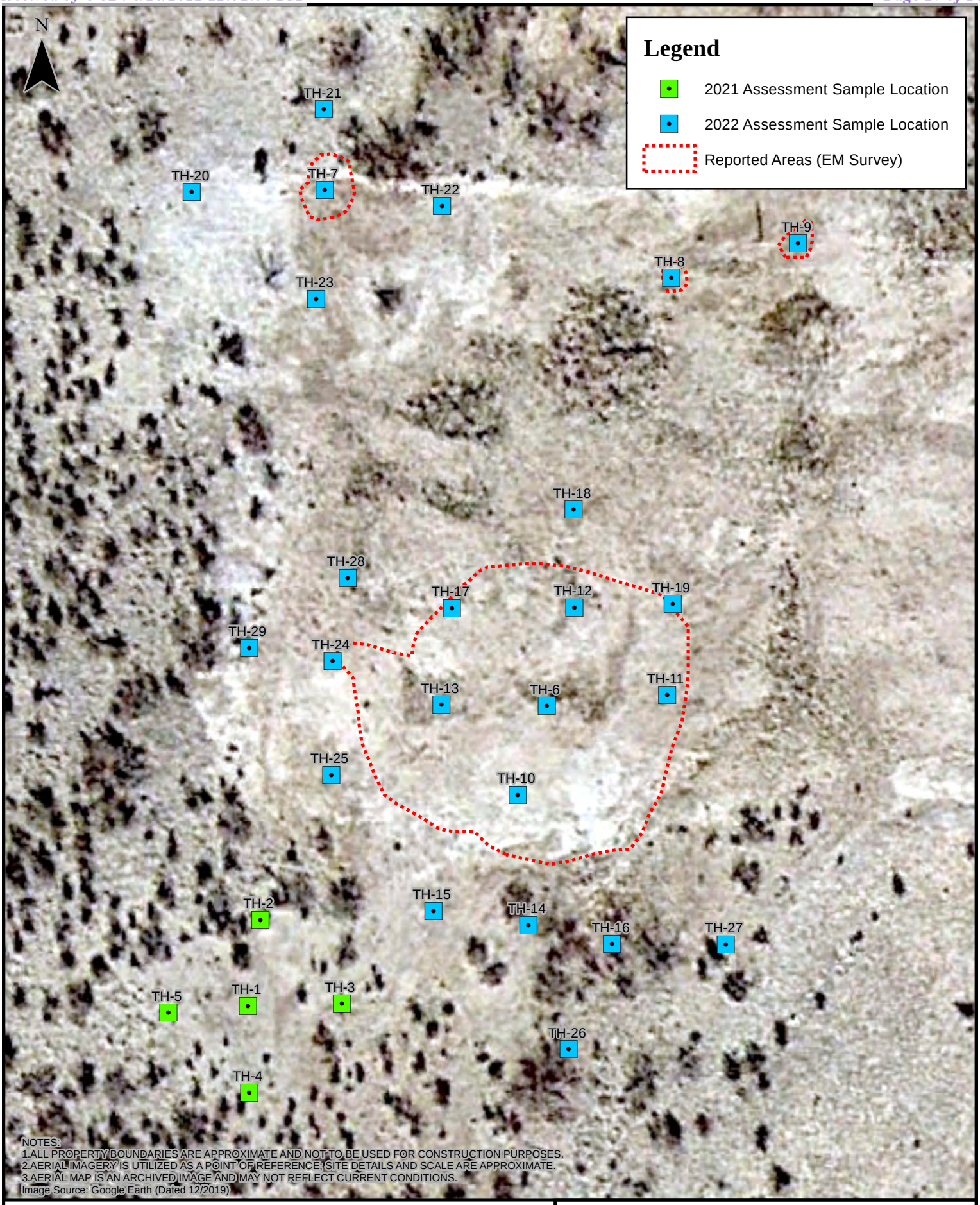


RANGER ENVIRONMENTAL SERVICES, INC.

0 125 250 500 750 1,000 Feet

1:5,000

Karst Topography Map
Copelan Federal #1
EOG Resources, Inc.



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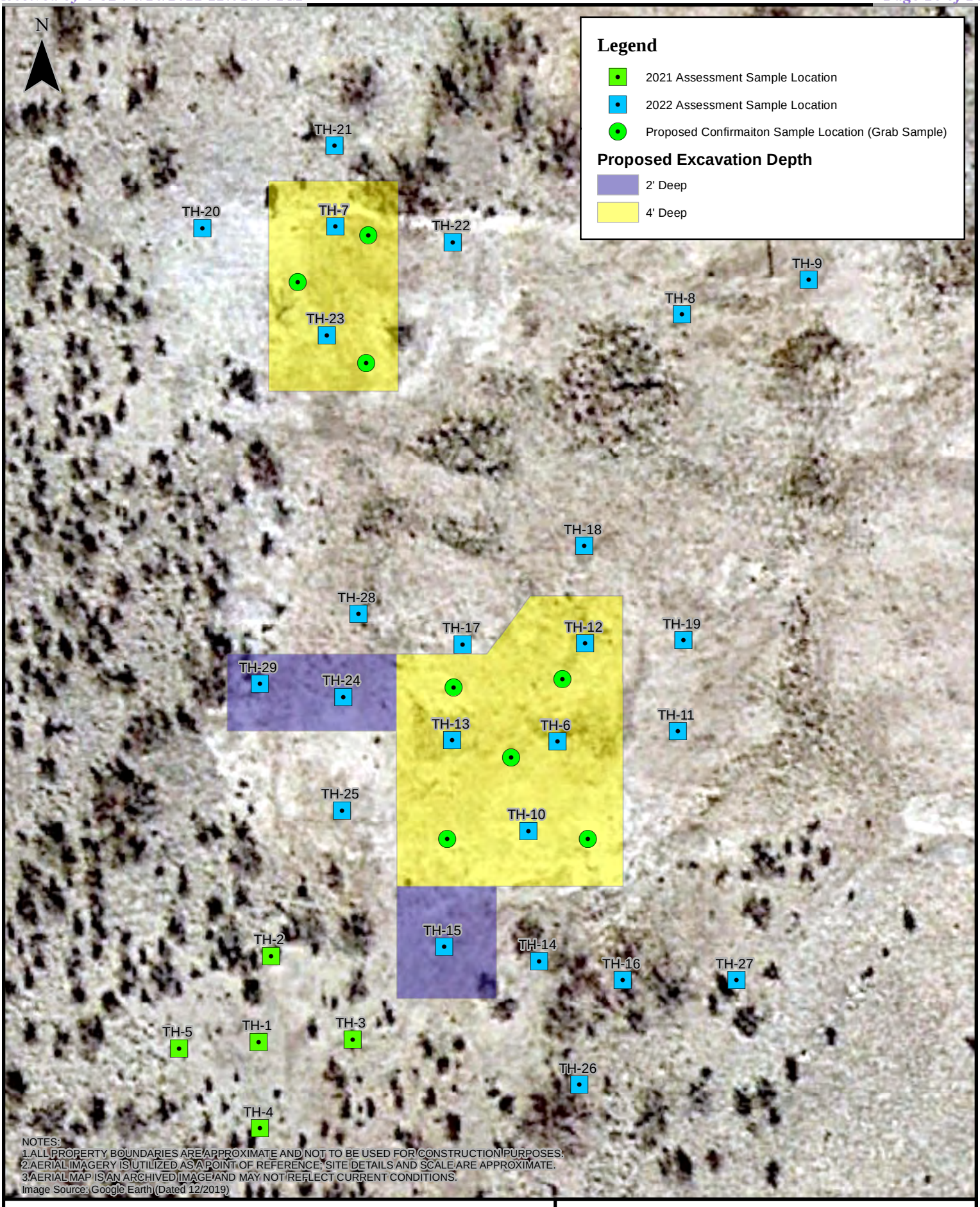
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Google Earth (Dated 12/2019)

RANGER ENVIRONMENTAL SERVICES, INC.

0 5 10 20 30 40 Feet

1:325

Assessment Sample Location Map
Copelan Federal #1
EOG Resources, Inc.



NOTES:
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3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Google Earth (Dated 12/2019)

RANGER ENVIRONMENTAL SERVICES, INC.

0 5 10 20 30 40 Feet

1:325

Proposed Excavation and Sample Location Map
Copelan Federal #1
EOG Resources, Inc.

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 values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	CHLORIDE
Reported Area South of Well Pad Soil Samples (09/28/2021)													
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
TH-2/0'	9/28/2021	0'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	<60
TH-2/2'	9/28/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.3	<46	<9.3	<46	<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
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
TH-5/0'	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 Closure Criteria for Soils Impacted by a Release (GW > 100')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**1,000**	**2,500**	**20,000**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10** [3]	**---**	**---**	**---**	**50** [3]	**---**	**---**	**---**	**---**	**100** [3]	**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.

2022 SITE ASSESSMENT SOIL BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
EOG RESOURCES, INC.
COPELAN FEDERAL #1

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

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
EM Survey Area Assessment Soil Samples													
TH-6/5	2/9/2022	5'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.7	<49	<9.7	<49	4,600
TH-6/8	2/9/2022	8'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	14	<48	14	14	5,000
TH-6/11	3/1/2022	11'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.2	<46	<9.2	<46	8,400
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	4,700
TH-7/2	2/9/2022	2'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.9	<50	<9.9	<50	**610**
TH-7/4	2/9/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.1	<46	<9.1	<46	760
TH-7/7	3/2/2022	7'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<45	<9.1	<45	2,800
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	760
TH-8/2	2/16/2022	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.7	<49	<9.7	<49	360
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	590
TH-9/2	2/16/2022	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	240
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	340
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	5,600
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	9,600
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	430
TH-11/2	2/9/2022	2'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<10	<50	<10	<50	360
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	950
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	950
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	350
TH-13/4	2/9/2022	4'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	150	340	<13.7	490	350
TH-14/1	2/16/2022	1'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.4	<47	<9.4	<47	<60
TH-14/4	2/16/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.9	<49	<9.9	<49	<60
TH-15/1	2/16/2022	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	65	190	65	**255**	230
TH-15/4	2/16/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<10	<50	<10	<50	650
TH-16/1	2/16/2022	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<49	<9.7	<49	<60
TH-16/4	2/16/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	25	91	25	116	72
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	530
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	450
TH-18/0	3/1/2022	0'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.1	<46	<9.1	<46	<60
TH-18/4	3/1/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<48	<9.5	<48	140
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	<60
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	600
TH-20/0	3/2/2022	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	10	<46	10	10	<60
TH-20/4	3/2/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.5	<48	<9.5	<48	<61
TH-21/1	3/2/2022	1'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	<60
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	<60
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	**780**
TH-23/4	3/2/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	770
TH-24/0	3/1/2022	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	36	130	36	**166**	**1,200**
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	330
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	230
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	180
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	<60
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	<60
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	<60
TH-27/2	3/1/2022	2'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<9.8	<49	<9.8	<49	<60
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	<60
TH-29	3/2/2022	0'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	120	280	120	**400**	72
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW > 100')			**10**	---	---	---	**50**	---	---	---	**1,000**	**2,500**	**20,000**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10** [3]	---	---	---	**50** [3]	---	---	---	---	**100** [3]	**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.

ATTACHMENT 1 – DEPTH-TO-GROUNDWATER DATA

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Nicholas BJ (Battery)
HOLE DESIGNATION: SB-1
PROJECT NUMBER: 12579884
DATE COMPLETED: 6 May 2022
CLIENT: EOG Resources
DRILLING METHOD: Air Rotary/Split Spoons and Cuttings
LOCATION: Eddy County, New Mexico
FIELD PERSONNEL: L. Mullins
DRILLING CONTRACTOR: HCI Drilling
DRILLER: K. Cooper

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %
0	SP-SAND, fine to medium grained sand, with partially consolidated caliche, interbedded throughout					
5						
10						
15						
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						

NOTES:

File: \\GHDNET\GHD\US\MIDLAND\PROJECTS\562\12579884\TECH\GINT LOGS\12579884 LOGS.GPJ Library File: GHD_ENVIRO_V06.GLB Report: BEDROCK LOG Date: 9/6/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Nicholas BJ (Battery)
HOLE DESIGNATION: SB-1
PROJECT NUMBER: 12579884
DATE COMPLETED: 6 May 2022
CLIENT: EOG Resources
DRILLING METHOD: Air Rotary/Split Spoons and Cuttings
LOCATION: Eddy County, New Mexico
FIELD PERSONNEL: L. Mullins
DRILLING CONTRACTOR: HCI Drilling
DRILLER: K. Cooper

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %
75	CL-SANDY CLAY, grey, dry - slightly moist at 75.00ft BGS	70.00				
80						
85						
90						
95						
100			2" Ø Screen			
105						
110	END OF BOREHOLE @ 109.00ft BGS	109.00	WELL DETAILS Screened interval: 99.00 to 109.00ft BGS Length: 10ft Diameter: 2in NOTE: This well was plugged and abandoned.			
115						
120						
125						
130						
135						

NOTES: Temp Well Gauged on May 11, 2022 and no groundwater was detected. Temp well was plugged and abandoned.

File: \\GHDNET\GHD\US\MIDLAND\PROJECTS\562\12579884\TECH\GINT LOGS\12579884 LOGS.GPJ Library File: GHD_ENVIRO_V06.GLB Report: BEDROCK LOG Date: 9/6/22

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	RA 05331	1	1	4	05	19S	25E	546308	3616955*

Driller License:	353	**Driller Company:**	OSBOURN DRILLING & PUMP CO.		
Driller Name:					
Drill Start Date:	04/05/1967	**Drill Finish Date:**	04/13/1967	**Plug Date:**	
Log File Date:	04/17/1967	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.50	**Depth Well:**	460 feet	**Depth Water:**	305 feet

Water Bearing Stratifications:	Top	Bottom	Description
	328	364	Limestone/Dolomite/Chalk
	398	440	Other/Unknown

Casing Perforations:	Top	Bottom
	400	440

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

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

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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-1/0'
Project: Copelan Fed #1
Collection Date: 9/28/2021 7:33:00 AM
Lab ID: 2109H12-001 **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: **CAS**	
Chloride	ND	60		mg/Kg	20	10/6/2021 4:06:10 AM	63042
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

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 7:40:00 AM

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

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-1/4'
Project: Copelan Fed #1
Collection Date: 9/28/2021 7:40:00 AM
Lab ID: 2109H12-003 **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: **CAS**	
Chloride	ND	60		mg/Kg	20	10/6/2021 4:30:58 AM	63042
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-2/0'
Project: Copelan Fed #1
Collection Date: 9/28/2021 8:00:00 AM
Lab ID: 2109H12-004 **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: **CAS**	
Chloride	ND	60		mg/Kg	20	10/6/2021 5:33:01 AM	63042
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

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 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	61		mg/Kg	20	10/6/2021 8:13:09 PM	63075
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-2/4'
Project: Copelan Fed #1
Collection Date: 9/28/2021 8:13:00 AM
Lab ID: 2109H12-006 **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	10/6/2021 8:50:24 PM	63075
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/5/2021 4:18:53 PM	63003
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/5/2021 4:18:53 PM	63003
Surr: DNOP	63.0	70-130	S	%Rec	1	10/5/2021 4:18:53 PM	63003
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range 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 METHOD 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	ND	0.048		mg/Kg	1	10/5/2021 1:13:00 AM	62981
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2021 1:13:00 AM	62981
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	10/5/2021 1:13:00 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-3/0'
Project: Copelan Fed #1
Collection Date: 9/28/2021 8:24:00 AM
Lab ID: 2109H12-007 **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 12:15:41 PM	63116
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-3/2'
Project: Copelan Fed #1
Collection Date: 9/28/2021 8:27:00 AM
Lab ID: 2109H12-008 **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 12:28:06 PM	63116
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-3/4'
Project: 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 RANGE 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 RANGE						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
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2021 2:12:00 AM	62981
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2021 2:12:00 AM	62981
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	10/5/2021 2:12:00 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-4/0'
Project: Copelan Fed #1
Collection Date: 9/28/2021 8:49:00 AM
Lab ID: 2109H12-010 **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 12:52:56 PM	63116
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-4/2'
Project: Copelan Fed #1
Collection Date: 9/28/2021 8:51:00 AM
Lab ID: 2109H12-011 **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	61		mg/Kg	20	10/7/2021 1:05:21 PM	63116
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-4/4'
Project: Copelan Fed #1
Collection Date: 9/28/2021 9:02:00 AM
Lab ID: 2109H12-012 **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 1:17:46 PM	63116
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-5/0'
Project: Copelan Fed #1
Collection Date: 9/28/2021 9:18:00 AM
Lab ID: 2109H12-013 **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	59		mg/Kg	20	10/7/2021 1:30:11 PM	63116
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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

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

Qualifiers:

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

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

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 **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 1:42:36 PM	63116
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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

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

Qualifiers:

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

Analytical Report
Lab Order **2109H12**
Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-5/4'
Project: Copelan Fed #1
Collection Date: 9/28/2021 9:33:00 AM
Lab ID: 2109H12-015 **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 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 RANGE						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

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109H12**

13-Oct-21

Client: EOG

Project: Copelan 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: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-63042** SampType: **lcs** 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: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

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: **mg/Kg**

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: **mg/Kg**

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:

*	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109H12**

13-Oct-21

Client: EOG

Project: Copelan Fed #1

Sample ID: **MB-63003**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **63003**	RunNo: **81801**
Prep Date: **10/4/2021**	Analysis Date: **10/5/2021**	SeqNo: **2894853** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.9	70	130			

Sample ID: **LCS-63003**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **63003**	RunNo: **81801**
Prep Date: **10/4/2021**	Analysis Date: **10/5/2021**	SeqNo: **2894854** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.6	68.9	135			
Surr: DNOP	4.0		5.000		79.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2109H12**

13-Oct-21

Client: EOG

Project: Copelan Fed #1

Sample ID: **mb-62981**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **62981**	RunNo: **81772**
Prep Date: **10/1/2021**	Analysis Date: **10/4/2021**	SeqNo: **2891809** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.1	70	130			

Sample ID: **lcs-62981**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **62981**	RunNo: **81772**
Prep Date: **10/1/2021**	Analysis Date: **10/4/2021**	SeqNo: **2891811** Units: **mg/Kg**

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
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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2109H12**
13-Oct-21

Client: EOG
Project: Copelan Fed #1

Sample ID: **mb-62981** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **62981** RunNo: **81772**
Prep Date: **10/1/2021** Analysis Date: **10/4/2021** SeqNo: **2891855** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			

Sample ID: **lcs-62981** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **62981** RunNo: **81772**
Prep Date: **10/1/2021** Analysis Date: **10/4/2021** SeqNo: **2891857** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	0.98	0.050	1.000	0	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			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	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
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2109H12 | RcptNo: 1

Received By: Cheyenne Cason 9/29/2021 7:40:00 AM

Completed By: Isaiah Ortiz 9/29/2021 5:12:14 PM

Reviewed By: JR 10/1/21

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: TMC 10/1/21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Not Present			
2	4.8	Good	Not Present			

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☒ Standard ☐ **Rush**_____

Project Name: Copelan Fed #1

Project #: 5375

Project Manager: W. Kierdorf

Sampler: Will Kennedy

On Ice: ☑ Yes ☐ No

# of Coolers: 2 $5.2-0=5.2$

Cooler Temp (including CF): $4.8-0=4.8$

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2109H12	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/28	0733	Soil	TH-1/0'	1x 4oz Jar	Ice	001	X	X	X
	0735	Soil	TH-1/2'			002			
	0740	Soil	TH-1/4'			003			
	0800	Soil	TH-2/0'			004			
	0805	Soil	TH-2/2'			005			
	0813	Soil	TH-2/4'			006			
	0824	Soil	TH-3/0'			007			
	0827	Soil	TH-3/2'			008			
	0832	Soil	TH-3/4'			009			
	0849	Soil	TH-4/0'			010			
	0851	Soil	TH-4/2'			011			
	0902	Soil	TH-4/4'			012			

Date	Time	Relinquished by	Received by	Via	Date	Time
9/28/21	1301	Will Kennedy				
9/28/21	1900				9/29/21	0740

Remarks: Bill to EOG Artesia

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

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time: 5 Days
☑ Standard ☐ **Rush**_____

Project Name: Copelan Fed #1

Project #: 5375

Project Manager: W. Kierdorf

Sampler: Will Kennedy
On Ice: ☒ Yes ☐ No
# of Coolers: 2 5.2 -0 = 5.2
Cooler Temp(including CF): 4.8 -0 = 4.8

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2109H12	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/28	0918	Soil	TH-5/0'	1x4ozJar	Ice	013	X	X	X
"	0926	Soil	TH-5/2'	"	"	014	"	"	"
"	0933	Soil	TH-5/4'	"	"	015	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			[signature]		9/29/22	1301
Date: 9/28/22	Time: 1900	Relinquished by: [signature]	Received by: [signature] (courier)	Via: Courier	Date: 9/29/22	Time: 0740

Remarks: Bill to EOG Artesia

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

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

February 22, 2022

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

RE: Copelan Federal 1 OrderNo.: 2202571

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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-6/5
Project: Copelan Federal 1 **Collection Date:** 2/9/2022 9:52:00 AM
Lab ID: 2202571-001 **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	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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-6/8
Project: Copelan Federal 1 **Collection Date:** 2/9/2022 10:15:00 AM
Lab ID: 2202571-002 **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	5000	150		mg/Kg	50	2/18/2022 4:19:26 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
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 RANGE						Analyst: **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						Analyst: **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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-10/5
Project: Copelan Federal 1 **Collection Date:** 2/9/2022 10:56:00 AM
Lab ID: 2202571-003 **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	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-10/14
Project: Copelan Federal 1 **Collection Date:** 2/9/2022 11:48:00 AM
Lab ID: 2202571-004 **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	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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-11/0
Project: Copelan Federal 1 **Collection Date:** 2/9/2022 12:40:00 PM
Lab ID: 2202571-005 **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	430	60		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		mg/Kg	1	2/16/2022 7:23:38 AM	65517
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/16/2022 7:23:38 AM	65517
Surr: DNOP	110	51.1-141		%Rec	1	2/16/2022 7:23:38 AM	65517
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/14/2022 6:41:05 PM	65499
Surr: BFB	114	70-130		%Rec	1	2/14/2022 6:41:05 PM	65499
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	2/14/2022 6:41:05 PM	65499
Toluene	ND	0.046		mg/Kg	1	2/14/2022 6:41:05 PM	65499
Ethylbenzene	ND	0.046		mg/Kg	1	2/14/2022 6:41:05 PM	65499
Xylenes, Total	ND	0.093		mg/Kg	1	2/14/2022 6:41:05 PM	65499
Surr: 4-Bromofluorobenzene	108	70-130		%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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-11/2
Project: Copelan Federal 1
Collection Date: 2/9/2022 1:00:00 PM
Lab ID: 2202571-006 **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	360	60		mg/Kg	20	2/17/2022 3:11:26 PM	65610
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-12/4
Project: Copelan Federal 1 **Collection Date:** 2/9/2022 3:02:00 PM
Lab ID: 2202571-007 **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 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

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

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-13/1
Project: Copelan Federal 1 **Collection Date:** 2/9/2022 3:22:00 PM
Lab ID: 2202571-009 **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 4:13:27 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

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

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-7/2
Project: Copelan Federal 1
Collection Date: 2/9/2022 3:47:00 PM
Lab ID: 2202571-011 **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	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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202571**
Date Reported: **2/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-7/4
Project: Copelan Federal 1 **Collection Date:** 2/9/2022 4:00:00 PM
Lab ID: 2202571-012 **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	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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202571**

22-Feb-22

Client: EOG

Project: Copelan Federal 1

Sample ID: **MB-65610** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **65610** RunNo: **85918**

Prep Date: **2/17/2022** Analysis Date: **2/17/2022** SeqNo: **3025704** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65610** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **65610** RunNo: **85918**

Prep Date: **2/17/2022** Analysis Date: **2/17/2022** SeqNo: **3025705** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202571**
22-Feb-22

Client: EOG
Project: Copelan Federal 1

Sample ID: **LCS-65517** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **65517** RunNo: **85859**
Prep Date: **2/14/2022** Analysis Date: **2/15/2022** SeqNo: **3023640** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.9	68.9	135			
Surr: DNOP	4.0		5.000		79.3	51.1	141			

Sample ID: **LCS-65518** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **65518** RunNo: **85859**
Prep Date: **2/14/2022** Analysis Date: **2/15/2022** SeqNo: **3023641** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	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: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **65517** RunNo: **85859**
Prep Date: **2/14/2022** Analysis Date: **2/15/2022** SeqNo: **3023642** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.1	51.1	141			

Sample ID: **MB-65518** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **65518** RunNo: **85859**
Prep Date: **2/14/2022** Analysis Date: **2/15/2022** SeqNo: **3023643** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		95.7	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202571**
22-Feb-22

Client: EOG
Project: Copelan Federal 1

Sample ID: **mb-65499** SampType: **MBLK** TestCode: **EPA Method 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 value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		114	70	130			

Sample ID: **LCS-65499** SampType: **LCS** TestCode: **EPA Method 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 value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	78.6	131			
Surr: BFB	1200		1000		123	70	130			

Sample ID: **mb-65502** SampType: **MBLK** TestCode: **EPA Method 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 value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1200		1000		117	70	130			

Sample ID: **lcs-65502** SampType: **LCS** TestCode: **EPA Method 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 value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	78.6	131			
Surr: BFB	1300		1000		131	70	130			S

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202571**

22-Feb-22

Client: EOG

Project: Copelan Federal 1

Sample ID: **mb-65499**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65499**	RunNo: **85817**
Prep Date: **2/11/2022**	Analysis Date: **2/14/2022**	SeqNo: **3021884** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: **lcs-65499**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65499**	RunNo: **85817**
Prep Date: **2/11/2022**	Analysis Date: **2/14/2022**	SeqNo: **3021885** Units: **mg/Kg**

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**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65502**	RunNo: **85817**
Prep Date: **2/11/2022**	Analysis Date: **2/14/2022**	SeqNo: **3021906** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: **LCS-65502**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65502**	RunNo: **85817**
Prep Date: **2/11/2022**	Analysis Date: **2/14/2022**	SeqNo: **3021907** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.6	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2202571 | 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

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JN 2/11/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			

Chain-of-Custody Record

Client: EOG-Artesia / Ranger

Mailing Address: EOG-105 S. 4th St, Artesia, NM 88210
Ranger- PO Box 201179, Austin, TX 78720

Phone #: 521-335-1785

email or Fax#: will@rangerenv.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☒ NELAC ☐ Other

☒ EDD (Type) Excel

Turn-Around Time:
☐ Standard ☒ Rush 5-day TAT

Project Name: Copelan Federal #1

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.9-0=3.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2202571	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride (EPA 300)
2/9/22	0952	Soil	TH-6/5	1x 4oz. Jar	Ice	001	X	X									X
	1015		TH-6/8			002											
	1056		TH-10/5			003											
	1148		TH-10/14			004											
	1240		TH-11/0			005											
	1300		TH-11/2			006											
	1502		TH-12/4			007											
	1507		TH-12/6			008											
	1522		TH-13/1			009											
	1526		TH-13/4			010											
	1547		TH-7/2			011											
	1600		TH-7/4			012											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/10/22	0900	W. Kennedy			2/10/22	0900
2/10/22	1700				2/11/22	8:00

Remarks:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 01, 2022

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

RE: Copelan Federal 1 OrderNo.: 2202910

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 Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-14/1
Project: Copelan Federal 1 **Collection Date:** 2/16/2022 9:04:00 AM
Lab ID: 2202910-001 **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 10:12:25 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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-14/4
Project: Copelan Federal 1
Collection Date: 2/16/2022 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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-15/1
Project: Copelan Federal 1
Collection Date: 2/16/2022 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						Analyst: **JMT**	
Chloride	230	60		mg/Kg	20	2/25/2022 10:37:14 AM	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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-15/4
Project: Copelan Federal 1
Collection Date: 2/16/2022 9:38:00 AM
Lab ID: 2202910-004 **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	650	60		mg/Kg	20	2/25/2022 10:49:39 AM	65795
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/23/2022 1:48:41 AM	65677
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	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						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	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						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	2/22/2022 4:33:00 AM	65664
Toluene	ND	0.048		mg/Kg	1	2/22/2022 4:33:00 AM	65664
Ethylbenzene	ND	0.048		mg/Kg	1	2/22/2022 4:33:00 AM	65664
Xylenes, Total	ND	0.096		mg/Kg	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-16/1
Project: Copelan Federal 1
Collection Date: 2/16/2022 9:56:00 AM
Lab ID: 2202910-005 **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 11:02:03 AM	65795
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	2/22/2022 4:53:00 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-16/4
Project: Copelan Federal 1
Collection Date: 2/16/2022 10:02:00 AM
Lab ID: 2202910-006 **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	72	60		mg/Kg	20	2/25/2022 11:14:28 AM	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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-8/2
Project: Copelan Federal 1
Collection Date: 2/16/2022 10:21:00 AM
Lab ID: 2202910-007 **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	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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-8/4
Project: Copelan Federal 1
Collection Date: 2/16/2022 10:25:00 AM
Lab ID: 2202910-008 **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	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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-9/2
Project: Copelan Federal 1
Collection Date: 2/16/2022 10:46:00 AM
Lab ID: 2202910-009 **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	240	60		mg/Kg	20	2/25/2022 12:16:32 PM	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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2202910**
Date Reported: **3/1/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-9/4
Project: Copelan Federal 1
Collection Date: 2/16/2022 10:50:00 AM
Lab ID: 2202910-010 **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	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						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:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202910**

01-Mar-22

Client: EOG

Project: Copelan Federal 1

Sample ID: **MB-65795** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **65795** RunNo: **86105**

Prep Date: **2/24/2022** Analysis Date: **2/25/2022** SeqNo: **3034737** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65795** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **65795** RunNo: **86105**

Prep Date: **2/24/2022** Analysis Date: **2/25/2022** SeqNo: **3034738** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202910**

01-Mar-22

Client: EOG

Project: Copelan Federal 1

Sample ID: **LCS-65677** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **65677** RunNo: **85993**

Prep Date: **2/21/2022** Analysis Date: **2/22/2022** SeqNo: **3030888** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.5	68.9	135			
Surr: DNOP	4.7		5.000		94.3	51.1	141			

Sample ID: **MB-65677** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **65677** RunNo: **85993**

Prep Date: **2/21/2022** Analysis Date: **2/22/2022** SeqNo: **3030891** 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** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **65745** RunNo: **86063**

Prep Date: **2/23/2022** Analysis Date: **2/24/2022** SeqNo: **3033007** 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** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **65745** RunNo: **86063**

Prep Date: **2/23/2022** Analysis Date: **2/24/2022** SeqNo: **3033011** 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:

*	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2202910**

01-Mar-22

Client: EOG

Project: Copelan Federal 1

Sample ID: **lcs-65664** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **65664** RunNo: **85977**

Prep Date: **2/18/2022** Analysis Date: **2/21/2022** SeqNo: **3028617** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1200		1000		120	70	130			

Sample ID: **mb-65664** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **65664** RunNo: **85977**

Prep Date: **2/18/2022** Analysis Date: **2/21/2022** SeqNo: **3028618** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	70	130			

Sample ID: **lcs-65691** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **65691** RunNo: **86012**

Prep Date: **2/21/2022** Analysis Date: **2/22/2022** SeqNo: **3030314** Units: **mg/Kg**

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: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **65691** RunNo: **86012**

Prep Date: **2/21/2022** Analysis Date: **2/22/2022** SeqNo: **3030315** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1200		1000		116	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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2202910**
01-Mar-22

Client: EOG
Project: Copelan Federal 1

Sample ID: **lcs-65664** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **65664** RunNo: **85977**
Prep Date: **2/18/2022** Analysis Date: **2/21/2022** SeqNo: **3028671** Units: **mg/Kg**

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** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **65664** RunNo: **85977**
Prep Date: **2/18/2022** Analysis Date: **2/21/2022** SeqNo: **3028672** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	70	130			

Sample ID: **lcs-65691** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **65691** RunNo: **86012**
Prep Date: **2/21/2022** Analysis Date: **2/22/2022** SeqNo: **3030371** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	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** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **65691** RunNo: **86012**
Prep Date: **2/21/2022** Analysis Date: **2/22/2022** SeqNo: **3030372** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2202910 | RcptNo: 1

Received By: Tracy Casarrubias 2/18/2022 7:36:00 AM

Completed By: Tracy Casarrubias 2/18/2022 9:23:31 AM

Reviewed By: 2-18-22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JR 2/18/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Yes			
2	4.2	Good	Yes			

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 5-day TAT

Project Name: Corelan Federal #1

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☑ Yes ☐ No
# of Coolers: 2
Cooler Temp(including CF): See Remarks

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2202910	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
2/16/22	0904	Soil	TH-14 / 1	1x4oz jar	Ice	001	X	X	X
	0910		TH-14 / 4			002			
	0932		TH-15 / 1			003			
	0938		TH-15 / 4			004			
	0956		TH-16 / 1			005			
	1002		TH-16 / 4			006			
	1021		TH-8 / 2			007			
	1025		TH-8 / 4			008			
	1046		TH-9 / 2			009			
	1050		TH-9 / 4			010			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/17/22	0800	W. Kennedy	[signature]		2/17/22	800
2/17/22	1900	[signature]	[signature]		2/18/22	7:36

Remarks: Bill to EOG Artesia
1.) 4.6 + 0.1 = 4.7
2.) 4.1 + 0.1 = 4.2

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 repo

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 15, 2022

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

RE: Copelan Federal 1 OrderNo.: 2203191

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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-6/11
Project: Copelan Federal 1
Collection Date: 3/1/2022 12:03:00 PM
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 METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	8400	300		mg/Kg	100	3/10/2022 5:23:35 AM	66014
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/7/2022 4:47:24 PM	65937
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/7/2022 4:47:24 PM	65937
Surr: DNOP	87.4	51.1-141		%Rec	1	3/7/2022 4:47:24 PM	65937
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/5/2022 9:43:00 PM	65929
Surr: BFB	97.3	70-130		%Rec	1	3/5/2022 9:43:00 PM	65929
EPA METHOD 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
Ethylbenzene	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-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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-6/14
Project: Copelan Federal 1
Collection Date: 3/1/2022 12:35:00 PM
Lab ID: 2203191-002 **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: **JMT**	
Chloride	4700	300		mg/Kg	100	3/10/2022 5:35:59 AM	66014
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range 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: DNOP	91.4	51.1-141		%Rec	1	3/7/2022 4:58:05 PM	65937
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/5/2022 10:03:00 PM	65929
Surr: BFB	96.8	70-130		%Rec	1	3/5/2022 10:03:00 PM	65929
EPA METHOD 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
Ethylbenzene	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-24/0
Project: Copelan Federal 1
Collection Date: 3/1/2022 1:37:00 PM
Lab ID: 2203191-003 **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	1200	60		mg/Kg	20	3/8/2022 5:43:47 PM	66014
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range 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 METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline 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 METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	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
Ethylbenzene	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-24/4
Project: Copelan Federal 1
Collection Date: 3/1/2022 1:45:00 PM
Lab ID: 2203191-004 **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	330	60		mg/Kg	20	3/8/2022 6:20:48 PM	66024
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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
Surr: 4-Bromofluorobenzene	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

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 **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	230	60		mg/Kg	20	3/8/2022 6:57:50 PM	66024
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel 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 METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline 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 METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	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
Ethylbenzene	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-25/4
Project: Copelan Federal 1
Collection Date: 3/1/2022 2:07:00 PM
Lab ID: 2203191-006 **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	180	61		mg/Kg	20	3/8/2022 7:10:10 PM	66024
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range 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: DNOP	77.4	51.1-141		%Rec	1	3/7/2022 5:41:08 PM	65937
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/5/2022 11:22:00 PM	65929
Surr: BFB	102	70-130		%Rec	1	3/5/2022 11:22:00 PM	65929
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	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
Ethylbenzene	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-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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-26/0
Project: Copelan Federal 1
Collection Date: 3/1/2022 2:24:00 PM
Lab ID: 2203191-007 **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 7:22:31 PM	66024
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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
Surr: 4-Bromofluorobenzene	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
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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-26/2
Project: Copelan Federal 1
Collection Date: 3/1/2022 2:28:00 PM
Lab ID: 2203191-008 **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 7:34:52 PM	66024
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/7/2022 6:02:43 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 METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline 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 METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	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
Ethylbenzene	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-27/0
Project: Copelan Federal 1
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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
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		mg/Kg	20	3/8/2022 8:24:14 PM	66024
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/7/2022 6:24:12 PM	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	1	3/6/2022 12:41:00 AM	65929
Surr: BFB	99.6	70-130		%Rec	1	3/6/2022 12:41:00 AM	65929
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	3/6/2022 12:41:00 AM	65929
Toluene	ND	0.047		mg/Kg	1	3/6/2022 12:41:00 AM	65929
Ethylbenzene	ND	0.047		mg/Kg	1	3/6/2022 12:41:00 AM	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-17/4
Project: Copelan Federal 1
Collection Date: 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						Analyst:	**MRA**
Chloride	530	60		mg/Kg	20	3/8/2022 8:36:34 PM	66024
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/7/2022 6:34:55 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						Analyst:	**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						Analyst:	**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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-17/6
Project: Copelan Federal 1
Collection Date: 3/1/2022 3:17:00 PM
Lab ID: 2203191-012 **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	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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-18/0
Project: Copelan Federal 1
Collection Date: 3/1/2022 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
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	3/8/2022 9:01:15 PM	66024
EPA METHOD 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: DNOP	71.1	51.1-141		%Rec	1	3/7/2022 6:56:16 PM	65937
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/4/2022 5:04:17 PM	65931
Surr: BFB	117	70-130		%Rec	1	3/4/2022 5:04:17 PM	65931
EPA METHOD 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
Ethylbenzene	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-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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-18/4
Project: Copelan Federal 1
Collection Date: 3/1/2022 3:34:00 PM
Lab ID: 2203191-014 **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	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						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-19/0
Project: Copelan Federal 1
Collection Date: 3/1/2022 3:47:00 PM
Lab ID: 2203191-015 **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 9:25:57 PM	66024
EPA METHOD 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: DNOP	67.5	51.1-141		%Rec	1	3/7/2022 7:17:34 PM	65937
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/4/2022 5:52:44 PM	65931
Surr: BFB	122	70-130		%Rec	1	3/4/2022 5:52:44 PM	65931
EPA METHOD 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
Ethylbenzene	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-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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
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 METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	600	60		mg/Kg	20	3/8/2022 9:38:17 PM	66024
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/7/2022 7:28:12 PM	65937
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/7/2022 7:28:12 PM	65937
Surr: DNOP	71.5	51.1-141		%Rec	1	3/7/2022 7:28:12 PM	65937
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/4/2022 6:16:54 PM	65931
Surr: BFB	119	70-130		%Rec	1	3/4/2022 6:16:54 PM	65931
EPA METHOD 8021B: VOLATILES						Analyst: **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
Ethylbenzene	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-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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203191**

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: **lcs**	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: **mg/Kg**						
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**							
Client ID: **PBS**	Batch ID: **66024**	RunNo: **86321**							
Prep Date: **3/8/2022**	Analysis Date: **3/8/2022**	SeqNo: **3045007**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66024**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66024**	RunNo: **86321**							
Prep Date: **3/8/2022**	Analysis Date: **3/8/2022**	SeqNo: **3045008**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203191**

15-Mar-22

Client: EOG

Project: Copelan Federal 1

Sample ID: **LCS-65937**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **65937**	RunNo: **86279**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3043463** 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	95.1	68.9	135			
Surr: DNOP	4.0		5.000		80.0	51.1	141			

Sample ID: **MB-65937**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **65937**	RunNo: **86279**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3043467** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		85.6	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203191**

15-Mar-22

Client: EOG

Project: Copelan Federal 1

Sample ID: **mb-65931**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **65931**	RunNo: **86268**
Prep Date: **3/3/2022**	Analysis Date: **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)	ND	5.0								
Surr: BFB	1100		1000		115	70	130			

Sample ID: **lcs-65931**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **65931**	RunNo: **86268**
Prep Date: **3/3/2022**	Analysis Date: **3/4/2022**	SeqNo: **3041331** Units: **mg/Kg**

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: **lcs-65929**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **65929**	RunNo: **86257**
Prep Date: **3/3/2022**	Analysis Date: **3/5/2022**	SeqNo: **3041862** Units: **mg/Kg**

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**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **65929**	RunNo: **86257**
Prep Date: **3/3/2022**	Analysis Date: **3/5/2022**	SeqNo: **3041863** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203191**

15-Mar-22

Client: EOG

Project: Copelan Federal 1

Sample ID: **mb-65931**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65931**	RunNo: **86268**
Prep Date: **3/3/2022**	Analysis Date: **3/4/2022**	SeqNo: **3041445** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: **LCS-65931**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65931**	RunNo: **86268**
Prep Date: **3/3/2022**	Analysis Date: **3/4/2022**	SeqNo: **3041446** Units: **mg/Kg**

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: **lcs-65929**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65929**	RunNo: **86257**
Prep Date: **3/3/2022**	Analysis Date: **3/5/2022**	SeqNo: **3041916** Units: **mg/Kg**

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**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65929**	RunNo: **86257**
Prep Date: **3/3/2022**	Analysis Date: **3/5/2022**	SeqNo: **3041917** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.9	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2203191 | RcptNo: 1

Received By: Sean Livingston 3/3/2022 8:10:00 AM

Completed By: Tracy Casarrubias 3/3/2022 8:33:45 AM

Reviewed By: 3/3/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by: JR 3/3/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			
2	1.2	Good	Yes			

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:
■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 5-day TAT

Project Name: Copelan Federal #1

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 1.4±0=1.4°C
1.2±0=1.2°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2203191	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
2/1/22	1203	Soil	TH-6/11	1x 4oz Jar	ICE	001	X	X	X
	1235		TH-6/14			002			
	1337		TH-24/0			003			
	1345		TH-24/4			004			
	1401		TH-25/0			005			
	1407		TH-25/4			006			
	1424		TH-26/0			007			
	1428		TH-26/2			008			
	1437		TH-27/0			009			
	1441		TH-27/2			010			
	1500		TH-17/4			011			
	1517		TH-17/6			012			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
2/2/22	0800				2/2/22	800
2/2/22	1900			Ice cooler	2/3/22	8:10

Remarks: Bill to EOG Artesia

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

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

QA/QC Package:

■ **Standard** ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

■ **NELAC** ☐ Other_____

■ **EDD** (Type) Excel

Turn-Around Time:

☐ Standard ☒ **Rush** 5-day TAT

Project Name: Copelan Federal #1

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 1.4 +0.1=1.4°C (1.2+0.2=1.4°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
3/1/22	1521	S:1	TH-18/0	1x4oz	ICE	013	X	X	X
	1534		TH-18/4			014			
	1547		TH-19/0			015			
↓	1551	↓	TH-19/2	↓	↓	016	↓	↓	↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/2/22	0800		acummings		3/2/22	800
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			See courier		3/3/22	8:10

Remarks: Bill to EOG Artesia

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

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

March 16, 2022

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

RE: Copelen Federal 1 OrderNo.: 2203352

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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-23/4
Project: Copelen Federal 1 **Collection Date:** 3/2/2022
Lab ID: 2203352-001 **Matrix:** SOIL **Received Date:** 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	770	60		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		mg/Kg	1	3/9/2022 7:38:20 AM	65995
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/9/2022 7:38:20 AM	65995
Surr: DNOP	76.5	51.1-141		%Rec	1	3/9/2022 7:38:20 AM	65995
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/9/2022 4:29:00 PM	65989
Surr: BFB	107	70-130		%Rec	1	3/9/2022 4:29:00 PM	65989
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	3/9/2022 4:29:00 PM	65989
Toluene	ND	0.050		mg/Kg	1	3/9/2022 4:29:00 PM	65989
Ethylbenzene	ND	0.050		mg/Kg	1	3/9/2022 4:29:00 PM	65989
Xylenes, Total	ND	0.10		mg/Kg	1	3/9/2022 4:29:00 PM	65989
Surr: 4-Bromofluorobenzene	88.5	70-130		%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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-23/2
Project: Copelen Federal 1 **Collection Date:** 3/2/2022
Lab ID: 2203352-002 **Matrix:** SOIL **Received Date:** 3/4/2022 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 RANGE						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-28
Project: Copelen Federal 1
Collection Date: 3/2/2022 1:51:00 PM
Lab ID: 2203352-003 **Matrix:** SOIL **Received Date:** 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	3/11/2022 12:19:29 AM	66099
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range 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: DNOP	97.8	51.1-141		%Rec	1	3/9/2022 7:59:22 AM	65995
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/9/2022 5:09:00 PM	65989
Surr: BFB	113	70-130		%Rec	1	3/9/2022 5:09:00 PM	65989
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	3/9/2022 5:09:00 PM	65989
Toluene	ND	0.049		mg/Kg	1	3/9/2022 5:09:00 PM	65989
Ethylbenzene	ND	0.049		mg/Kg	1	3/9/2022 5:09:00 PM	65989
Xylenes, Total	ND	0.099		mg/Kg	1	3/9/2022 5:09:00 PM	65989
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/9/2022 5:09:00 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-29
Project: Copelen Federal 1
Collection Date: 3/2/2022 1:53:00 PM
Lab ID: 2203352-004 **Matrix:** SOIL **Received Date:** 3/4/2022 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: **TOM**	
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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-7/7
Project: Copelen Federal 1
Collection Date: 3/2/2022 2:22:00 PM
Lab ID: 2203352-005 **Matrix:** SOIL **Received Date:** 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	2800	150		mg/Kg	50	3/11/2022 2:13:48 PM	66100
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/9/2022 8:20:29 AM	65995
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/9/2022 8:20:29 AM	65995
Surr: DNOP	70.5	51.1-141		%Rec	1	3/9/2022 8:20:29 AM	65995
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/9/2022 5:50:00 PM	65989
Surr: BFB	110	70-130		%Rec	1	3/9/2022 5:50:00 PM	65989
EPA METHOD 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
Ethylbenzene	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-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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-7/10
Project: Copelen Federal 1 **Collection Date:** 3/2/2022 2:35:00 PM
Lab ID: 2203352-006 **Matrix:** SOIL **Received Date:** 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
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 ORGANICS						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-20/0
Project: Copelen Federal 1 **Collection Date:** 3/2/2022 2:50:00 PM
Lab ID: 2203352-007 **Matrix:** SOIL **Received Date:** 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	3/11/2022 1:45:17 AM	66100
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-20/4
Project: Copelen Federal 1
Collection Date: 3/2/2022 3:00:00 PM
Lab ID: 2203352-008 **Matrix:** SOIL **Received Date:** 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	61		mg/Kg	20	3/11/2022 1:57:41 AM	66100
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/9/2022 8:52:28 AM	65995
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/9/2022 8:52:28 AM	65995
Surr: DNOP	82.5	51.1-141		%Rec	1	3/9/2022 8:52:28 AM	65995
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/9/2022 6:50:00 PM	65989
Surr: BFB	105	70-130		%Rec	1	3/9/2022 6:50:00 PM	65989
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	3/9/2022 6:50:00 PM	65989
Toluene	ND	0.049		mg/Kg	1	3/9/2022 6:50:00 PM	65989
Ethylbenzene	ND	0.049		mg/Kg	1	3/9/2022 6:50:00 PM	65989
Xylenes, Total	ND	0.099		mg/Kg	1	3/9/2022 6:50:00 PM	65989
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/9/2022 6:50:00 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-21/1
Project: Copelen Federal 1 **Collection Date:** 3/2/2022 3:20:00 PM
Lab ID: 2203352-009 **Matrix:** SOIL **Received Date:** 3/4/2022 8:00:00 AM

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

Analytical Report
Lab Order **2203352**
Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-22/0
Project: Copelen Federal 1 **Collection Date:** 3/2/2022 3:25:00 PM
Lab ID: 2203352-010 **Matrix:** SOIL **Received Date:** 3/4/2022 8:00:00 AM

Analyses	Result	RL	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 ORGANICS						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

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203352**

16-Mar-22

Client: EOG

Project: Copelen Federal 1

Sample ID: **MB-66100**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66100**	RunNo: **86387**							
Prep Date: **3/10/2022**	Analysis Date: **3/10/2022**	SeqNo: **3047846**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66100**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66100**	RunNo: **86387**							
Prep Date: **3/10/2022**	Analysis Date: **3/10/2022**	SeqNo: **3047847**	Units: **mg/Kg**						
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**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66099**	RunNo: **86410**							
Prep Date: **3/10/2022**	Analysis Date: **3/10/2022**	SeqNo: **3048309**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66099**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66099**	RunNo: **86410**							
Prep Date: **3/10/2022**	Analysis Date: **3/10/2022**	SeqNo: **3048310**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203352**

16-Mar-22

Client: EOG

Project: Copelen 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: **86364**
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
Diesel Range Organics (DRO)	49	10	50.00	0	97.3	68.9	135			
Surr: DNOP	4.6		5.000		92.9	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203352**

16-Mar-22

Client: EOG

Project: Copelen Federal 1

Sample ID: **LCS-66042**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **66042**	RunNo: **86364**							
Prep Date: **3/8/2022**	Analysis Date: **3/9/2022**	SeqNo: **3045937**	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-66050**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **66050**	RunNo: **86373**							
Prep Date: **3/9/2022**	Analysis Date: **3/10/2022**	SeqNo: **3047399**	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**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **66050**	RunNo: **86373**							
Prep Date: **3/9/2022**	Analysis Date: **3/10/2022**	SeqNo: **3047414**	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203352**

16-Mar-22

Client: EOG

Project: Copelen Federal 1

Sample ID: **lcs-65989**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **65989**	RunNo: **86374**
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046245** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	78.6	131			
Surr: BFB	1200		1000		116	70	130			

Sample ID: **mb-65989**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **65989**	RunNo: **86374**
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046246** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: **lcs-65994**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **65994**	RunNo: **86374**
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046269** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1200		1000		119	70	130			

Sample ID: **mb-65994**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **65994**	RunNo: **86374**
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046270** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203352**

16-Mar-22

Client: EOG

Project: Copelen Federal 1

Sample ID: **lcs-65989**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65989**	RunNo: **86374**
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046298** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.9	70	130			

Sample ID: **mb-65989**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65989**	RunNo: **86374**
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046299** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	70	130			

Sample ID: **lcs-65994**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65994**	RunNo: **86374**
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046322** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.95	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**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65994**	RunNo: **86374**
Prep Date: **3/7/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046323** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.9	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

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2203352 | RcptNo: 1

Received By: Cheyenne Cason 3/4/2022 8:00:00 AM

Completed By: Sean Livingston 3/4/2022 3:59:53 PM

Reviewed By: JA 3-4-22

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: SOL 3/4/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good				

Chain-of-Custody Record

Client: EOG / Ranger

Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☒ Rush 5 Day

Project Name: Copelen Federal #1

Project #: 5375

Project Manager: Will Kerndorf

Sampler: Will Kennedy

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.9-0.2=4.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2203352	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/2/22		soil	TH 23/4	903 jar	ice	-001	X	X					X			
"		"	TH 23/2	"	"	-002	"	"					"			
"		"	TH-28	"	"	-003	"	"					"			
"		"	TH-29	"	"	-004	"	"					"			
"		"	TH 7-7	"	"	-005	"	"					"			
"		"	TH 7-10	"	"	-006	"	"					"			
"		"	TH 20/0	"	"	-007	"	"					"			
"		"	TH 21/1	"	"	-009	"	"					"			
"		"	TH 22/0	"	"	-010	"	"					"			
			TH 20/4 DAD 3.11.22			-008										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			CCummings		3/3/22	
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			CMC	courier	3/4/22	08:00

Remarks: updated COC received 3/11/22 DAD 3/11/22

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.

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

Form C-141
Page 5

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
☒ 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

email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Robert Hamlet Date: 10/25/2022

☐ Approved ☒ Approved with Attached 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

Action 118037

CONDITIONS

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

CONDITIONS

Created By	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