RANGER
ENVIRONMENTAL SERVICES, INC.

SITE CHARACTERIZATION AND PROPOSED REMEDIATION PLAN

MOBIL CI #12 (FLOWLINE TIE IN)
UNIT H, SECTION 16, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.69017, -104.51728
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

DECEMBER 6, 2021

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

William Kierdorf, REM
Project Manager

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1.0 SITE LOCATION AND BACKGROUND

The Mobil CI #12 Flowline Tie In (Site) is an active oil and gas well flowline location located on private land, approximately 12.5 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit H, Section 16, T19S-R25E at GPS coordinates 32.69017, -104.51728.

An area of a concern was reported to EOG Resources Inc. (EOG) by representatives of the surface property owner, Howell Ranch Revocable Trust (Howell Ranch). The reported area was noted to be in the vicinity of a flowline tie in and was lacking vegetation cover.

EOG has engaged Ranger Environmental Services, Inc. (Ranger) to assist in the assessment and remediation efforts at the Site. On August 31, 2021, Ranger personnel conducted an assessment of the reported area which included the collection of soil samples for laboratory analysis. Due to the observed size of the potential release area, the area was reported to the New Mexico Oil Conservation Division (NMOCD) on September 17, 2021 (NMOCD Incident # nAPP2126062202).

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, water well information within a half-mile of the Site is limited. One well identified on the NMOSE database (RA 05286-(2A)) was plotted within a half-mile of the site. However, based on field reconnaissance it appears that the well location information is incorrect as no well was located in the reported area. Based on the available information, depth-to-groundwater in the area of the Site is believed to be greater than 100 feet.

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

2.2 Wellhead Protection Area

Based upon the USGS and NMOSE information, and the field reconnaissance survey, no water wells were identified within a half-mile of the Site.

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 Sample Results and Closure Criteria

Based upon the Site characterization details, and per NMAC 19.15.29.12, the Site will be remediated to Table 1 19.15.29.12 NMAC (groundwater ≤50 feet) criteria. Additionally, the remediation activities were conducted to bring the area into compliance with the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC. The proposed closure criteria are detailed below:

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

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

3.0 SITE ASSESSMENT

3.1 August 31, 2021 – Initial Site Assessment

On August 31, 2021, Ranger personnel and representatives for EOG mobilized to the Site to conduct assessment activities. To assess conditions of the reported area of concern, a total of six test excavations/sample points were completed ("TH-1" through "TH-6").

At the time of 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 to assist in evaluating the soil conditions and/or levels of impact in the area. Field screening of the encountered soils was conducted at the surface and at one foot increments to the total test excavation depth. The test excavations were completed to depths where field readings indicated that soil conditions were within the most stringent Table 1 Criteria, or to the maximum depth of the on-site equipment.

The initial test excavation location ("TH-1") was completed in the approximate midpoint of the reported area of concern. Based on the observed field chloride readings, the excavation was completed to approximately 14 feet bgs (the maximum extent of the on-site equipment). Test excavations "TH-2" through "TH-5" were subsequently completed in each cardinal direction moving outward from the "TH-1" location to assist in delineating the elevated field chloride readings. During the installation of test excavation "TH-5", which was located north of the "TH-1" location, elevated field chloride readings were still found to be present. Therefore, an additional test excavation ("TH-6") was installed further to the north. Due to the proximity of the "TH-6" test excavation to a caliche ranch road, the depth of this test excavation was limited to one-foot bgs for safety purposes. However, no elevated field chloride readings were obtained in this test excavation.

As summarized above, during the test excavation installation process, field chloride titrations indicated that elevated soil chloride concentrations were present in test excavations TH-1 and TH-5. However, none of the test excavation soils were found to contain discoloration or elevated OVM readings.

Soil samples were subsequently collected for laboratory analysis from each test excavation at various depth intervals to confirm the results of the field screening activities and to delineate the elevated chloride concentrations. A total of 17 soil samples were collected for laboratory analysis. Upon collection, the soil samples were submitted to Hall Environmental 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.

A site map depicting the test excavation/sample locations is attached.

3.2 Sample Results

Upon review of the soil sample analytical results, soils in both the "TH-1" and "TH-5" locations were documented to contain chloride concentrations in exceedance of the Table 1 Criteria. The remaining soil samples were documented to contain chloride concentrations below the applicable Table 1 and Reclamation regulatory criteria. All samples collected during the August 31, 2021 site assessment activities were documented to have nondetectable BTEX and TPH concentrations.

The soil sample analytical results are summarized in the attached soil analytical table. A copy of the laboratory analytical report is also attached.

4.0 PROPOSED REMEDIATION PLAN

4.1 Soil Excavation and Confirmation Sampling

To address the elevated soil chloride concentrations at the Site, soil excavation is proposed. Based on the samples collected during the assessment activities, soil excavation activities will be completed to boundaries and depths anticipated to be within the applicable regulatory criteria. The initial proposed excavation area is anticipated to have maximum dimensions of approximately 40 feet long by 30 feet wide and will be completed to a depth of approximately 15 feet bgs. A site map depicting the proposed excavation area is attached.

During the remedial excavation activities, Ranger personnel will utilize an OVM and field chloride titration kit to guide the excavation process and determine when all affected soils appear to have been removed. Based on the field readings, the excavation boundaries will be adjusted as necessary. At such point in time that the field screening activities indicate that all affected soils appear to have been removed, cleanup confirmation soil samples will be collected for laboratory analysis. The samples will be collected 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 sample parts 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.

Based on the cleanup confirmation soil sample results, if any area is found to remain in exceedance of the applicable regulatory criteria, the area will be further over excavated and additional cleanup confirmation soil samples will be collected 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 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.

Based on the proposed excavation boundaries and depths, it is anticipated that approximately 700 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 Site Backfill and Reclamation

Upon attainment of the 19.15.29.13 NMAC Reclamation Criteria and Restoration 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. The excavated areas on the caliche ranch road will be backfilled from surface to two feet bgs with fill material of a similar type to that which was removed. The remaining two feet will be completed with caliche road material to restore the caliche ranch road to pre-remedial activity conditions. The areas located to the south of the caliche will then be re-vegetated with the James H & Betty R Howell Revocable Trust Seed Mix.

4.5 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	nAPP2126062202
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # *(assigned by OCD)* nAPP2126062202
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.69017 Longitude -104.51728
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Mobil CI Federal #12	Site Type Flowline
Date Release Discovered 09/09/2021	API# *(if applicable)* 30-015-23990

Unit Letter	Section	Township	Range	County
I	6	19S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☑ Private (*Name:* Howell Revocable Trust)

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: Historical impacts discovered along the flowline, no release volume is known or can be calculated. The environmental consultant investigating the impacted area determined on 09/09/2021 that due to the size of the impacted area footprint, that it most likely crossed the threshold for being a reportable quantity.

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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: 09/17/2021
email: Chase_Settle@eogresources.com
Telephone: 575-748-1471

OCD Only

Received by: Ramona Marcus
Date: 9/20/2021

State of New Mexico
Oil Conservation Division

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **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.

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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: _____

State of New Mexico
Oil Conservation Division

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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: _____ 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:	OGRID:
EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	7377
	Action Number: 49919
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	9/20/2021

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100’ (ft bgs)
Did this release impact groundwater or surface water?	☐ 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.

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 12/8/2021

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2126062202
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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.

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Printed Name: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 12/8/2021

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

OCD Only

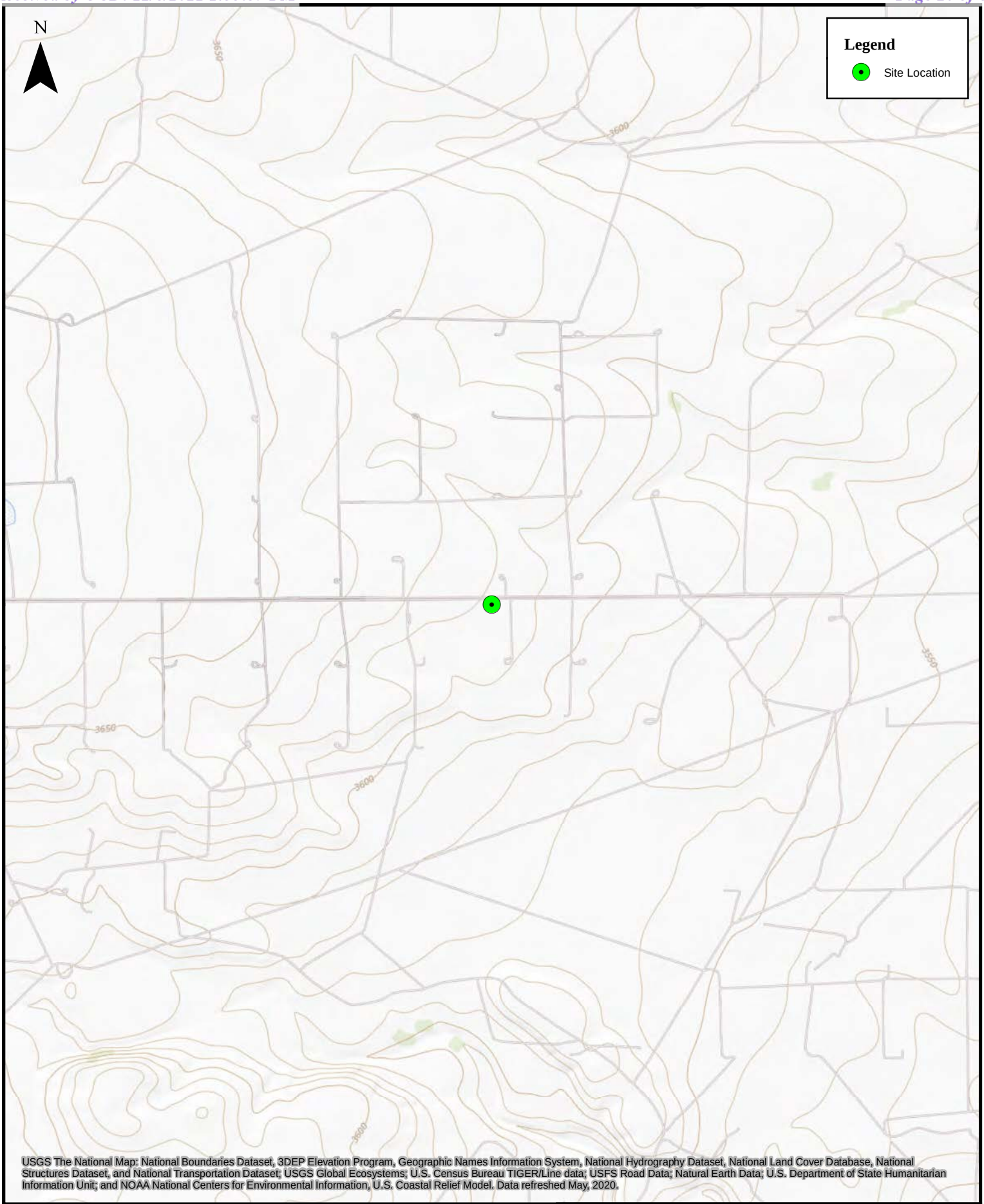
Received by: _____ Date: _____

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

Signature: Jennifer Nobui Date: 01/26/2022

FIGURES

Topographic Map
Area Map
Water Well Location Map
National Wetland Inventory Map
FEMA Floodplain Map
Karst Topography Map
Sample Location Map (08/31/2021)
Proposed Excavation Map



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

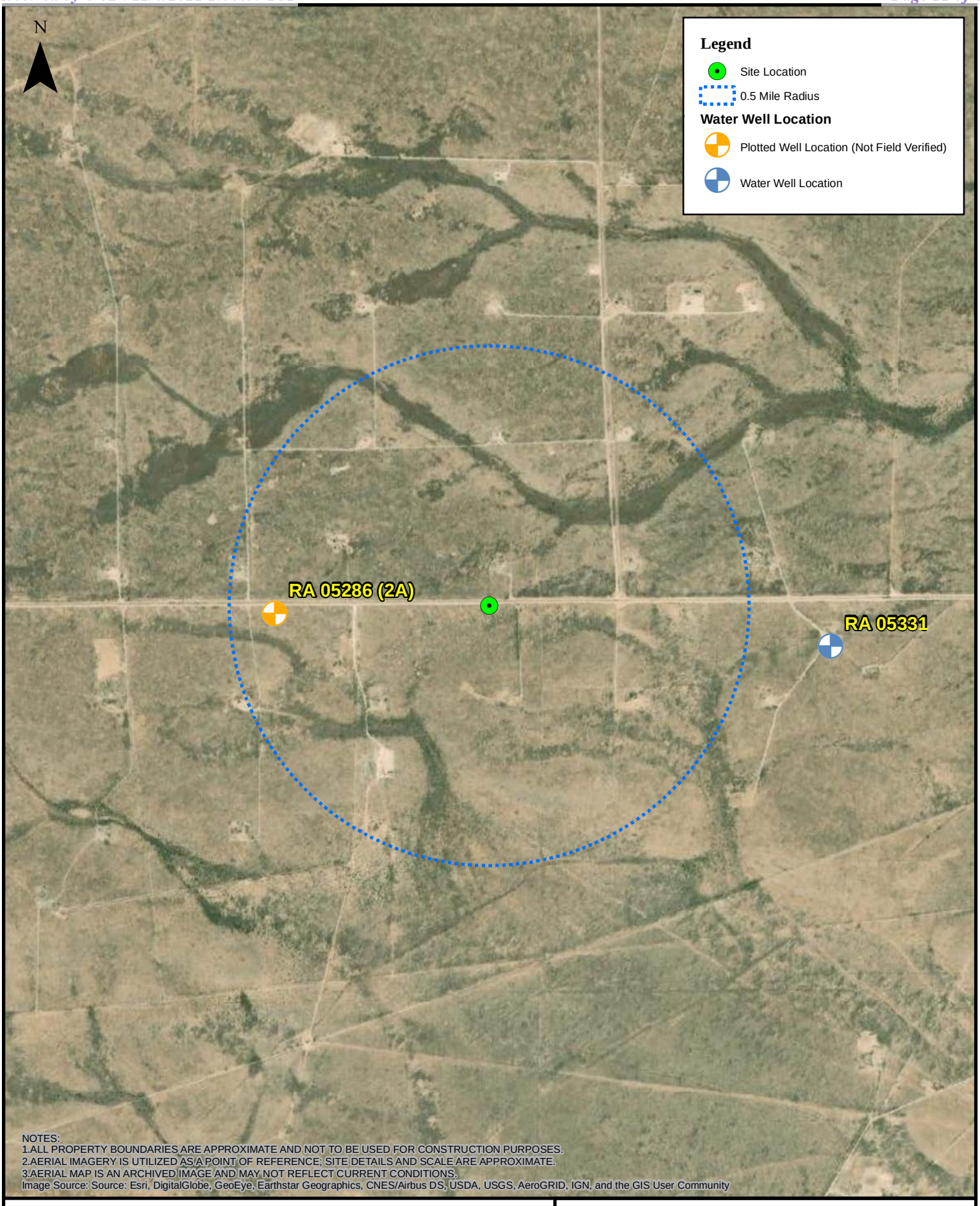
Topographic Map
Mobil CI #12 (Flowline Tie In)
EOG Resources, Inc.

RANGER ENVIRONMENTAL SERVICES, INC.

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

1:10,000

Area Map
Mobil CI #12 (Flowline Tie In)
EOG Resources, Inc.



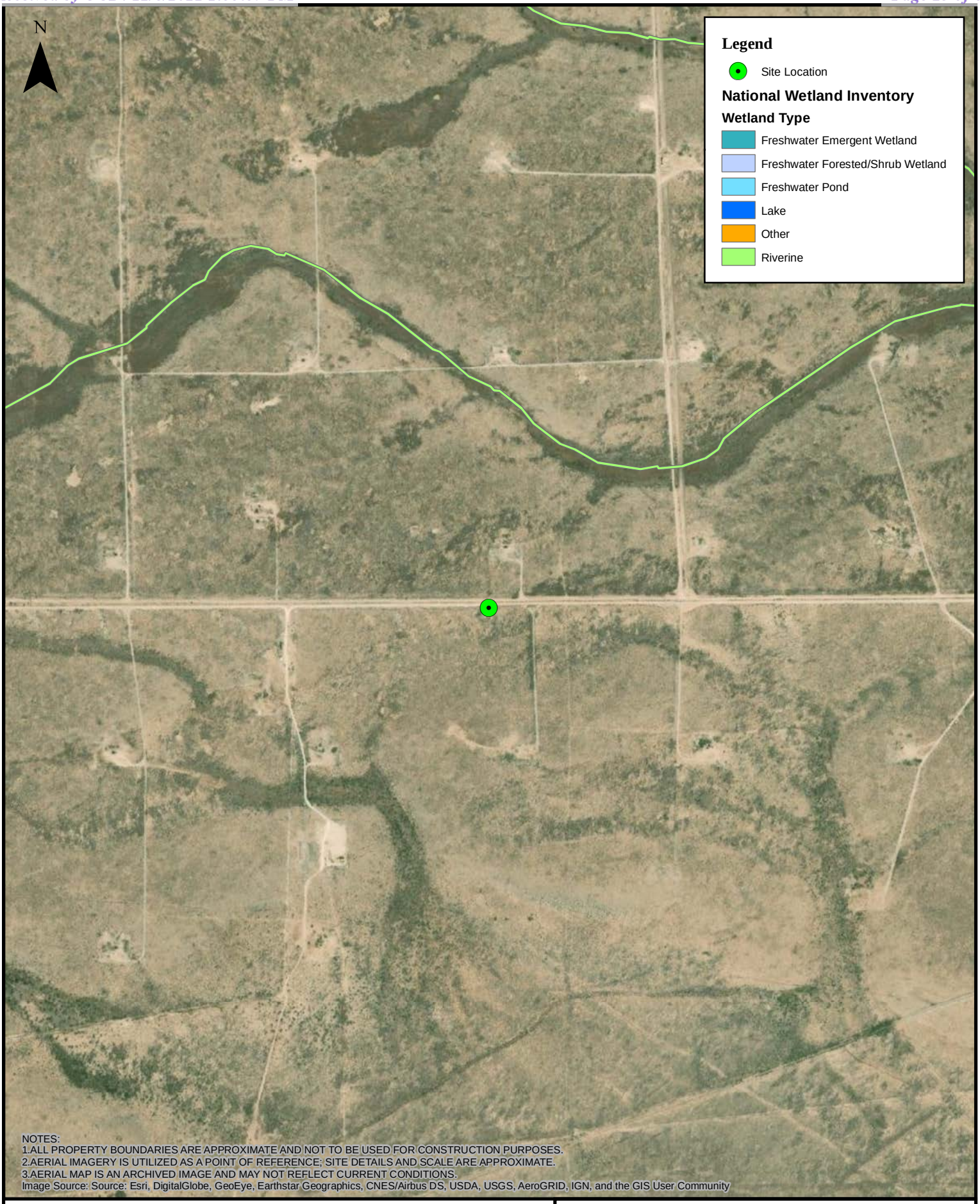
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RANGER ENVIRONMENTAL SERVICES, INC.

0 375 750 1,500 2,250 3,000 Feet

1:15,000

Water Well Location Map
Mobil CI #12 (Flowline Tie In)
EOG Resources, Inc.



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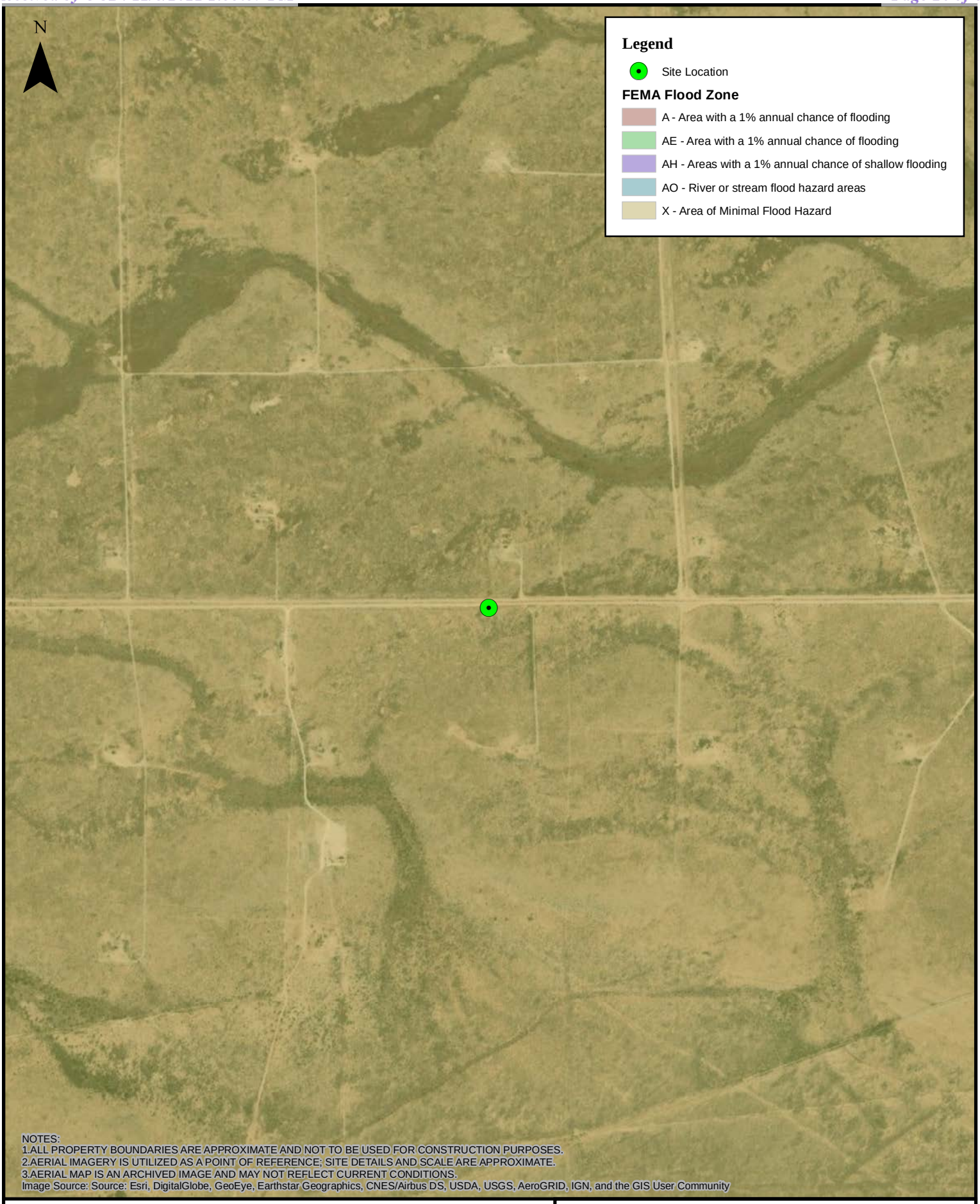
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RANGER ENVIRONMENTAL SERVICES, INC.

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

1:10,000

National Wetland Inventory Map
Mobil CI #12 (Flowline Tie In)
EOG Resources, Inc.



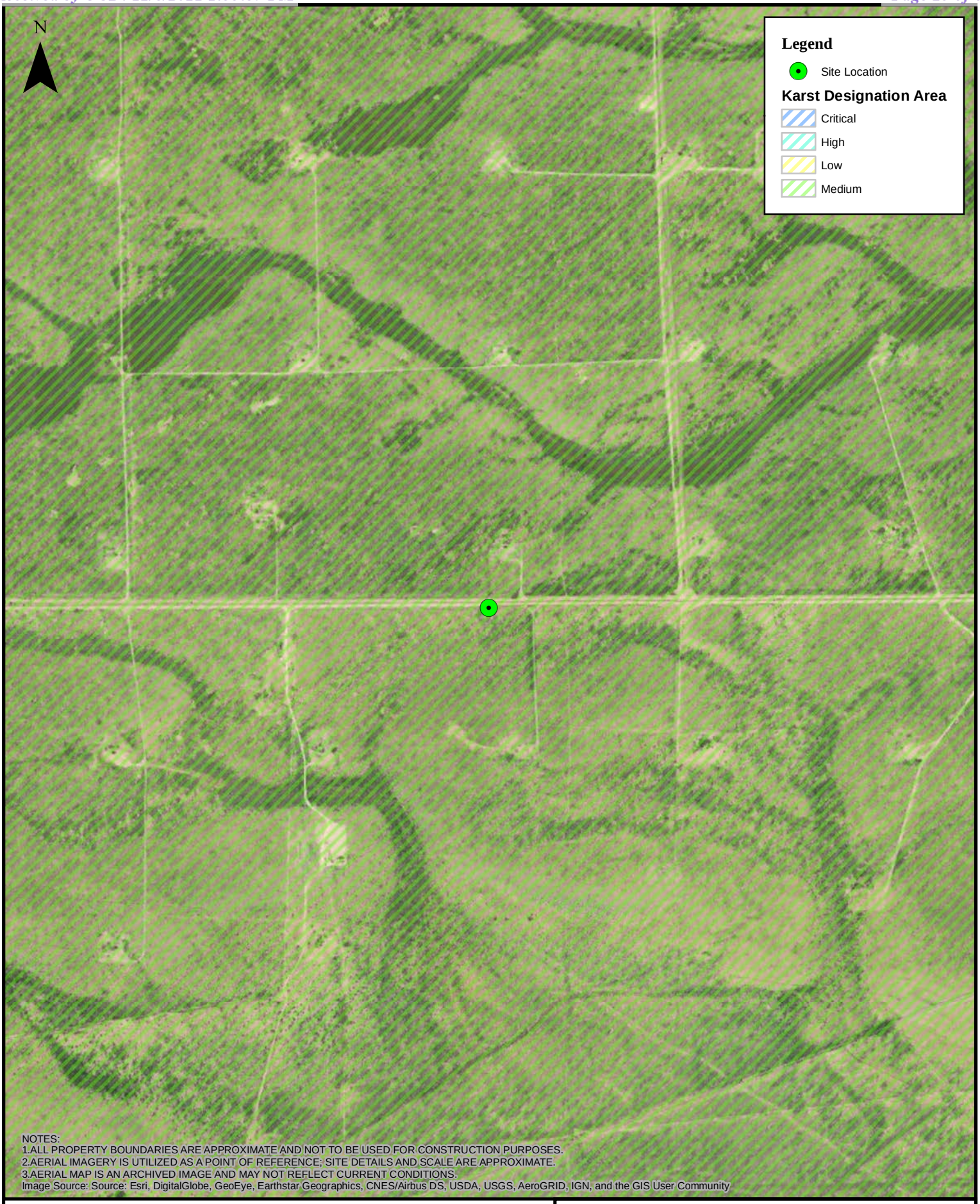
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Source: Esri, DigitalGlobe, 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

FEMA Floodplain Map
Mobil CI #12 (Flowline Tie In)
EOG Resources, Inc.



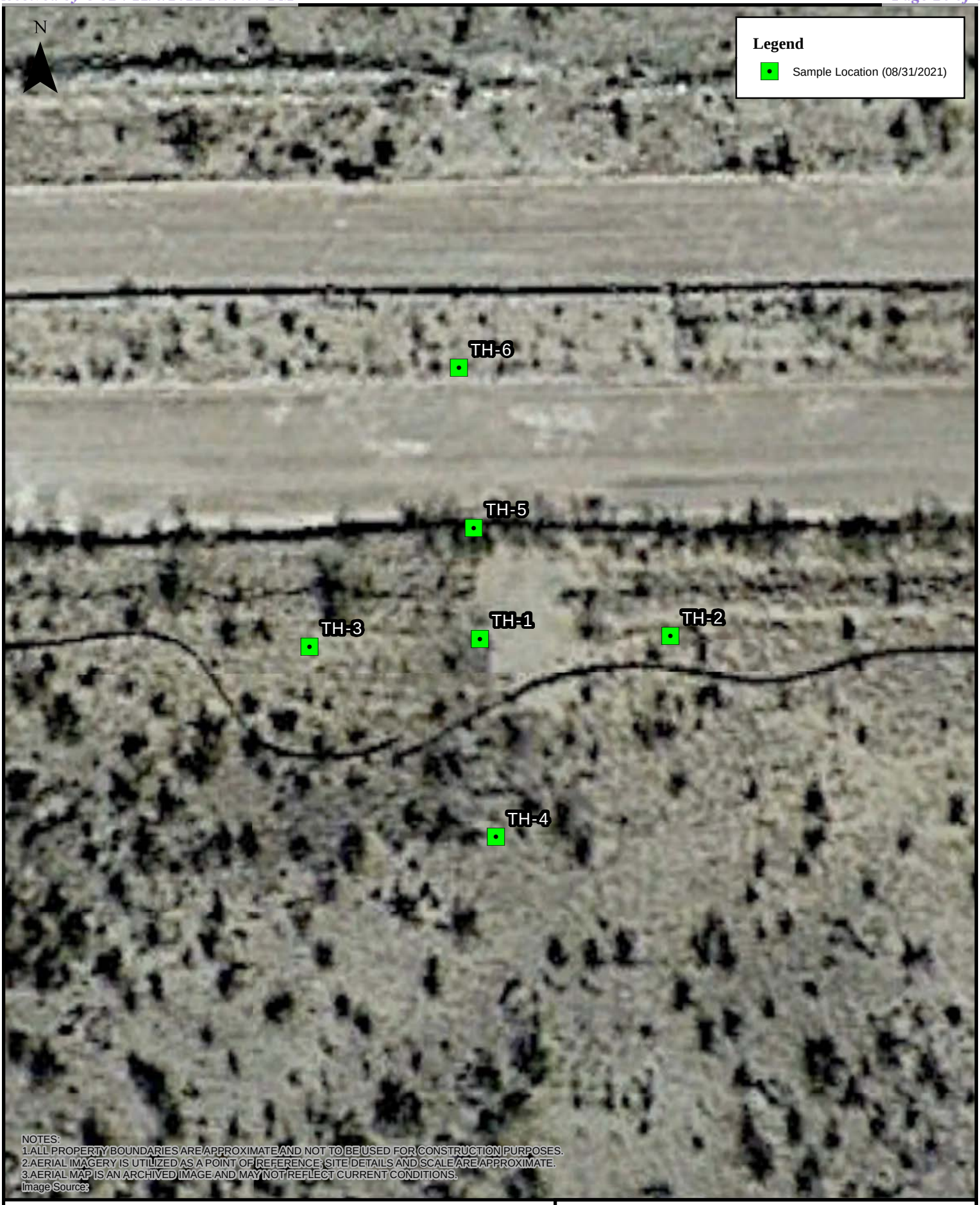
NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Source: Esri, DigitalGlobe, 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

Karst Topography Map
Mobil CI #12 (Flowline Tie In)
EOG Resources, Inc.



RANGER ENVIRONMENTAL SERVICES, INC.

0 5 10 20 30 40 Feet

1:200

Sample Location Map (08/31/2021)
Mobil CI #12 (Flowline Tie In)
EOG Resources, Inc.

Proposed Excavation Map
Mobil CI #12 (Flowline Tie In)
EOG Resources, Inc.

TABLES

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

SOIL BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
EOG RESOURCES, INC.
MOBIL CI #12 (FLOWLINE TIE IN)

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
Initial Site Assessment (08/31/2021)													
TH-1/2'	8/31/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<10	<50	<10	<50	**720**
TH-1/5'	8/31/2021	5'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.8	<49	<9.8	<49	**1,400**
TH-1/14'	8/31/2021	14'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<9.3	<47	<9.3	<47	**640**
TH-2/Surface	8/31/2021	0'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.5	<48	<9.5	<48	<60
TH-2/2'	8/31/2021	2'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.4	<47	<9.4	<47	310
TH-2/5'	8/31/2021	5'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.9	<50	<9.9	<50	120
TH-3/Surface	8/31/2021	0'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.5	<47	<9.5	<47	<60
TH-3/2'	8/31/2021	2'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.3	<47	<9.3	<47	150
TH-3/5'	8/31/2021	5'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.8	<49	<9.8	<49	80
TH-4/Surface	8/31/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	<60
TH-4/2'	8/31/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<10	<50	<10	<50	<60
TH-4/5'	8/31/2021	5'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<9.3	<47	<9.3	<47	200
TH-5/2'	8/31/2021	2'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.8	<49	<9.8	<49	<60
TH-5/5'	8/31/2021	5'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.7	<48	<9.7	<48	**1,200**
TH-5/8'	8/31/2021	8'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.4	<47	<9.4	<47	**670**
TH-6/Surface	8/31/2021	0'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.1	<45	<9.1	<45	<60
TH-6/1'	8/31/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.9	<50	<9.9	<50	<60
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤ 50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)													**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

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	RA 05286 (2A)				06	19S	25E	544587	3617042*

Driller License: **Driller Company:**

Driller Name:

Drill Start Date: **Drill Finish Date:** **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** **Depth Water:**

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

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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 view of the assessment activities on August 31, 2021 in the vicinity of test excavation "TH-3". The view is towards the southwest.
(Approximate GPS: 32.690224, -104.517336)

PHOTOGRAPH NO. 2 – A view of the assessment activities on August 31, 2021 in the vicinity of test excavation "TH-5". The view is towards the west.
(Approximate GPS: 32.690210, -104.517273)

ATTACHMENT 3 – LABORATORY ANALYTICAL REPORTS

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

September 08, 2021

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

RE: Mobil Cl 12 Tie In OrderNo.: 2109085

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 17 sample(s) on 9/2/2021 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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-1/2'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 1:01:00 PM
Lab ID: 2109085-001 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	720	60		mg/Kg	20	9/4/2021 12:15:46 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/4/2021 10:10:07 AM	62383
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/4/2021 10:10:07 AM	62383
Surr: DNOP	106	70-130		%Rec	1	9/4/2021 10:10:07 AM	62383
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/3/2021 6:00:56 PM	62360
Surr: BFB	114	70-130		%Rec	1	9/3/2021 6:00:56 PM	62360
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	9/3/2021 6:00:56 PM	62360
Toluene	ND	0.050		mg/Kg	1	9/3/2021 6:00:56 PM	62360
Ethylbenzene	ND	0.050		mg/Kg	1	9/3/2021 6:00:56 PM	62360
Xylenes, Total	ND	0.099		mg/Kg	1	9/3/2021 6:00:56 PM	62360
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	9/3/2021 6:00:56 PM	62360

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-1/5'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 1:07:00 PM
Lab ID: 2109085-002 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1400	61		mg/Kg	20	9/4/2021 12:28:11 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **CLP**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/4/2021 10:38:55 AM	62383
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/4/2021 10:38:55 AM	62383
Surr: DNOP	126	70-130		%Rec	1	9/4/2021 10:38:55 AM	62383
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/3/2021 6:24:35 PM	62360
Surr: BFB	114	70-130		%Rec	1	9/3/2021 6:24:35 PM	62360
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/3/2021 6:24:35 PM	62360
Toluene	ND	0.047		mg/Kg	1	9/3/2021 6:24:35 PM	62360
Ethylbenzene	ND	0.047		mg/Kg	1	9/3/2021 6:24:35 PM	62360
Xylenes, Total	ND	0.095		mg/Kg	1	9/3/2021 6:24:35 PM	62360
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	9/3/2021 6:24:35 PM	62360

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-1/14'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 1:22:00 PM
Lab ID: 2109085-003 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	640	60		mg/Kg	20	9/4/2021 12:40:35 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/3/2021 2:01:21 PM	62374
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/3/2021 2:01:21 PM	62374
Surr: DNOP	111	70-130		%Rec	1	9/3/2021 2:01:21 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/3/2021 12:43:00 PM	62369
Surr: BFB	94.2	70-130		%Rec	1	9/3/2021 12:43:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	9/3/2021 12:43:00 PM	62369
Toluene	ND	0.047		mg/Kg	1	9/3/2021 12:43:00 PM	62369
Ethylbenzene	ND	0.047		mg/Kg	1	9/3/2021 12:43:00 PM	62369
Xylenes, Total	ND	0.094		mg/Kg	1	9/3/2021 12:43:00 PM	62369
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	9/3/2021 12:43:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-2/Surface
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 1:48:00 PM
Lab ID: 2109085-004 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	9/4/2021 1:17:48 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/3/2021 2:11:13 PM	62374
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/3/2021 2:11:13 PM	62374
Surr: DNOP	94.1	70-130		%Rec	1	9/3/2021 2:11:13 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/3/2021 1:43:00 PM	62369
Surr: BFB	94.7	70-130		%Rec	1	9/3/2021 1:43:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.023		mg/Kg	1	9/3/2021 1:43:00 PM	62369
Toluene	ND	0.046		mg/Kg	1	9/3/2021 1:43:00 PM	62369
Ethylbenzene	ND	0.046		mg/Kg	1	9/3/2021 1:43:00 PM	62369
Xylenes, Total	ND	0.092		mg/Kg	1	9/3/2021 1:43:00 PM	62369
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	9/3/2021 1:43:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-2/2'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 1:51:00 PM
Lab ID: 2109085-005 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	310	60		mg/Kg	20	9/4/2021 1:30:12 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/3/2021 2:21:05 PM	62374
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/3/2021 2:21:05 PM	62374
Surr: DNOP	74.2	70-130		%Rec	1	9/3/2021 2:21:05 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/3/2021 2:43:00 PM	62369
Surr: BFB	92.3	70-130		%Rec	1	9/3/2021 2:43:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	9/3/2021 2:43:00 PM	62369
Toluene	ND	0.048		mg/Kg	1	9/3/2021 2:43:00 PM	62369
Ethylbenzene	ND	0.048		mg/Kg	1	9/3/2021 2:43:00 PM	62369
Xylenes, Total	ND	0.097		mg/Kg	1	9/3/2021 2:43:00 PM	62369
Surr: 4-Bromofluorobenzene	79.8	70-130		%Rec	1	9/3/2021 2:43:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-2/5'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 1:56:00 PM
Lab ID: 2109085-006 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	120	60		mg/Kg	20	9/4/2021 1:42:37 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/3/2021 2:30:57 PM	62374
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/3/2021 2:30:57 PM	62374
Surr: DNOP	80.6	70-130		%Rec	1	9/3/2021 2:30:57 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/3/2021 3:03:00 PM	62369
Surr: BFB	94.4	70-130		%Rec	1	9/3/2021 3:03:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	9/3/2021 3:03:00 PM	62369
Toluene	ND	0.050		mg/Kg	1	9/3/2021 3:03:00 PM	62369
Ethylbenzene	ND	0.050		mg/Kg	1	9/3/2021 3:03:00 PM	62369
Xylenes, Total	ND	0.099		mg/Kg	1	9/3/2021 3:03:00 PM	62369
Surr: 4-Bromofluorobenzene	81.2	70-130		%Rec	1	9/3/2021 3:03:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-3/Surface
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 2:05:00 PM
Lab ID: 2109085-007 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	9/4/2021 1:55:01 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/3/2021 2:40:47 PM	62374
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/3/2021 2:40:47 PM	62374
Surr: DNOP	85.2	70-130		%Rec	1	9/3/2021 2:40:47 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/3/2021 4:03:00 PM	62369
Surr: BFB	92.7	70-130		%Rec	1	9/3/2021 4:03:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	9/3/2021 4:03:00 PM	62369
Toluene	ND	0.046		mg/Kg	1	9/3/2021 4:03:00 PM	62369
Ethylbenzene	ND	0.046		mg/Kg	1	9/3/2021 4:03:00 PM	62369
Xylenes, Total	ND	0.093		mg/Kg	1	9/3/2021 4:03:00 PM	62369
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	9/3/2021 4:03:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-3/2'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 2:09:00 PM
Lab ID: 2109085-008 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	150	61		mg/Kg	20	9/4/2021 2:07:25 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/3/2021 2:50:37 PM	62374
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/3/2021 2:50:37 PM	62374
Surr: DNOP	89.7	70-130		%Rec	1	9/3/2021 2:50:37 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/3/2021 4:24:00 PM	62369
Surr: BFB	91.6	70-130		%Rec	1	9/3/2021 4:24:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	9/3/2021 4:24:00 PM	62369
Toluene	ND	0.048		mg/Kg	1	9/3/2021 4:24:00 PM	62369
Ethylbenzene	ND	0.048		mg/Kg	1	9/3/2021 4:24:00 PM	62369
Xylenes, Total	ND	0.097		mg/Kg	1	9/3/2021 4:24:00 PM	62369
Surr: 4-Bromofluorobenzene	80.3	70-130		%Rec	1	9/3/2021 4:24:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-3/5'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 2:13:00 PM
Lab ID: 2109085-009 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	80	60		mg/Kg	20	9/4/2021 2:19:50 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/3/2021 3:00:27 PM	62374
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/3/2021 3:00:27 PM	62374
Surr: DNOP	79.1	70-130		%Rec	1	9/3/2021 3:00:27 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/3/2021 4:44:00 PM	62369
Surr: BFB	90.0	70-130		%Rec	1	9/3/2021 4:44:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	9/3/2021 4:44:00 PM	62369
Toluene	ND	0.047		mg/Kg	1	9/3/2021 4:44:00 PM	62369
Ethylbenzene	ND	0.047		mg/Kg	1	9/3/2021 4:44:00 PM	62369
Xylenes, Total	ND	0.095		mg/Kg	1	9/3/2021 4:44:00 PM	62369
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	9/3/2021 4:44:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-4/Surface
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 2:22:00 PM
Lab ID: 2109085-010 **Matrix:** SOIL
Received Date: 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	9/4/2021 2:32:14 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/3/2021 3:10:18 PM	62374
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/3/2021 3:10:18 PM	62374
Surr: DNOP	83.1	70-130		%Rec	1	9/3/2021 3:10:18 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/3/2021 5:04:00 PM	62369
Surr: BFB	93.3	70-130		%Rec	1	9/3/2021 5:04:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	9/3/2021 5:04:00 PM	62369
Toluene	ND	0.050		mg/Kg	1	9/3/2021 5:04:00 PM	62369
Ethylbenzene	ND	0.050		mg/Kg	1	9/3/2021 5:04:00 PM	62369
Xylenes, Total	ND	0.10		mg/Kg	1	9/3/2021 5:04:00 PM	62369
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	9/3/2021 5:04:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-4/2'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 2:25:00 PM
Lab ID: 2109085-011 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	9/4/2021 2:44:38 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/3/2021 3:20:07 PM	62374
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/3/2021 3:20:07 PM	62374
Surr: DNOP	79.6	70-130		%Rec	1	9/3/2021 3:20:07 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/3/2021 5:24:00 PM	62369
Surr: BFB	89.7	70-130		%Rec	1	9/3/2021 5:24:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	9/3/2021 5:24:00 PM	62369
Toluene	ND	0.048		mg/Kg	1	9/3/2021 5:24:00 PM	62369
Ethylbenzene	ND	0.048		mg/Kg	1	9/3/2021 5:24:00 PM	62369
Xylenes, Total	ND	0.096		mg/Kg	1	9/3/2021 5:24:00 PM	62369
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	9/3/2021 5:24:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-4/5'
Project: Mobil Cl 12 Tie In **Collection Date:** 8/31/2021 2:30:00 PM
Lab ID: 2109085-012 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	200	60		mg/Kg	20	9/4/2021 2:57:03 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/3/2021 3:29:55 PM	62374
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/3/2021 3:29:55 PM	62374
Surr: DNOP	82.0	70-130		%Rec	1	9/3/2021 3:29:55 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/3/2021 5:44:00 PM	62369
Surr: BFB	91.0	70-130		%Rec	1	9/3/2021 5:44:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	9/3/2021 5:44:00 PM	62369
Toluene	ND	0.047		mg/Kg	1	9/3/2021 5:44:00 PM	62369
Ethylbenzene	ND	0.047		mg/Kg	1	9/3/2021 5:44:00 PM	62369
Xylenes, Total	ND	0.093		mg/Kg	1	9/3/2021 5:44:00 PM	62369
Surr: 4-Bromofluorobenzene	79.9	70-130		%Rec	1	9/3/2021 5:44:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-5/2'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 2:48:00 PM
Lab ID: 2109085-013 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	9/4/2021 3:09:27 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/4/2021 10:47:28 AM	62374
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/4/2021 10:47:28 AM	62374
Surr: DNOP	78.3	70-130		%Rec	1	9/4/2021 10:47:28 AM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/3/2021 6:04:00 PM	62369
Surr: BFB	88.9	70-130		%Rec	1	9/3/2021 6:04:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	9/3/2021 6:04:00 PM	62369
Toluene	ND	0.047		mg/Kg	1	9/3/2021 6:04:00 PM	62369
Ethylbenzene	ND	0.047		mg/Kg	1	9/3/2021 6:04:00 PM	62369
Xylenes, Total	ND	0.095		mg/Kg	1	9/3/2021 6:04:00 PM	62369
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	9/3/2021 6:04:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-5/5'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 2:53:00 PM
Lab ID: 2109085-014 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	1200	60		mg/Kg	20	9/4/2021 3:46:40 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/3/2021 3:49:29 PM	62374
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/3/2021 3:49:29 PM	62374
Surr: DNOP	77.8	70-130		%Rec	1	9/3/2021 3:49:29 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/3/2021 6:24:00 PM	62369
Surr: BFB	88.4	70-130		%Rec	1	9/3/2021 6:24:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.024		mg/Kg	1	9/3/2021 6:24:00 PM	62369
Toluene	ND	0.048		mg/Kg	1	9/3/2021 6:24:00 PM	62369
Ethylbenzene	ND	0.048		mg/Kg	1	9/3/2021 6:24:00 PM	62369
Xylenes, Total	ND	0.097		mg/Kg	1	9/3/2021 6:24:00 PM	62369
Surr: 4-Bromofluorobenzene	78.6	70-130		%Rec	1	9/3/2021 6:24:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-5/8'
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 3:05:00 PM
Lab ID: 2109085-015 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	670	60		mg/Kg	20	9/4/2021 3:59:05 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/4/2021 10:59:33 AM	62374
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/4/2021 10:59:33 AM	62374
Surr: DNOP	71.0	70-130		%Rec	1	9/4/2021 10:59:33 AM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/3/2021 6:44:00 PM	62369
Surr: BFB	90.1	70-130		%Rec	1	9/3/2021 6:44:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	9/3/2021 6:44:00 PM	62369
Toluene	ND	0.046		mg/Kg	1	9/3/2021 6:44:00 PM	62369
Ethylbenzene	ND	0.046		mg/Kg	1	9/3/2021 6:44:00 PM	62369
Xylenes, Total	ND	0.093		mg/Kg	1	9/3/2021 6:44:00 PM	62369
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	9/3/2021 6:44:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: TH-6/Surface
Project: Mobil Cl 12 Tie In
Collection Date: 8/31/2021 3:17:00 PM
Lab ID: 2109085-016 **Matrix:** SOIL
Received Date: 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	9/4/2021 4:11:29 AM	62387
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/3/2021 4:08:56 PM	62374
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/3/2021 4:08:56 PM	62374
Surr: DNOP	70.2	70-130		%Rec	1	9/3/2021 4:08:56 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/3/2021 7:04:00 PM	62369
Surr: BFB	88.7	70-130		%Rec	1	9/3/2021 7:04:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	9/3/2021 7:04:00 PM	62369
Toluene	ND	0.048		mg/Kg	1	9/3/2021 7:04:00 PM	62369
Ethylbenzene	ND	0.048		mg/Kg	1	9/3/2021 7:04:00 PM	62369
Xylenes, Total	ND	0.095		mg/Kg	1	9/3/2021 7:04:00 PM	62369
Surr: 4-Bromofluorobenzene	78.9	70-130		%Rec	1	9/3/2021 7:04:00 PM	62369

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 **2109085**
Date Reported: **9/8/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** TH-6/1'
Project: Mobil Cl 12 Tie In **Collection Date:** 8/31/2021 3:26:00 PM
Lab ID: 2109085-017 **Matrix:** SOIL **Received Date:** 9/2/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	9/7/2021 1:06:54 PM	62409
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/3/2021 4:18:38 PM	62374
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/3/2021 4:18:38 PM	62374
Surr: DNOP	73.3	70-130		%Rec	1	9/3/2021 4:18:38 PM	62374
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/3/2021 8:04:00 PM	62369
Surr: BFB	92.9	70-130		%Rec	1	9/3/2021 8:04:00 PM	62369
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	9/3/2021 8:04:00 PM	62369
Toluene	ND	0.049		mg/Kg	1	9/3/2021 8:04:00 PM	62369
Ethylbenzene	ND	0.049		mg/Kg	1	9/3/2021 8:04:00 PM	62369
Xylenes, Total	ND	0.097		mg/Kg	1	9/3/2021 8:04:00 PM	62369
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	1	9/3/2021 8:04:00 PM	62369

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#: **2109085**

08-Sep-21

Client: EOG

Project: Mobil Cl 12 Tie In

Sample ID: **MB-62387** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **62387** RunNo: **81060**
Prep Date: **9/3/2021** Analysis Date: **9/3/2021** SeqNo: **2861038** Units: **mg/Kg**

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

Sample ID: **LCS-62387** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **62387** RunNo: **81060**
Prep Date: **9/3/2021** Analysis Date: **9/3/2021** SeqNo: **2861039** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Sample ID: **MB-62409** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **62409** RunNo: **81061**
Prep Date: **9/7/2021** Analysis Date: **9/7/2021** SeqNo: **2862361** Units: **mg/Kg**

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

Sample ID: **LCS-62409** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **62409** RunNo: **81061**
Prep Date: **9/7/2021** Analysis Date: **9/7/2021** SeqNo: **2862362** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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#: **2109085**
08-Sep-21

Client: EOG
Project: Mobil Cl 12 Tie In

Sample ID: **MB-62374**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **62374**	RunNo: **81036**
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2860690** 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	11		10.00		114	70	130			

Sample ID: **LCS-62374**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **62374**	RunNo: **81036**
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2860693** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.7	68.9	135			
Surr: DNOP	4.3		5.000		86.0	70	130			

Sample ID: **MB-62383**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **62383**	RunNo: **81056**
Prep Date: **9/3/2021**	Analysis Date: **9/4/2021**	SeqNo: **2860812** 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	11		10.00		107	70	130			

Sample ID: **LCS-62383**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **62383**	RunNo: **81056**
Prep Date: **9/3/2021**	Analysis Date: **9/4/2021**	SeqNo: **2860813** 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	96.7	68.9	135			
Surr: DNOP	5.1		5.000		101	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#: **2109085**
08-Sep-21

Client: EOG
Project: Mobil Cl 12 Tie In

Sample ID: **mb-62360**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **62360**	RunNo: **81062**							
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861079**	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		110	70	130			

Sample ID: **lcs-62360**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **62360**	RunNo: **81062**							
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861080**	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	1200		1000		120	70	130			

Sample ID: **mb-62369**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **62369**	RunNo: **81063**							
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861133**	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	940		1000		93.8	70	130			

Sample ID: **mb-62371**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **62371**	RunNo: **81063**							
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861134**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.3	70	130			

Sample ID: **lcs-62369**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **62369**	RunNo: **81063**							
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861136**	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	113	78.6	131			
Surr: BFB	1100		1000		107	70	130			

Sample ID: **lcs-62371**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **62371**	RunNo: **81063**							
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861137**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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
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#: **2109085**
08-Sep-21

Client: EOG
Project: Mobil Cl 12 Tie In

Sample ID: **mb-62360**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **62360**	RunNo: **81062**
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861106** 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	1.0		1.000		101	70	130			

Sample ID: **LCS-62360**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **62360**	RunNo: **81062**
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861107** 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	93.9	80	120			
Toluene	0.95	0.050	1.000	0	94.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **mb-62369**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **62369**	RunNo: **81063**
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861189** 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	0.83		1.000		83.0	70	130			

Sample ID: **mb-62371**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **62371**	RunNo: **81063**
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861190** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.82		1.000		82.0	70	130			

Sample ID: **lcs-62369**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **62369**	RunNo: **81063**
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861192** Units: **mg/Kg**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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#: **2109085**

08-Sep-21

Client: EOG

Project: Mobil Cl 12 Tie In

Sample ID: **lcs-62369**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **62369**	RunNo: **81063**							
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861192**	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	91.9	80	120			
Toluene	0.93	0.050	1.000	0	93.3	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.2	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		83.1	70	130			

Sample ID: **lcs-62371**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **62371**	RunNo: **81063**							
Prep Date: **9/2/2021**	Analysis Date: **9/3/2021**	SeqNo: **2861193**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.82		1.000		82.0	70	130			

Qualifiers:

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

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: 2109085 | RcptNo: 1

Received By: Cheyenne Cason 9/1/2021 1:25:00 PM

Completed By: Isaiah Ortiz 9/2/2021 8:07:17 AM

Reviewed By: JR 9/2/21

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: KPG 9/2/21 KPG 9/2/21

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	3.8	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** 5 day

Project Name: Mobil CI #12 Tie In

Project #: 5375

Project Manager: W. Kierdorf

Sampler: M. Cook

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.7+0.1=3.8

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. 2109085	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/30/21	1301	Soil	TH-1 / 2'	4oz, 1	None	001	X	X	X
	1307		TH-1 / 5'			002	X	X	X
	1322		TH-1 / 14'			003	X	X	X
	1348		TH-2 / Surface			004	X	X	X
	1351		TH-2 / 2'			005	X	X	X
	1356		TH-2 / 5'			006	X	X	X
	1405		TH-3 / Surface			007	X	X	X
	1409		TH-3 / 2'			008	X	X	X
	1413		TH-3 / 5'			009	X	X	X
	1422		TH-4 / Surface			010	X	X	X
	1425		TH-4 / 2'			011	X	X	X
↓	1430	↓	TH-4 / 5'	↓	↓	012	X	X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/31/21	2012				8/31/21	2012
9/1/21	1325				9/1/21	1325

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

9/1/21 1900

CMC courier 9/2/21 0730

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: Mobil CI #12 Tie In

Project #: 5375

Project Manager: W. Kierdorf

Sampler: M. Cook

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 3.7+0.1 = 3.8

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2109085	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/30/21	1448	Soil	TH-5/2'	4oz 1	None	013	X	X	X
	1453		TH-5/5'			014	X	X	X
	1505		TH-5/8'			015	X	X	X
	1517		TH-6/Surface			016	X	X	X
	1526		TH-6/1'			017	X	X	X

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date Time
8/31/21	2012				8/31/21 2012
9/1/21	1325				9/1/21 1325

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

9/1/21 1900

CMC Courier 9/2/21 0730

ATTACHMENT 4 – HOWELL RANCH SEED MIXTURE

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

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 65695

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 65695
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	1/26/2022