



**SITE CHARACTERIZATION, REMEDIATION, AND CLOSURE
REPORT**

**FEDERAL CM #1
UNIT M, SECTION 12, T19S-R24E
EDDY COUNTY, NEW MEXICO
32.670201, -104.547917
RANGER REFERENCE NO. 5375**

PREPARED FOR:

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

PREPARED BY:

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

NOVEMBER 22, 2021

A blue ink signature of Patrick K. Finn, consisting of a stylized 'P' and 'F'.

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

A blue ink signature of William Kierdorf, consisting of a stylized 'W' and 'K'.

**William Kierdorf, REM
Project Manager**

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FORM C-141

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- Karst Topography Map
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TABLES

- Table 1 - Site Assessment Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data
- Table 2 - Confirmation Sample Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

ATTACHMENTS

- Attachment 1 – USGS and NMOSE Water Well Data
- Attachment 2 – Photographic Documentation
- Attachment 3 – Laboratory Analytical Reports
- Attachment 4 – Howell Ranch Seed Mixture



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32.670201, -104.547917
RANGER REFERENCE NO. 5375**

1.0 SITE LOCATION AND BACKGROUND

The Federal CM #1 (Site) is located on private property, approximately 15 miles southwest of Artesia, within Eddy County, New Mexico. The Site is situated in Unit M, Section 12, T19S-R24E at GPS coordinates 32.670201, -104.547917.

On May 25, 2021, Howell Ranch Revocable Trust representatives reported an area noted to be bare of vegetation immediately south of the historic Federal CM #1 well location. This observation was reported to EOG via email and was noted to have chloride concentrations in excess of the applicable allowable concentrations.

EOG Resources, Inc. (EOG) has engaged Ranger Environmental Services, Inc. (Ranger) to assist in the assessment, remediation, and reclamation efforts at the Site. On August 11, 2021, Ranger and representatives of EOG conducted a site assessment at the reported location and documented soil concentrations indicating that historical impacts had occurred in the area. Based on these findings the incident was reported to the New Mexico Oil Conservation Division (NMOCD) on August 31, 2021 (NMOCD Incident # nAPP2124432801).

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

The previously submitted Initial C-141 Form Release Notification as well as the Site Assessment/Characterization, Remediation Plan and closure sections of Form C-141 are attached. A Topographic Map and Area Map noting the location of the subject property 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. 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, no water wells were identified within a half-mile of the Site. The locations of the referenced USGS and NMOSE water well data was noted to fall immediately outside the half-mile radius.

Upon review of the National Wetland Inventory, the impacted area 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, the closest significant watercourse with a half-mile of the site is Seven Mile Draw, located approximately 660 feet north-northeast of the site.

2.4 Closure Criteria

Based upon the Site characterization details, and per NMAC 19.15.29.12, the Site was 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, REMEDIATION, AND CONFIRMATION SAMPLING

3.1 August 11, 2021 – Initial Site Assessment and Sampling Results

On August 11, 2021, Ranger personnel and representatives for EOG mobilized to the Site to conduct soil delineation activities. As summarized above, an area noted to be bare of vegetation was reported to EOG by Howell Ranch Revocable Trust.



To assess the reported area soil impacts, a total of nine test hole excavations (PT1 through PT9) were completed in the reported area. During the test hole excavation process, Ranger personnel field screened the soils at the surface and at approximate one-foot intervals thereafter using an organic vapor monitor (OVM) and a field chloride titration kit to assist in evaluating the soil conditions and/or levels of impacts in the area. Due to the lithology of the area and hard layers encountered the test excavations were completed to a maximum depth of approximately four feet below ground surface (bgs).

During the installation process, field chloride titrations indicated that elevated chloride soil concentrations were present in the reported area. No discolored soils or elevated OVM readings were encountered during the assessment process. The initial test excavation was completed in the immediate vicinity of the location reported by Howell Ranch Revocable Trust. Based on the observed field readings the subsequent test excavation locations were completed moving outward in each cardinal direction to assist in delineating the observed elevated chloride concentrations.

During the test hole installation process, soil samples were collected for laboratory analysis from six of the nine test hole excavations at various depth intervals in order to assist in delineating the elevated chloride concentrations. A total of 15 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.

Upon review of the laboratory analytical results, the soil samples collected from test hole PT1, PT4, PT6, and PT9 were documented to contain exceedances of the chloride closure criteria. Additionally, exceedances of the TPH closure criteria were also documented in the surface samples collected at test excavation locations PT3 and PT9. No exceedances of the BTEX closure criteria were documented.

The initial assessment soil sample analytical results are summarized in Table 1. Copies of the laboratory analytical reports are also attached.

3.2 Site Remediation and Confirmation Sampling

Based on the initial site assessment results, soil removal operations were conducted at the site to address the elevated chloride and TPH concentrations.

From October 5th to November 11th, soil removal operations were conducted at the site. To assess the excavated area and confirm that all elevated chloride and TPH concentrations had been removed, confirmation soil samples were collected as five-part composite samples in accordance with NMAC 19.15.29.12 with each sample representing less than 200 square feet. Soil sampling for cleanup confirmation purposes occurred on October 14, October 22, October 28, and November 11, 2021.

Based on the results of the initial sampling events, additional excavation activities were completed in the areas noted to remain in exceedance of the applicable cleanup criteria. Additional cleanup confirmation soil samples were subsequently collected from the over-excavated locations. Due to the growing dimensions and depths of the excavated area, additional cleanup confirmation soil samples were collected as necessary to maintain compliance with NMAC 19.15.29.12 with each sample representing less than 200 square feet. Upon collection, the soil samples were submitted



to Hall Environmental Laboratories 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 completion of the soil removal operations the final excavation was irregularly shaped and had a maximum depth of approximately 13 feet bgs.

3.3 Final Confirmation Sample Results

Throughout the remedial process, soil samples collected for laboratory analysis were analyzed for TPH, BTEX, and total chloride using NMOCD-approved laboratory methods. During the remedial process various sample were documented to have chloride concentrations in exceedance of the applicable 600 ppm criteria. Additionally, several samples were noted to have TPH concentrations in exceedance of the applicable 100 ppm criteria. No samples collected during the remedial process were noted to have BTEX concentrations in exceedance of the applicable criteria.

Based on the final sample results from the excavated areas, all locations were documented to have been excavated to boundaries in attainment of the applicable Table 1 19.15.29.12 NMAC (groundwater \leq 50 feet) criteria. Additionally, the final excavated area was also documented to be in attainment of the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC.

The cleanup confirmation soil sample analytical results are summarized in Table 2. Copies of the laboratory analytical reports are also attached.

A Site Excavation and Final Confirmation Sample Location Map depicting the excavated areas and final cleanup confirmation sample locations is attached.

3.4 Waste Disposal

All soils generated during the remedial excavation activities were transported and disposed of at Lea Land disposal facility in Lea County, New Mexico. Approximately 945 cubic yards of material were excavated and transported to disposal from the Site.

4.0 SITE CLOSURE

4.1 Site Backfill and Re-seeding

Based on the soil sample laboratory results the excavated area will be backfilled with clean fill material in accordance with NMAC 19.15.29.12 and NMAC 19.15.29.13. The area will be re-seeded with the surface owner directed seed mixture. A copy of the seed mixture is attached.

4.2 Closure Request

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



FORM C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

Incident ID	nAPP2124432801
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)
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.6706238 Longitude -104.5480728
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Federal CM Com #1	Site Type Pipeline
Date Release Discovered 08/24/2021	API# 30-015-20800

Unit Letter	Section	Township	Range	County
M	12	19S	24E	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Historical impacts reported by the surface owner. The environmental consultant contracted to investigate the area determined on 8/24/21 based on the impacted area footprint that the release more than likely breached the reportable threshold for volume released.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Chase Settle</u> Title: <u>Rep Safety & Environmental Sr</u> Signature: <u></u> Date: <u>08/31/2021</u> email: <u>Chase_Settle@eogresources.com</u> Telephone: <u>575-748-1471</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

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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: _____

Incident ID	
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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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

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Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ 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
 Action 45812

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 45812
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
marcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	9/1/2021

Incident ID	nAPP2124432801
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Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-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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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: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 11/22/2021

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

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2124432801
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: 11/22/2021
 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: _____ Date: _____

Incident ID	nAPP2124432801
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
 Signature: Chase Settle Date: 11/22/2021
 email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

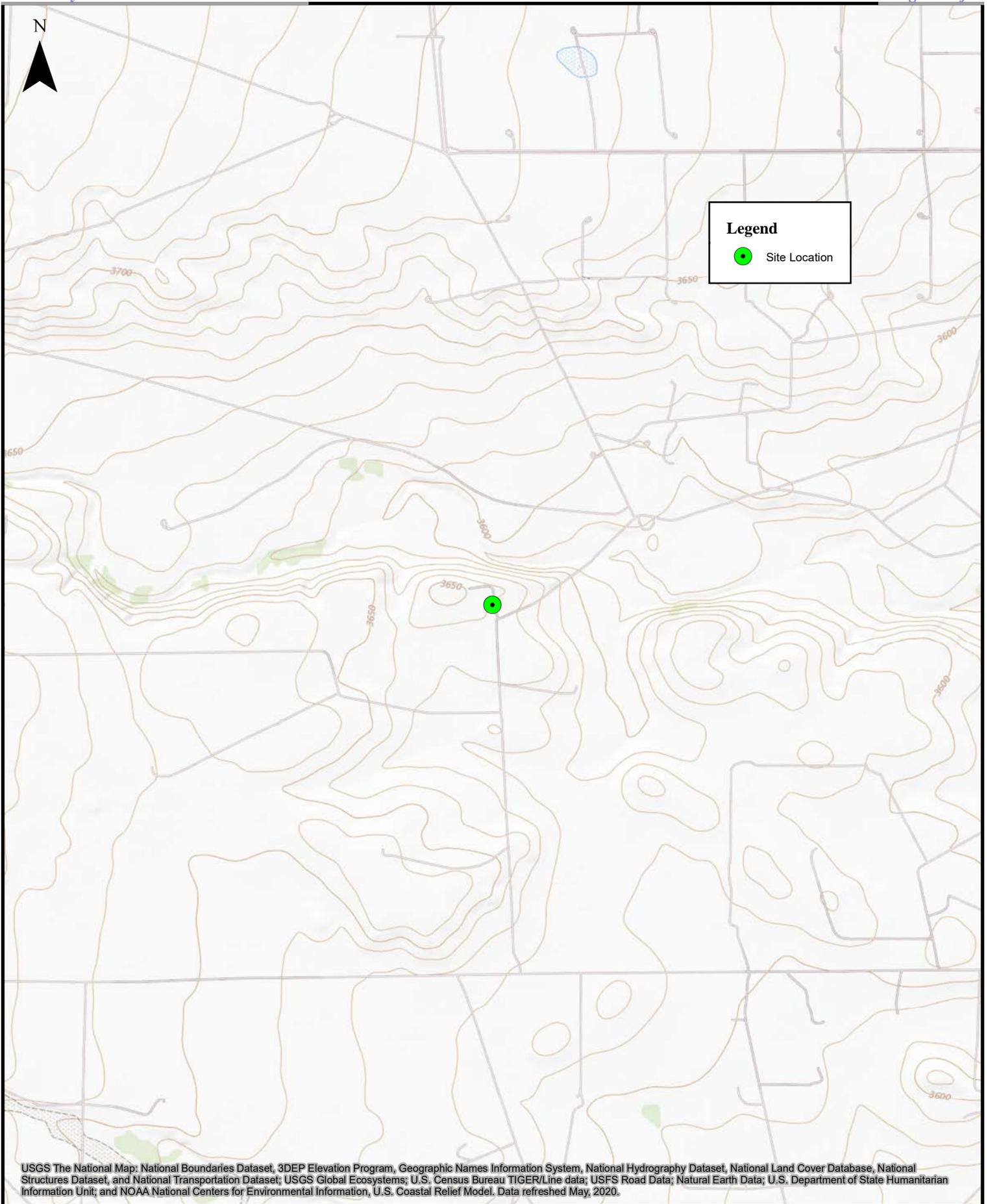
Received by: Chad Hensley Date: 12/21/2021

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: Chad Hensley Date: 12/21/2021
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced

FIGURES

Topographic Map
Area Map
National Wetland Inventory Map
FEMA Floodplain Map
Karst Topography Map
Initial Assessment Sample Location Map
Excavation and Final Confirmation Sample Location Map

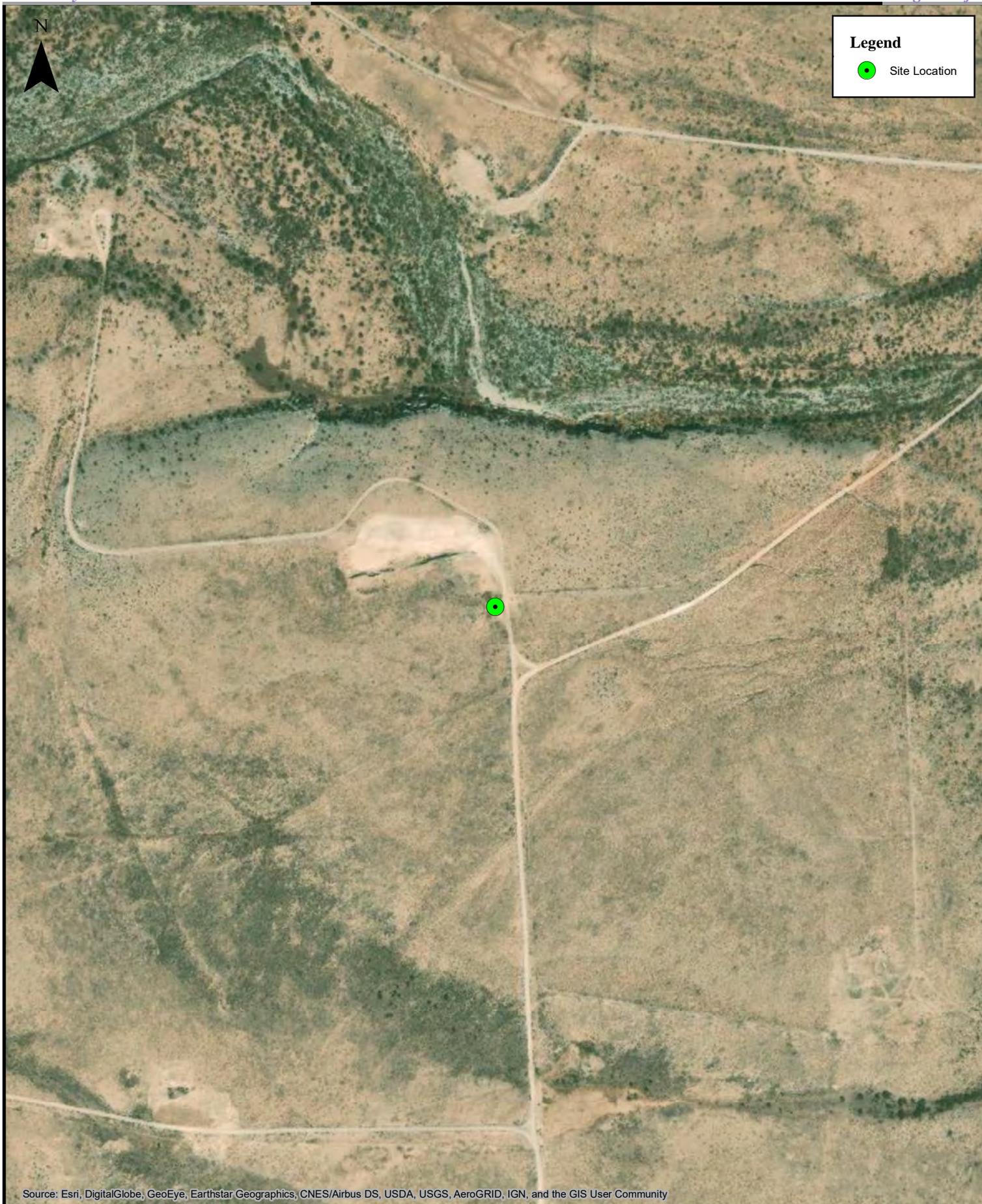


USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS 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.



1:24,000

Topographic Map
Federal CM #1
EOG Resources, Inc.



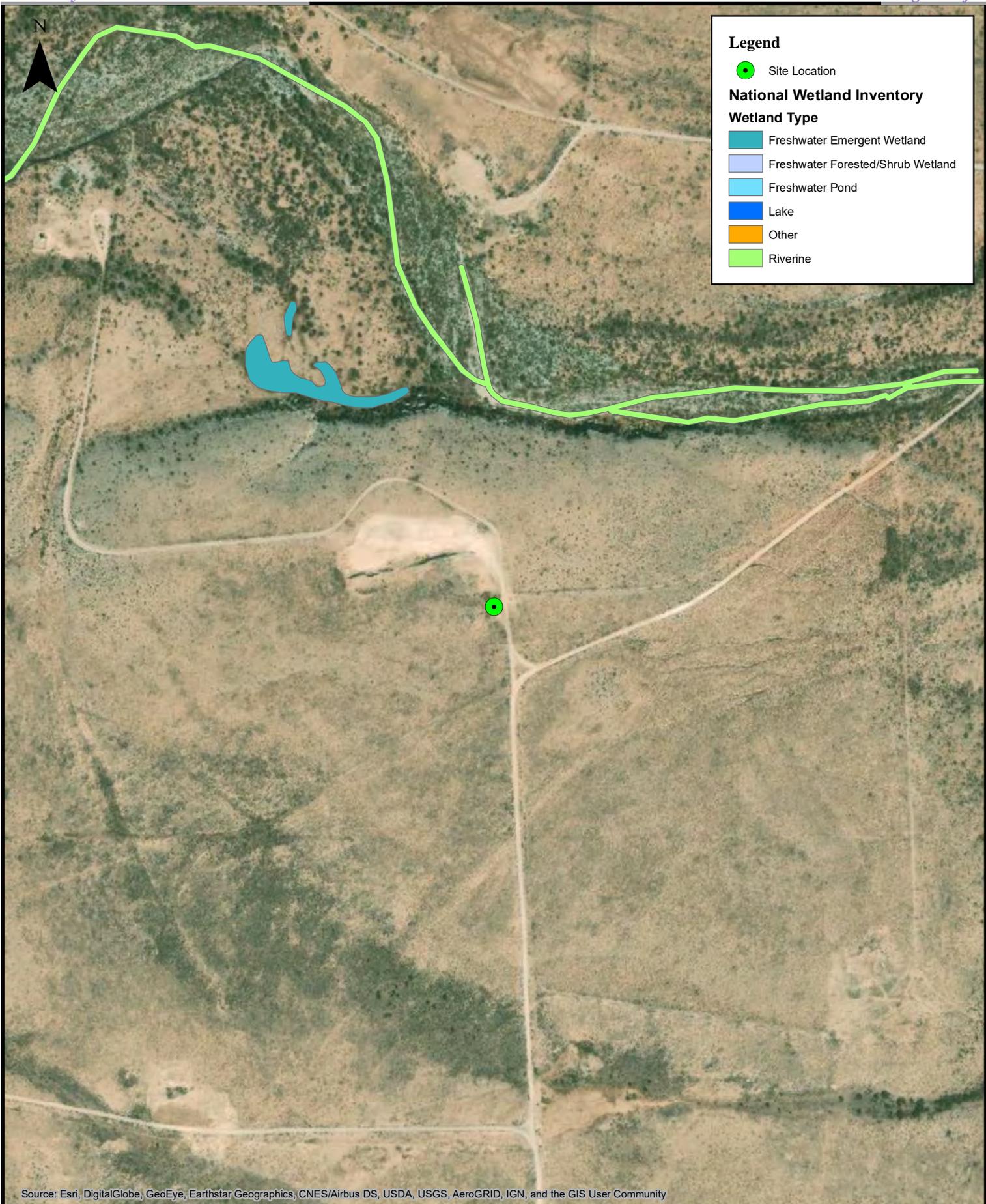
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



0 125 250 500 750 1,000 Feet

1:5,000

Area Map
Federal CM #1
EOG Resources, Inc.



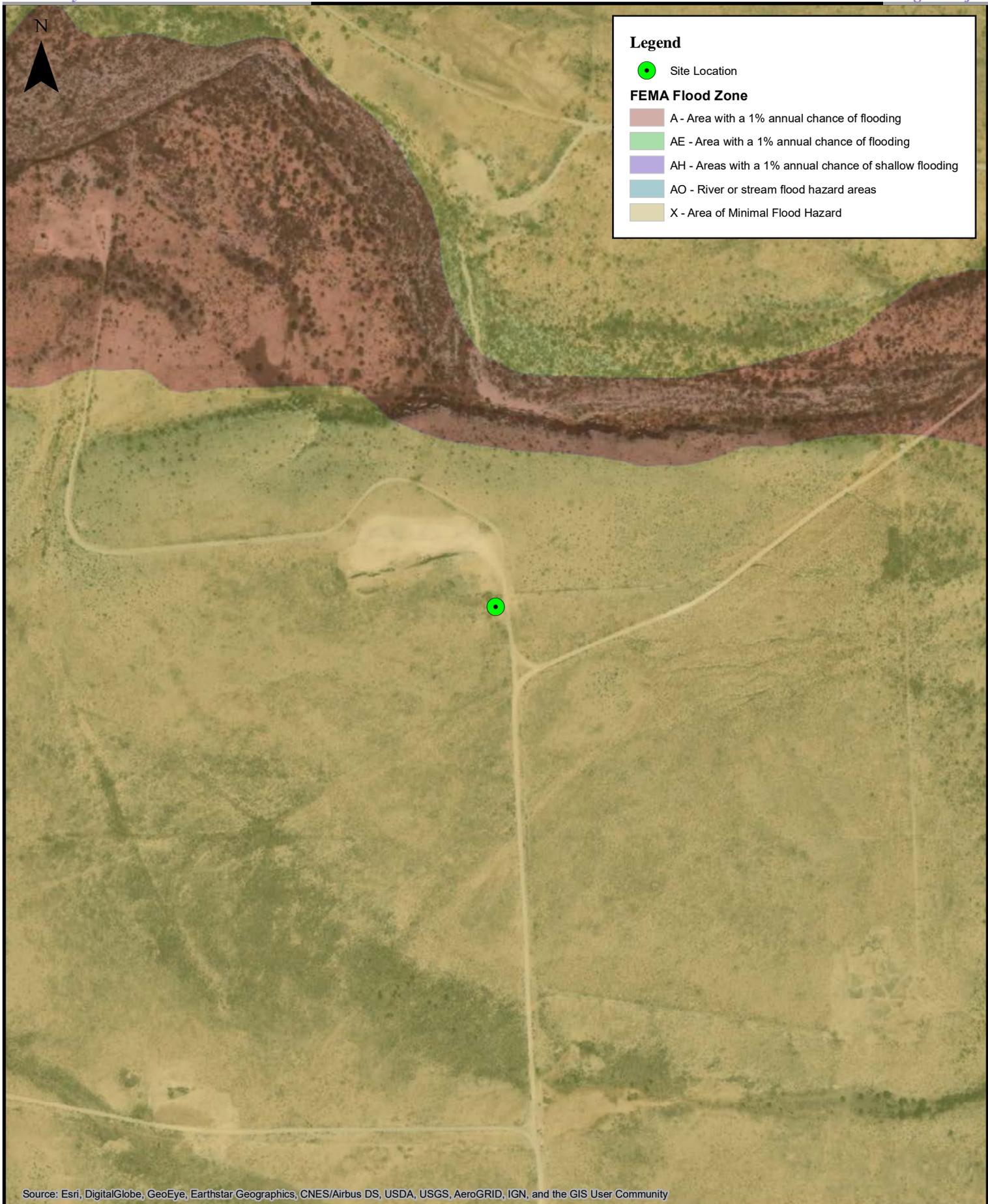
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



0 125 250 500 750 1,000 Feet

1:5,000

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

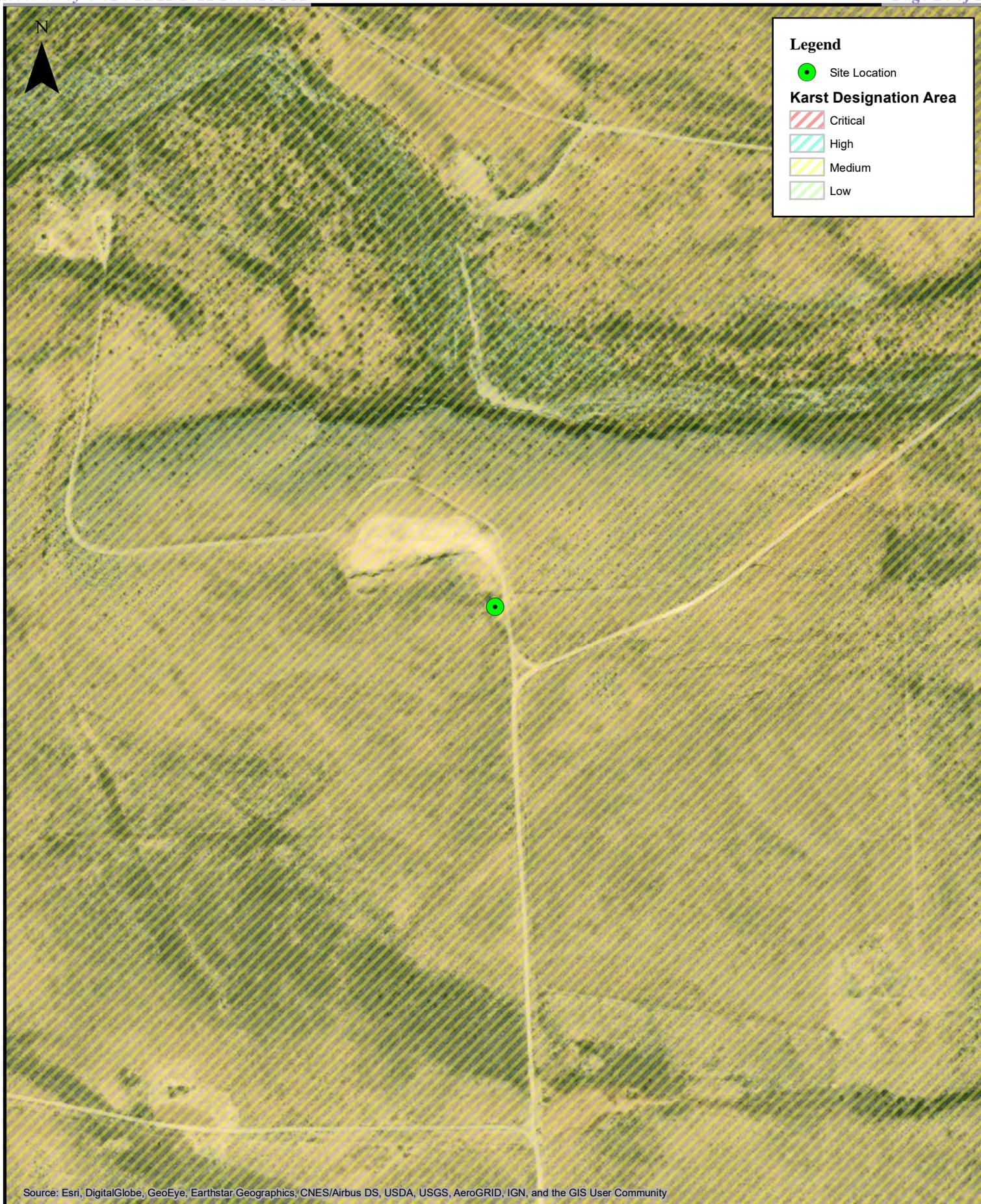


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



1:5,000

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



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



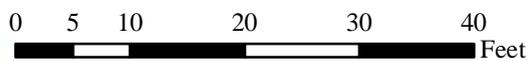
0 125 250 500 750 1,000 Feet

1:5,000

Karst Topography Map
Federal CM #1
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: Google Earth (Date: 12/2019)



1:200

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



*Samples B-1, B-2, B-3, & B-4 included portions of the northern most wall of the excavation as the wall was ramped to depth interval presented.

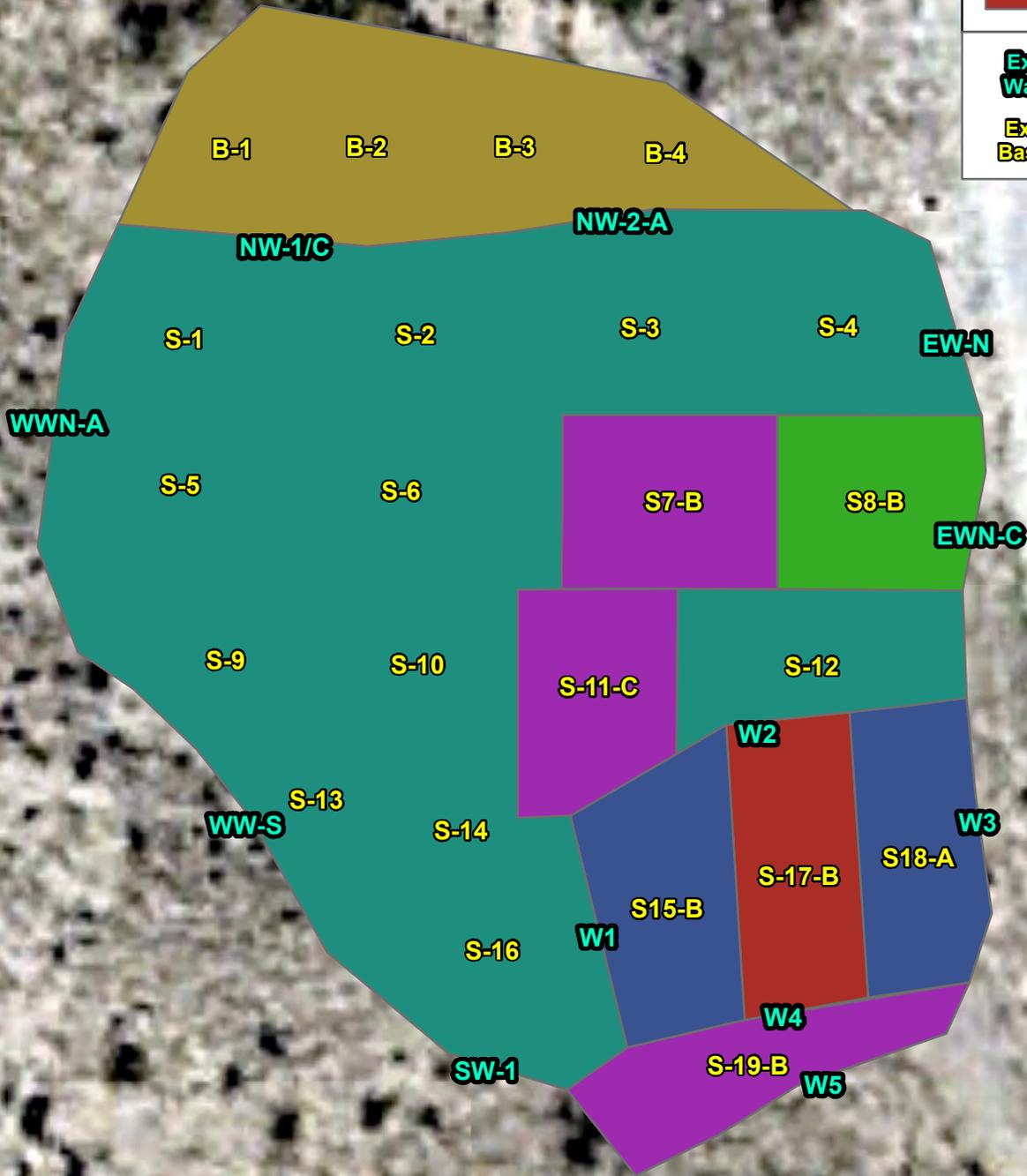
Legend

Excavation Depth

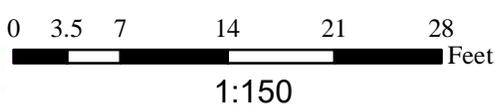
- 8"-1'
- 4'
- 6'-7'
- 7'
- 12'
- 12'-13'

Excavation Wall Sample

Excavation Base Sample



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: Google Earth (Date: 12/2019)



Site Excavation and Final Confirmation Sample Location Map
 Federal CM #1
 EOG Resources, Inc.

TABLES

Table 1 - Site Assessment Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

Table 2 - Confirmation Soil Sample BTEX (EPA 8260), TPH (EPA 8015) & Chloride (EPA 300) Analytical Data

TABLE 1 - ASSESSMENT SOIL SAMPLES BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
EOG RESOURCES, INC.
FEDERAL CM #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
Initial Site Assessment - August 11, 2021													
PT1/0	8/11/2021	0'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	110	250	110	360	5,100
PT1/2	8/11/2021	2'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.6	<48	<9.6	<48	1,200
PT1/3.5	8/11/2021	3.5'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<8.9	<45	<8.9	<45	510
PT2/0	8/11/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.8	<49	<9.8	<49	1,000
PT2/2	8/11/2021	2'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.2	<46	<9.2	<46	1,300
PT2/3	8/11/2021	3'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.7	<48	<9.7	<48	1,100
PT4/0	8/11/2021	0'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.3	<46	<9.3	<46	<60
PT4/3	8/11/2021	3'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<48	<9.5	<48	610
PT6/1	8/11/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<48	<9.7	<48	2,700
PT6/3	8/11/2021	3'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.7	<48	<9.7	<48	520
PT8/0	8/11/2021	0'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.4	<47	<9.4	<47	<60
PT8/2	8/11/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<49	<9.7	<49	<61
PT8/4	8/11/2021	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<49	<9.7	<49	540
PT9/0	8/11/2021	0'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	480	1,500	480	2,000	<60
PT9/1	8/11/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	23	52	23	75	<61
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)			10³	---	---	---	50³	---	---	---	---	100³	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.													

TABLE 2 - CONFIRMATION SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA													
EOG RESOURCES, INC.													
FEDERAL CM #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
Excavation Base Soil Samples													
B-1	10/14/2021	8"-1'	<0.017	<0.035	<0.035	<0.069	<0.07	<3.5	<9.4	<47	<9.4	<47	<60
B-2	10/14/2021	8"-1'	<0.018	<0.036	<0.036	<0.072	<0.07	<3.6	<9.4	<47	<9.4	<47	<59
B-3	10/14/2021	8"-1'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.8	<49	<9.8	<49	<60
B-4	10/14/2021	8"-1'	<0.023	<0.046	<0.046	<0.091	<0.09	<4.6	<9.3	<47	<9.3	<47	<60
S-1	10/14/2021	4'	<0.025	<0.051	<0.051	<0.10	<0.10	<5.1	<9.4	<47	<9.4	<47	100
S-2	10/14/2021	4'	<0.033	<0.065	<0.065	<0.13	<0.13	<6.5	<9.5	<47	<9.5	<47	280
S-3	10/14/2021	4'	<0.021	<0.041	<0.041	<0.082	<0.08	<4.1	<9.8	<49	<9.8	<49	320
S-4	10/14/2021	4'	<0.035	<0.070	<0.070	<0.14	<0.14	<7.0	<9.7	<49	<9.7	<49	470
S-5	10/14/2021	4'	<0.022	<0.045	<0.045	<0.090	<0.09	<4.5	<9.7	<48	<9.7	<48	290
S-6	10/14/2021	4'	<0.020	<0.040	<0.040	<0.081	<0.08	<4.0	<9.4	<47	<9.4	<47	300
S-7	10/14/2021	4'	<0.046	<0.092	<0.092	<0.066	<0.06	<3.2	<9.3	<47	<9.3	<47	720
S7-A	10/22/2021	6'	<0.026	<0.052	<0.052	<0.10	<0.10	<4.0	<9.9	<50	<9.9	<50	830
S7-B	10/28/2021	6'	<0.021	<0.042	<0.042	<0.085	<0.08	<4.2	<9.7	<49	<9.7	<49	580
S-8	10/14/2021	4'	<0.020	<0.039	<0.039	<0.078	<0.08	<3.9	<9.7	<48	<9.7	<48	640
S8-A	10/22/2021	6'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.4	<47	<9.4	<47	830
S8-B	10/28/2021	7'	<0.019	<0.037	<0.037	<0.075	<0.07	<3.7	<9.1	<45	<9.1	<45	540
S-9	10/14/2021	4'	<0.030	<0.059	<0.059	<0.12	<0.12	<5.9	<9.1	<45	<9.1	<45	510
S-10	10/14/2021	4'	<0.026	<0.051	<0.051	<0.10	<0.10	<5.1	<9.9	<49	<9.9	<49	500
S-11	10/14/2021	4'	<0.047	<0.093	<0.093	<0.066	<0.07	<3.3	<9.8	<49	<9.8	<49	1,000
S11-A	10/22/2021	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	1,000
S11-B	10/28/2021	6'	<0.047	<0.094	<0.094	<0.068	<0.07	<3.4	<9.9	<49	<9.9	<49	610
S-11-C	11/11/2021	6'-7'	<0.022	<0.044	<0.044	<0.089	<0.09	<4.4	<9.4	<47	<9.4	<47	430
S-12	10/14/2021	4'	<0.016	<0.031	<0.031	<0.063	<0.06	<3.1	<8.8	<44	<8.8	<44	590
S-13	10/14/2021	3'-4'	<0.013	<0.026	<0.026	<0.051	<0.05	<2.6	<6.4	<32	<6.4	<32	300
S-14	10/14/2021	3'-4'	<0.018	<0.036	<0.036	<0.072	<0.07	<3.6	<9.3	<47	<9.3	<47	370
S-15	10/14/2021	3'-4'	<0.049	<0.097	<0.097	<0.075	<0.07	<3.7	47	69	47	115	289
S15-B	10/28/2021	12'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<9.9	<49	<9.9	<49	570
S-16	10/14/2021	3'	<0.013	<0.025	<0.025	<0.051	<0.05	<2.5	<8.8	<44	<8.8	<44	350
S-17	10/14/2021	3'	<0.049	<0.098	<0.098	<0.076	<0.08	<3.8	23	53	23	76	1,000
S17-B	10/28/2021	12'	<0.029	<0.059	<0.059	<0.12	<0.12	<5.9	<9.7	<48	<9.7	<48	610
S-17-C	11/11/2021	12'-13'	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	<9.7	<49	<9.7	<49	460
S18-A	10/28/2021	12'	<0.021	<0.041	<0.041	<0.082	<0.08	<4.1	<9.8	<49	<9.8	<49	110
S19-A	10/28/2021	6'	<0.048	<0.096	<0.096	<0.073	<0.07	<3.6	<9.8	<49	<9.8	<49	750
S-19-B	11/11/2021	6'-7'	<0.016	<0.032	<0.032	<0.065	<0.06	<3.2	<9.3	<46	<9.3	<46	510
Excavation Side Wall Soil Samples													
NW-1	10/14/2021	1'-4'	<0.029	<0.058	<0.058	<0.12	<0.12	<5.8	<9.3	<47	<9.3	<47	1,000
NW-1-A	10/22/2021	4'-5'	<0.034	<0.067	<0.067	<0.13	<0.13	<6.7	<9.9	<50	<9.9	<50	1,100
NW1-B	10/28/2021	0-5'	<0.022	<0.044	<0.044	<0.087	<0.09	<4.4	<9.5	<47	<9.5	<47	730
NW-1/C	11/11/2021	0-5'	<0.040	<0.080	<0.080	<0.16	<0.16	<8.0	<9.5	<47	<9.5	<47	330
NW-2-A	10/22/2021	4'-5'	<0.030	<0.061	<0.061	<0.12	<0.12	<6.1	<10	<50	<10	<50	470
SW-1	10/14/2021	0-3'	<0.020	<0.040	<0.040	<0.079	<0.08	<4.0	<10	<50	<10	<50	580
EW-N	10/14/2021	0-4'	<0.023	<0.045	<0.045	<0.090	<0.09	<4.5	<8.3	<41	<8.3	<41	470
EW-N-A	10/22/2021	0-7'	<0.038	<0.076	<0.076	<0.15	<0.15	<7.6	<9.5	<48	<9.5	<48	1,100
EWN-B	10/28/2021	0-7'	<0.020	<0.039	<0.039	<0.079	<0.08	<3.9	<9.9	<50	<9.9	<50	930
EWN-C	11/11/2021	0'-7'	<0.040	<0.080	<0.080	<0.16	<0.16	<8.0	<9.6	<48	<9.6	<48	340
EW-S	10/14/2021	0-4'	<0.048	<0.095	<0.095	<0.071	<0.07	<3.5	<9.6	<48	<9.6	<48	1,200
WW-N	10/14/2021	0-4'	<0.047	<0.093	<0.093	<0.066	<0.07	<3.3	23	100	23	123	490
WWN-A	10/22/2021	4'-5'	<0.033	<0.066	<0.066	<0.13	<0.13	<6.6	<9.6	<48	<9.6	<48	560
WW-S	10/14/2021	0-4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.0	49	<9.0	49	410
W1	10/28/2021	5'-12'	<0.018	<0.035	<0.035	<0.070	<0.07	<3.5	<10	<50	<10	<50	150
W2	10/28/2021	6'-12'	<0.016	<0.032	<0.032	<0.064	<0.06	<3.2	<9.9	<49	<9.9	<49	130
W3	10/28/2021	0-12'	<0.014	<0.028	<0.028	<0.057	<0.06	<2.8	<9.1	<45	<9.1	<45	200
W4	10/28/2021	6'-12'	<0.031	<0.062	<0.062	<0.12	<0.12	<6.2	<9.4	<47	<9.4	<47	110
W5	10/28/2021	0-6'	<0.022	<0.043	<0.043	<0.087	<0.09	<4.3	<9.7	<48	<9.7	<48	150
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)			10 ⁴	---	---	---	50 ⁴	---	---	---	---	100 ⁴	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. Strikethrough indicates sample area has been excavated and an additional sample(s) have been collected from the area.													
4. 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 – NMOSE AND USGS WATER
WELL 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	Tws	Rng	X	Y
RA 06436		3 1 4	12	19S	24E	543083	3615122*

Driller License: 406	Driller Company: TIDWELL, CLYDE J.	
Driller Name:		
Drill Start Date: 01/30/1979	Drill Finish Date: 02/04/1979	Plug Date:
Log File Date: 02/04/1979	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well:	Depth Water: 300 feet

Meter Number: 4261	Meter Make: MCCROMETER
Meter Serial Number: 13-01326-13	Meter Multiplier: 100.0000
Number of Dials: 6	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/11/2000	2000	0	A	RPT		0
07/11/2000	2000	0	A	RPT		0
10/11/2000	2000	0	A	RPT		0
01/03/2001	2000	0	A	RPT		0
04/09/2001	2001	0	A	RPT		0
07/09/2001	2001	0	A	RPT	not water used this quater	0
01/23/2002	2001	16020	A	RPT		0
04/04/2002	2002	16020	A	RPT		0
07/06/2002	2002	23670	A	RPT		0.023
10/09/2002	2002	26528	A	RPT		0.009
01/14/2003	2002	32468	A	RPT		0.018
04/16/2003	2003	35292	A	RPT		0.009
08/18/2003	2003	53990	A	tw		0.057
10/28/2003	2003	57574	A	tw		0.011
01/08/2004	2004	57574	A	tw		0
04/15/2004	2004	61694	A	sj		0.013
07/06/2004	2004	61694	A	sj		0
10/02/2004	2004	92200	A	sj		0.094
01/10/2005	2004	108867	A	sj		0.051
04/11/2005	2005	109923	A	RPT		0.003
07/09/2005	2005	112043	A	RPT		0.007
10/04/2005	2005	116328	A	RPT		0.013
12/31/2005	2005	129760	A	ch		0.041
02/27/2006	2006	140575	A	ch		0.033
03/01/2006	2006	0	A	RPT	Initial reading	0

07/07/2006	2006	29996	A	RPT	9.205
10/02/2006	2006	44829	A	RPT	4.552
04/10/2007	2007	52670	A	RPT	2.406
07/09/2007	2007	55001	A	RPT	0.715
10/10/2007	2007	55501	A	RPT	0.153
01/08/2008	2007	57425	A	RPT	0.590
04/08/2008	2008	58751	A	RPT	0.407
07/08/2008	2008	61160	A	RPT	0.739
10/09/2008	2008	61589	A	RPT	0.132
01/08/2009	2008	62400	A	RPT	0.249
01/01/2010	2009	65837	A	RPT	1.055
10/05/2011	2011	20693	A	RPT Final reading/Temp Meter	6.350
10/05/2011	2011	0	A	RPT Initial reading/Temp meter	0
10/05/2011	2011	70831	A	RPT	1.533
07/09/2012	2012	2376	A	RPT Temp Meter/Initial Reading	0
07/09/2012	2012	6707	A	RPT Temp Meter/Final Reading	1.329
05/08/2013	2013	70831	A	RPT Old Meter Reinstalled/New read	0
05/08/2013	2013	84373	A	RPT	4.156
07/10/2013	2013	84727	A	RPT	0.109
10/01/2013	2013	85221	A	RPT	0.152
01/01/2014	2013	243320	R	RPT Corrected reading	48.519
04/01/2014	2014	244217	A	RPT Corrected reading	0.275
07/01/2014	2014	271687	A	RPT	8.430
10/01/2014	2014	304194	A	RPT	9.976
07/01/2015	2015	344217	A	RPT	12.283
10/08/2015	2015	344217	A	RPT	0
01/01/2016	2016	344217	A	ap	0
04/01/2016	2016	344217	A	ap	0
07/01/2016	2016	344217	A	ap	0
10/01/2016	2016	344217	A	ap	0
01/01/2017	2017	344217	A	ap	0
04/04/2017	2017	181180	A	ap newmeterstartedw/181180	0
07/06/2017	2017	236029	A	ap	16.833
10/06/2017	2017	257069	A	ap	6.457
01/03/2018	2018	289625	A	ap	9.991
04/01/2018	2018	289625	A	ap	0
07/01/2018	2018	289625	A	ap	0
10/01/2018	2018	289625	A	RPT	0
01/01/2019	2019	289625	A	RPT	0
04/01/2019	2019	289625	A	RPT	0
07/01/2019	2019	289625	A	RPT	0
10/01/2019	2019	289734	A	RPT	0.033
01/01/2020	2020	289734	A	RPT	0
10/01/2020	2020	323186	A	RPT	10.266
01/01/2021	2020	323186	A	RPT	0
07/01/2021	2021	337019	A	WEB	4.245 X

x

****YTD Meter Amounts:**

Year	Amount
2000	0
2001	0

2002	0.050
2003	0.077
2004	0.158
2005	0.064
2006	13.790
2007	3.864
2008	1.527
2009	1.055
2010	0
2011	7.883
2012	1.329
2013	52.936
2014	18.681
2015	12.283
2016	0
2017	23.290
2018	9.991
2019	0.033
2020	10.266
2021	4.245

*UTM location was derived from PLSS - see Help

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

8/3/21 10:08 AM

POINT OF DIVERSION SUMMARY



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United States

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Search Results -- 1 sites found

site_no list =

- 324024104322201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324024104322201 19S.24E.12.413200

Available data for this site

Groundwater: Field measurements

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°40'24", Longitude 104°32'22" NAD27

Land-surface elevation 3,589 feet above NGVD29

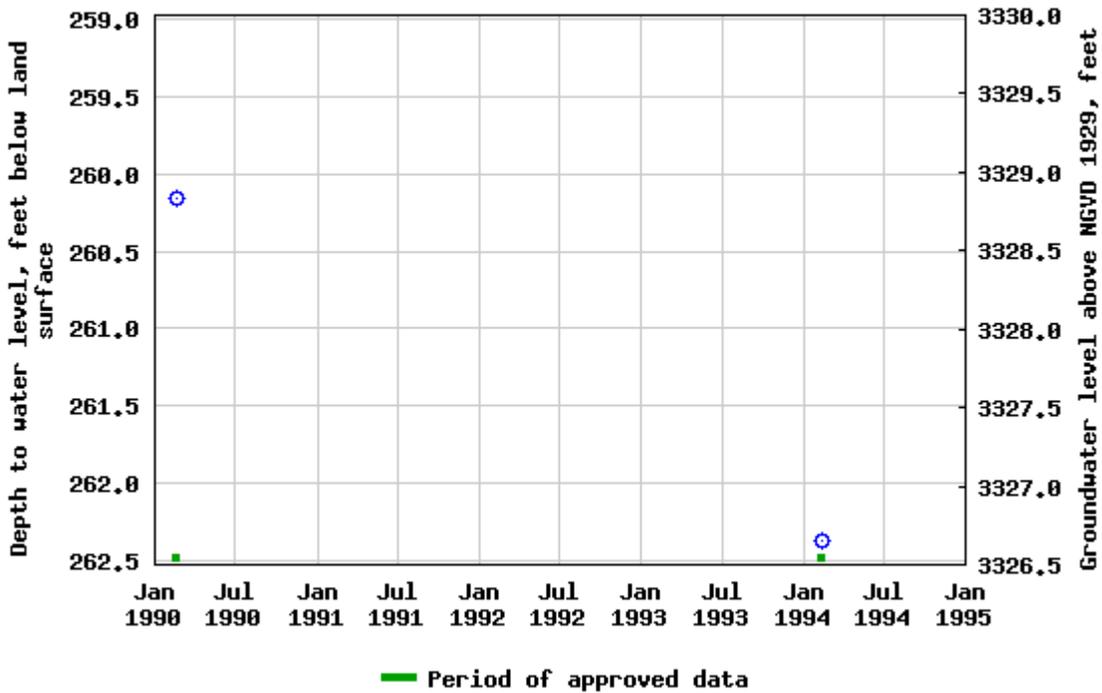
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Artesia Group (313ARTS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

USGS 324024104322201 19S.24E.12.413200



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

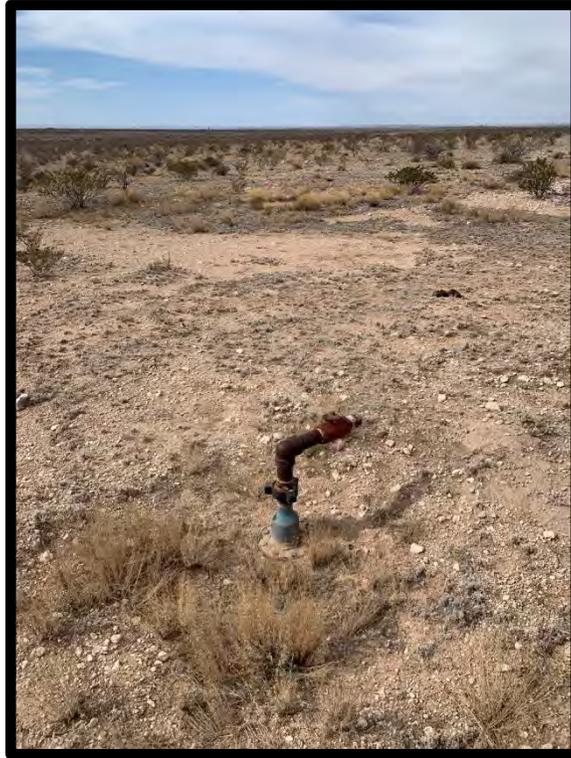


Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-08-03 12:12:21 EDT

0.71 0.63 nadww01

ATTACHMENT 2 – PHOTOGRAPHIC
DOCUMENTATION



PHOTOGRAPH NO. 1 – A general view of the subject area prior to the assessment and remediation activities. (Approximate GPS Coordinates: 32.670270, -104.547938)



PHOTOGRAPH NO. 2 – A general view of the site during the August 11, 2021 site assessment activities. The view is towards the northwest. (Approximate GPS Coordinates: 32.670083, -104.547831)



PHOTOGRAPH NO. 3 – A view final excavation extent. The view is towards the southwest. (Approximate GPS Coordinates: 32.670314, -104.547838)



PHOTOGRAPH NO. 4 – A view of the final excavation extent. The view is towards the north. (Approximate GPS Coordinates: 32.669936, -104.547868)



PHOTOGRAPH NO. 5 – A view of the southeastern portion of the excavation upon completion. (Approximate GPS Coordinates: 32.670219, -104.547848)

ATTACHMENT 3 – LABORATORY ANALYTICAL
REPORTS



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

August 20, 2021

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

RE: Federal CM 1

OrderNo.: 2108600

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 15 sample(s) on 8/12/2021 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT1/0

Project: Federal CM 1

Collection Date: 8/11/2021 12:00:00 PM

Lab ID: 2108600-001

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	5100	300		mg/Kg	100	8/18/2021 8:53:29 AM	62019
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	110	20		mg/Kg	2	8/18/2021 6:14:26 PM	61957
Motor Oil Range Organics (MRO)	250	98		mg/Kg	2	8/18/2021 6:14:26 PM	61957
Surr: DNOP	93.2	70-130		%Rec	2	8/18/2021 6:14:26 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2021 5:31:13 AM	61950
Surr: BFB	87.0	70-130		%Rec	1	8/14/2021 5:31:13 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/14/2021 5:31:13 AM	61950
Toluene	ND	0.049		mg/Kg	1	8/14/2021 5:31:13 AM	61950
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2021 5:31:13 AM	61950
Xylenes, Total	ND	0.097		mg/Kg	1	8/14/2021 5:31:13 AM	61950
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	8/14/2021 5:31:13 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT1/2

Project: Federal CM 1

Collection Date: 8/11/2021 12:05:00 PM

Lab ID: 2108600-002

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1200	60		mg/Kg	20	8/18/2021 5:57:34 AM	62019
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/14/2021 5:45:46 PM	61957
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2021 5:45:46 PM	61957
Surr: DNOP	113	70-130		%Rec	1	8/14/2021 5:45:46 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2021 6:41:43 AM	61950
Surr: BFB	90.1	70-130		%Rec	1	8/14/2021 6:41:43 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/14/2021 6:41:43 AM	61950
Toluene	ND	0.049		mg/Kg	1	8/14/2021 6:41:43 AM	61950
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2021 6:41:43 AM	61950
Xylenes, Total	ND	0.098		mg/Kg	1	8/14/2021 6:41:43 AM	61950
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	8/14/2021 6:41:43 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT1/3.5

Project: Federal CM 1

Collection Date: 8/11/2021 12:10:00 PM

Lab ID: 2108600-003

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	510	60		mg/Kg	20	8/18/2021 6:09:58 AM	62019
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	8/14/2021 6:09:39 PM	61957
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	8/14/2021 6:09:39 PM	61957
Surr: DNOP	121	70-130		%Rec	1	8/14/2021 6:09:39 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2021 7:05:16 AM	61950
Surr: BFB	87.5	70-130		%Rec	1	8/14/2021 7:05:16 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/14/2021 7:05:16 AM	61950
Toluene	ND	0.048		mg/Kg	1	8/14/2021 7:05:16 AM	61950
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2021 7:05:16 AM	61950
Xylenes, Total	ND	0.097		mg/Kg	1	8/14/2021 7:05:16 AM	61950
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	8/14/2021 7:05:16 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT2/0

Project: Federal CM 1

Collection Date: 8/11/2021 12:15:00 PM

Lab ID: 2108600-004

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1000	60		mg/Kg	20	8/18/2021 9:30:42 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/14/2021 6:33:32 PM	61957
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/14/2021 6:33:32 PM	61957
Surr: DNOP	81.1	70-130		%Rec	1	8/14/2021 6:33:32 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2021 7:28:53 AM	61950
Surr: BFB	87.8	70-130		%Rec	1	8/14/2021 7:28:53 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/14/2021 7:28:53 AM	61950
Toluene	ND	0.049		mg/Kg	1	8/14/2021 7:28:53 AM	61950
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2021 7:28:53 AM	61950
Xylenes, Total	ND	0.099		mg/Kg	1	8/14/2021 7:28:53 AM	61950
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	8/14/2021 7:28:53 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2108600

Date Reported: 8/20/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT2/2

Project: Federal CM 1

Collection Date: 8/11/2021 12:20:00 PM

Lab ID: 2108600-005

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	60		mg/Kg	20	8/18/2021 9:43:06 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/14/2021 6:57:26 PM	61957
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/14/2021 6:57:26 PM	61957
Surr: DNOP	90.4	70-130		%Rec	1	8/14/2021 6:57:26 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/14/2021 7:52:27 AM	61950
Surr: BFB	88.5	70-130		%Rec	1	8/14/2021 7:52:27 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	8/14/2021 7:52:27 AM	61950
Toluene	ND	0.046		mg/Kg	1	8/14/2021 7:52:27 AM	61950
Ethylbenzene	ND	0.046		mg/Kg	1	8/14/2021 7:52:27 AM	61950
Xylenes, Total	ND	0.093		mg/Kg	1	8/14/2021 7:52:27 AM	61950
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	8/14/2021 7:52:27 AM	61950

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Page 5 of 20

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT2/3

Project: Federal CM 1

Collection Date: 8/11/2021 12:24:00 PM

Lab ID: 2108600-006

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1100	60		mg/Kg	20	8/18/2021 9:55:31 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2021 7:21:18 PM	61957
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2021 7:21:18 PM	61957
Surr: DNOP	141	70-130	S	%Rec	1	8/14/2021 7:21:18 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2021 8:16:08 AM	61950
Surr: BFB	88.9	70-130		%Rec	1	8/14/2021 8:16:08 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/14/2021 8:16:08 AM	61950
Toluene	ND	0.048		mg/Kg	1	8/14/2021 8:16:08 AM	61950
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2021 8:16:08 AM	61950
Xylenes, Total	ND	0.097		mg/Kg	1	8/14/2021 8:16:08 AM	61950
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	8/14/2021 8:16:08 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT4/0

Project: Federal CM 1

Collection Date: 8/11/2021 12:30:00 PM

Lab ID: 2108600-007

Matrix: SOIL

Received Date: 8/12/2021 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	8/18/2021 10:07:55 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/14/2021 7:45:08 PM	61957
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/14/2021 7:45:08 PM	61957
Surr: DNOP	93.4	70-130		%Rec	1	8/14/2021 7:45:08 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2021 8:39:42 AM	61950
Surr: BFB	88.8	70-130		%Rec	1	8/14/2021 8:39:42 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/14/2021 8:39:42 AM	61950
Toluene	ND	0.049		mg/Kg	1	8/14/2021 8:39:42 AM	61950
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2021 8:39:42 AM	61950
Xylenes, Total	ND	0.098		mg/Kg	1	8/14/2021 8:39:42 AM	61950
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	8/14/2021 8:39:42 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT4/3

Project: Federal CM 1

Collection Date: 8/11/2021 12:40:00 PM

Lab ID: 2108600-008

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	610	60		mg/Kg	20	8/18/2021 10:45:09 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	8/14/2021 8:32:43 PM	61957
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2021 8:32:43 PM	61957
Surr: DNOP	111	70-130		%Rec	1	8/14/2021 8:32:43 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/14/2021 9:03:16 AM	61950
Surr: BFB	90.3	70-130		%Rec	1	8/14/2021 9:03:16 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/14/2021 9:03:16 AM	61950
Toluene	ND	0.050		mg/Kg	1	8/14/2021 9:03:16 AM	61950
Ethylbenzene	ND	0.050		mg/Kg	1	8/14/2021 9:03:16 AM	61950
Xylenes, Total	ND	0.10		mg/Kg	1	8/14/2021 9:03:16 AM	61950
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	8/14/2021 9:03:16 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT6/1

Project: Federal CM 1

Collection Date: 8/11/2021 12:45:00 PM

Lab ID: 2108600-009

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2700	150		mg/Kg	50	8/19/2021 7:33:56 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2021 8:56:34 PM	61957
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2021 8:56:34 PM	61957
Surr: DNOP	109	70-130		%Rec	1	8/14/2021 8:56:34 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/14/2021 9:26:46 AM	61950
Surr: BFB	89.3	70-130		%Rec	1	8/14/2021 9:26:46 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	8/14/2021 9:26:46 AM	61950
Toluene	ND	0.049		mg/Kg	1	8/14/2021 9:26:46 AM	61950
Ethylbenzene	ND	0.049		mg/Kg	1	8/14/2021 9:26:46 AM	61950
Xylenes, Total	ND	0.098		mg/Kg	1	8/14/2021 9:26:46 AM	61950
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	8/14/2021 9:26:46 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT6/3

Project: Federal CM 1

Collection Date: 8/11/2021 12:51:00 PM

Lab ID: 2108600-010

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	520	59		mg/Kg	20	8/18/2021 11:09:58 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/14/2021 9:20:27 PM	61957
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/14/2021 9:20:27 PM	61957
Surr: DNOP	98.7	70-130		%Rec	1	8/14/2021 9:20:27 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2021 9:50:19 AM	61950
Surr: BFB	89.4	70-130		%Rec	1	8/14/2021 9:50:19 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/14/2021 9:50:19 AM	61950
Toluene	ND	0.048		mg/Kg	1	8/14/2021 9:50:19 AM	61950
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2021 9:50:19 AM	61950
Xylenes, Total	ND	0.097		mg/Kg	1	8/14/2021 9:50:19 AM	61950
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	8/14/2021 9:50:19 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT8/0

Project: Federal CM 1

Collection Date: 8/11/2021 1:00:00 PM

Lab ID: 2108600-011

Matrix: SOIL

Received Date: 8/12/2021 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	8/18/2021 11:22:22 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/14/2021 9:44:17 PM	61957
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/14/2021 9:44:17 PM	61957
Surr: DNOP	78.2	70-130		%Rec	1	8/14/2021 9:44:17 PM	61957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/14/2021 10:13:47 AM	61950
Surr: BFB	90.8	70-130		%Rec	1	8/14/2021 10:13:47 AM	61950
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	8/14/2021 10:13:47 AM	61950
Toluene	ND	0.048		mg/Kg	1	8/14/2021 10:13:47 AM	61950
Ethylbenzene	ND	0.048		mg/Kg	1	8/14/2021 10:13:47 AM	61950
Xylenes, Total	ND	0.096		mg/Kg	1	8/14/2021 10:13:47 AM	61950
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	8/14/2021 10:13:47 AM	61950

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT8/2

Project: Federal CM 1

Collection Date: 8/11/2021 1:09:00 PM

Lab ID: 2108600-012

Matrix: SOIL

Received Date: 8/12/2021 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	8/18/2021 11:34:47 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/15/2021 9:14:22 AM	61958
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/15/2021 9:14:22 AM	61958
Surr: DNOP	129	70-130		%Rec	1	8/15/2021 9:14:22 AM	61958
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/16/2021 4:33:00 PM	61951
Surr: BFB	92.0	70-130		%Rec	1	8/16/2021 4:33:00 PM	61951
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	8/16/2021 4:33:00 PM	61951
Toluene	ND	0.050		mg/Kg	1	8/16/2021 4:33:00 PM	61951
Ethylbenzene	ND	0.050		mg/Kg	1	8/16/2021 4:33:00 PM	61951
Xylenes, Total	ND	0.10		mg/Kg	1	8/16/2021 4:33:00 PM	61951
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	8/16/2021 4:33:00 PM	61951

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT8/4

Project: Federal CM 1

Collection Date: 8/11/2021 1:15:00 PM

Lab ID: 2108600-013

Matrix: SOIL

Received Date: 8/12/2021 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	540	60		mg/Kg	20	8/18/2021 11:47:11 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/15/2021 10:27:17 AM	61958
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/15/2021 10:27:17 AM	61958
Surr: DNOP	111	70-130		%Rec	1	8/15/2021 10:27:17 AM	61958
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/16/2021 5:33:00 PM	61951
Surr: BFB	86.0	70-130		%Rec	1	8/16/2021 5:33:00 PM	61951
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/16/2021 5:33:00 PM	61951
Toluene	ND	0.049		mg/Kg	1	8/16/2021 5:33:00 PM	61951
Ethylbenzene	ND	0.049		mg/Kg	1	8/16/2021 5:33:00 PM	61951
Xylenes, Total	ND	0.098		mg/Kg	1	8/16/2021 5:33:00 PM	61951
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	8/16/2021 5:33:00 PM	61951

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT9/0

Project: Federal CM 1

Collection Date: 8/11/2021 1:30:00 PM

Lab ID: 2108600-014

Matrix: SOIL

Received Date: 8/12/2021 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	8/18/2021 11:59:36 AM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	480	98		mg/Kg	10	8/18/2021 3:23:19 AM	61958
Motor Oil Range Organics (MRO)	1500	490		mg/Kg	10	8/18/2021 3:23:19 AM	61958
Surr: DNOP	0	70-130	S	%Rec	10	8/18/2021 3:23:19 AM	61958
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/16/2021 6:33:00 PM	61951
Surr: BFB	86.3	70-130		%Rec	1	8/16/2021 6:33:00 PM	61951
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/16/2021 6:33:00 PM	61951
Toluene	ND	0.047		mg/Kg	1	8/16/2021 6:33:00 PM	61951
Ethylbenzene	ND	0.047		mg/Kg	1	8/16/2021 6:33:00 PM	61951
Xylenes, Total	ND	0.095		mg/Kg	1	8/16/2021 6:33:00 PM	61951
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	8/16/2021 6:33:00 PM	61951

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2108600**

Date Reported: **8/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: PT9/1

Project: Federal CM 1

Collection Date: 8/11/2021 1:35:00 PM

Lab ID: 2108600-015

Matrix: SOIL

Received Date: 8/12/2021 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	8/18/2021 12:12:00 PM	62041
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	23	10		mg/Kg	1	8/17/2021 10:06:46 PM	61958
Motor Oil Range Organics (MRO)	52	50		mg/Kg	1	8/17/2021 10:06:46 PM	61958
Surr: DNOP	117	70-130		%Rec	1	8/17/2021 10:06:46 PM	61958
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/16/2021 6:53:00 PM	61951
Surr: BFB	85.4	70-130		%Rec	1	8/16/2021 6:53:00 PM	61951
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	8/16/2021 6:53:00 PM	61951
Toluene	ND	0.049		mg/Kg	1	8/16/2021 6:53:00 PM	61951
Ethylbenzene	ND	0.049		mg/Kg	1	8/16/2021 6:53:00 PM	61951
Xylenes, Total	ND	0.097		mg/Kg	1	8/16/2021 6:53:00 PM	61951
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	8/16/2021 6:53:00 PM	61951

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108600

20-Aug-21

Client: EOG
Project: Federal CM 1

Sample ID: MB-62019	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62019	RunNo: 80595								
Prep Date: 8/17/2021	Analysis Date: 8/17/2021	SeqNo: 2842893	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62019	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62019	RunNo: 80595								
Prep Date: 8/17/2021	Analysis Date: 8/17/2021	SeqNo: 2842894	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.6	90	110			

Sample ID: MB-62041	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62041	RunNo: 80630								
Prep Date: 8/18/2021	Analysis Date: 8/18/2021	SeqNo: 2844372	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62041	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62041	RunNo: 80630								
Prep Date: 8/18/2021	Analysis Date: 8/18/2021	SeqNo: 2844373	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.2	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2108600

20-Aug-21

Client: EOG
Project: Federal CM 1

Sample ID: MB-61957	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61957	RunNo: 80552								
Prep Date: 8/13/2021	Analysis Date: 8/14/2021	SeqNo: 2840705	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	70	130			

Sample ID: LCS-61957	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61957	RunNo: 80552								
Prep Date: 8/13/2021	Analysis Date: 8/14/2021	SeqNo: 2840707	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	68.9	141			
Surr: DNOP	5.7		5.000		114	70	130			

Sample ID: MB-61958	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61958	RunNo: 80568								
Prep Date: 8/13/2021	Analysis Date: 8/15/2021	SeqNo: 2841995	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		110	70	130			

Sample ID: LCS-61958	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61958	RunNo: 80568								
Prep Date: 8/13/2021	Analysis Date: 8/15/2021	SeqNo: 2842047	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	141			
Surr: DNOP	5.0		5.000		100	70	130			

Sample ID: MB-61990	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 61990	RunNo: 80597								
Prep Date: 8/16/2021	Analysis Date: 8/17/2021	SeqNo: 2843079	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		128	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2108600

20-Aug-21

Client: EOG
Project: Federal CM 1

Sample ID: LCS-61990	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61990	RunNo: 80597								
Prep Date: 8/16/2021	Analysis Date: 8/17/2021	SeqNo: 2843080	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		5.000		115	70	130			

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 Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108600

20-Aug-21

Client: EOG
Project: Federal CM 1

Sample ID: ics-61950	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61950	RunNo: 80551								
Prep Date: 8/12/2021	Analysis Date: 8/13/2021	SeqNo: 2840648	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	101	78.6	131			
Surr: BFB	990		1000		99.1	70	130			

Sample ID: mb-61950	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61950	RunNo: 80551								
Prep Date: 8/12/2021	Analysis Date: 8/14/2021	SeqNo: 2840650	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	890		1000		89.4	70	130			

Sample ID: mb-61951	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 61951	RunNo: 80541								
Prep Date: 8/12/2021	Analysis Date: 8/16/2021	SeqNo: 2841040	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	870		1000		87.3	70	130			

Sample ID: ics-61951	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 61951	RunNo: 80541								
Prep Date: 8/12/2021	Analysis Date: 8/16/2021	SeqNo: 2841041	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.5	78.6	131			
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 Quantitative 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#: 2108600

20-Aug-21

Client: EOG
Project: Federal CM 1

Sample ID: LCS-61950	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61950	RunNo: 80551								
Prep Date: 8/12/2021	Analysis Date: 8/13/2021	SeqNo: 2840696	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	95.2	80	120			
Toluene	0.95	0.050	1.000	0	95.3	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.4	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.5	70	130			

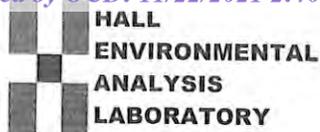
Sample ID: mb-61950	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61950	RunNo: 80551								
Prep Date: 8/12/2021	Analysis Date: 8/14/2021	SeqNo: 2840698	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			

Sample ID: mb-61951	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 61951	RunNo: 80541								
Prep Date: 8/12/2021	Analysis Date: 8/16/2021	SeqNo: 2841061	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	0.86		1.000		86.2	70	130			

Sample ID: lcs-61951	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 61951	RunNo: 80541								
Prep Date: 8/12/2021	Analysis Date: 8/16/2021	SeqNo: 2841062	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.8	80	120			
Toluene	0.90	0.050	1.000	0	89.9	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	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 Quantitative 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
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: 2108600

RcptNo: 1

Received By: Cheyenne Cason 8/12/2021 7:40:00 AM

Completed By: Sean Livingston 8/12/2021 9:28:09 AM

Reviewed By: HPG 8/11/21

Handwritten signature

Handwritten signature

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

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

Adjusted?

Checked by: JR 8/12/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

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

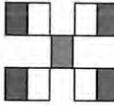
email or Fax#: Will@RangerEnv.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) Excel

Turn-Around Time: 5 days
 Standard Rush
 Project Name:
FEDERAL CM #1
 Project #: 5375

Project Manager: W. Kierdorf
 Sampler: Keith Copeland
 On Ice: Yes No
 # of Coolers: 2 0.4 - 0 = 0.4
 Cooler Temp (including CF): 2.1 = 0.2

Date	Time	Matrix	Sample Name
8/11/21	1200	Soil	PT1/0
	1205		PT1/2
	1210		PT1/3.5
	1215		PT2/0
	1220		PT2/2
	1224		PT2/3
	1230		PT4/0
	1240		PT4/3
	1245		PT6/1
	1251		PT6/3
	1300		PT8/0
	1309		PT8/2

Date: 8/11/21 1610
 Relinquished by: [Signature]
 Date: 8/11/21 1900
 Relinquished by: [Signature]



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

Analysis Request

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

Remarks: Bill to EOG Artesia

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



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

October 21, 2021

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

RE: Federal CM 1

OrderNo.: 2110764

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 27 sample(s) on 10/16/2021 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-1

Project: Federal CM 1

Collection Date: 10/14/2021 8:05:00 AM

Lab ID: 2110764-001

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	10/18/2021 10:34:33 PM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/18/2021 8:12:40 PM	63343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 8:12:40 PM	63343
Surr: DNOP	93.6	70-130		%Rec	1	10/18/2021 8:12:40 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	10/18/2021 12:02:32 PM	G82119
Surr: BFB	106	70-130		%Rec	1	10/18/2021 12:02:32 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	10/18/2021 12:02:32 PM	B82119
Toluene	ND	0.035		mg/Kg	1	10/18/2021 12:02:32 PM	B82119
Ethylbenzene	ND	0.035		mg/Kg	1	10/18/2021 12:02:32 PM	B82119
Xylenes, Total	ND	0.069		mg/Kg	1	10/18/2021 12:02:32 PM	B82119
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	10/18/2021 12:02:32 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-2

Project: Federal CM 1

Collection Date: 10/14/2021 8:09:00 AM

Lab ID: 2110764-002

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	59		mg/Kg	20	10/18/2021 10:46:58 PM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/18/2021 8:23:30 PM	63343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 8:23:30 PM	63343
Surr: DNOP	90.4	70-130		%Rec	1	10/18/2021 8:23:30 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/18/2021 12:25:58 PM	G82119
Surr: BFB	109	70-130		%Rec	1	10/18/2021 12:25:58 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	10/18/2021 12:25:58 PM	B82119
Toluene	ND	0.036		mg/Kg	1	10/18/2021 12:25:58 PM	B82119
Ethylbenzene	ND	0.036		mg/Kg	1	10/18/2021 12:25:58 PM	B82119
Xylenes, Total	ND	0.072		mg/Kg	1	10/18/2021 12:25:58 PM	B82119
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	10/18/2021 12:25:58 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-3

Project: Federal CM 1

Collection Date: 10/14/2021 8:12:00 AM

Lab ID: 2110764-003

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	10/18/2021 10:59:22 PM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/18/2021 8:34:22 PM	63343
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/18/2021 8:34:22 PM	63343
Surr: DNOP	95.9	70-130		%Rec	1	10/18/2021 8:34:22 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/18/2021 12:49:22 PM	G82119
Surr: BFB	109	70-130		%Rec	1	10/18/2021 12:49:22 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/18/2021 12:49:22 PM	B82119
Toluene	ND	0.048		mg/Kg	1	10/18/2021 12:49:22 PM	B82119
Ethylbenzene	ND	0.048		mg/Kg	1	10/18/2021 12:49:22 PM	B82119
Xylenes, Total	ND	0.095		mg/Kg	1	10/18/2021 12:49:22 PM	B82119
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	10/18/2021 12:49:22 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: B-4

Project: Federal CM 1

Collection Date: 10/14/2021 8:16:00 AM

Lab ID: 2110764-004

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	10/18/2021 11:11:47 PM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/18/2021 8:45:11 PM	63343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 8:45:11 PM	63343
Surr: DNOP	82.6	70-130		%Rec	1	10/18/2021 8:45:11 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/18/2021 3:33:52 PM	G82119
Surr: BFB	108	70-130		%Rec	1	10/18/2021 3:33:52 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/18/2021 3:33:52 PM	B82119
Toluene	ND	0.046		mg/Kg	1	10/18/2021 3:33:52 PM	B82119
Ethylbenzene	ND	0.046		mg/Kg	1	10/18/2021 3:33:52 PM	B82119
Xylenes, Total	ND	0.091		mg/Kg	1	10/18/2021 3:33:52 PM	B82119
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	10/18/2021 3:33:52 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2110764

Date Reported: 10/21/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-1

Project: Federal CM 1

Collection Date: 10/14/2021 8:52:00 AM

Lab ID: 2110764-005

Matrix: MEOH (SOIL) Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	100	59		mg/Kg	20	10/18/2021 11:24:11 PM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/18/2021 8:56:05 PM	63343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 8:56:05 PM	63343
Surr: DNOP	97.6	70-130		%Rec	1	10/18/2021 8:56:05 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	10/18/2021 3:57:12 PM	G82119
Surr: BFB	109	70-130		%Rec	1	10/18/2021 3:57:12 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/18/2021 3:57:12 PM	B82119
Toluene	ND	0.051		mg/Kg	1	10/18/2021 3:57:12 PM	B82119
Ethylbenzene	ND	0.051		mg/Kg	1	10/18/2021 3:57:12 PM	B82119
Xylenes, Total	ND	0.10		mg/Kg	1	10/18/2021 3:57:12 PM	B82119
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	10/18/2021 3:57:12 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-2

Project: Federal CM 1

Collection Date: 10/14/2021 8:55:00 AM

Lab ID: 2110764-006

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	280	60		mg/Kg	20	10/18/2021 11:36:36 PM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/18/2021 9:06:56 PM	63343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 9:06:56 PM	63343
Surr: DNOP	92.4	70-130		%Rec	1	10/18/2021 9:06:56 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.5		mg/Kg	1	10/18/2021 4:20:38 PM	G82119
Surr: BFB	107	70-130		%Rec	1	10/18/2021 4:20:38 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.033		mg/Kg	1	10/18/2021 4:20:38 PM	B82119
Toluene	ND	0.065		mg/Kg	1	10/18/2021 4:20:38 PM	B82119
Ethylbenzene	ND	0.065		mg/Kg	1	10/18/2021 4:20:38 PM	B82119
Xylenes, Total	ND	0.13		mg/Kg	1	10/18/2021 4:20:38 PM	B82119
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	10/18/2021 4:20:38 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-3

Project: Federal CM 1

Collection Date: 10/14/2021 9:00:00 AM

Lab ID: 2110764-007

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	320	60		mg/Kg	20	10/19/2021 12:13:49 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/18/2021 9:17:47 PM	63343
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/18/2021 9:17:47 PM	63343
Surr: DNOP	102	70-130		%Rec	1	10/18/2021 9:17:47 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	10/18/2021 4:43:59 PM	G82119
Surr: BFB	106	70-130		%Rec	1	10/18/2021 4:43:59 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	10/18/2021 4:43:59 PM	B82119
Toluene	ND	0.041		mg/Kg	1	10/18/2021 4:43:59 PM	B82119
Ethylbenzene	ND	0.041		mg/Kg	1	10/18/2021 4:43:59 PM	B82119
Xylenes, Total	ND	0.082		mg/Kg	1	10/18/2021 4:43:59 PM	B82119
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	10/18/2021 4:43:59 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-4

Project: Federal CM 1

Collection Date: 10/14/2021 9:03:00 AM

Lab ID: 2110764-008

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	470	60		mg/Kg	20	10/19/2021 12:26:13 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/18/2021 9:28:38 PM	63343
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/18/2021 9:28:38 PM	63343
Surr: DNOP	81.2	70-130		%Rec	1	10/18/2021 9:28:38 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	7.0		mg/Kg	1	10/18/2021 5:07:21 PM	G82119
Surr: BFB	110	70-130		%Rec	1	10/18/2021 5:07:21 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.035		mg/Kg	1	10/18/2021 5:07:21 PM	B82119
Toluene	ND	0.070		mg/Kg	1	10/18/2021 5:07:21 PM	B82119
Ethylbenzene	ND	0.070		mg/Kg	1	10/18/2021 5:07:21 PM	B82119
Xylenes, Total	ND	0.14		mg/Kg	1	10/18/2021 5:07:21 PM	B82119
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	10/18/2021 5:07:21 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-5

Project: Federal CM 1

Collection Date: 10/14/2021 9:20:00 AM

Lab ID: 2110764-009

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	290	60		mg/Kg	20	10/19/2021 12:38:37 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/18/2021 9:39:26 PM	63343
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/18/2021 9:39:26 PM	63343
Surr: DNOP	86.3	70-130		%Rec	1	10/18/2021 9:39:26 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	10/18/2021 5:30:41 PM	G82119
Surr: BFB	111	70-130		%Rec	1	10/18/2021 5:30:41 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	10/18/2021 5:30:41 PM	B82119
Toluene	ND	0.045		mg/Kg	1	10/18/2021 5:30:41 PM	B82119
Ethylbenzene	ND	0.045		mg/Kg	1	10/18/2021 5:30:41 PM	B82119
Xylenes, Total	ND	0.090		mg/Kg	1	10/18/2021 5:30:41 PM	B82119
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	10/18/2021 5:30:41 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-6

Project: Federal CM 1

Collection Date: 10/14/2021 9:24:00 AM

Lab ID: 2110764-010

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	300	59		mg/Kg	20	10/19/2021 12:51:02 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/18/2021 9:50:14 PM	63343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 9:50:14 PM	63343
Surr: DNOP	86.8	70-130		%Rec	1	10/18/2021 9:50:14 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	10/18/2021 5:53:58 PM	G82119
Surr: BFB	111	70-130		%Rec	1	10/18/2021 5:53:58 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	10/18/2021 5:53:58 PM	B82119
Toluene	ND	0.040		mg/Kg	1	10/18/2021 5:53:58 PM	B82119
Ethylbenzene	ND	0.040		mg/Kg	1	10/18/2021 5:53:58 PM	B82119
Xylenes, Total	ND	0.081		mg/Kg	1	10/18/2021 5:53:58 PM	B82119
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	10/18/2021 5:53:58 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-7

Project: Federal CM 1

Collection Date: 10/14/2021 9:27:00 AM

Lab ID: 2110764-011

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	720	60		mg/Kg	20	10/19/2021 1:03:26 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/18/2021 10:01:00 PM	63343
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 10:01:00 PM	63343
Surr: DNOP	80.6	70-130		%Rec	1	10/18/2021 10:01:00 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	10/18/2021 6:17:27 PM	G82119
Surr: BFB	107	70-130		%Rec	1	10/18/2021 6:17:27 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	10/18/2021 6:17:27 PM	B82119
Toluene	ND	0.032		mg/Kg	1	10/18/2021 6:17:27 PM	B82119
Ethylbenzene	ND	0.032		mg/Kg	1	10/18/2021 6:17:27 PM	B82119
Xylenes, Total	ND	0.065		mg/Kg	1	10/18/2021 6:17:27 PM	B82119
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	10/18/2021 6:17:27 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-8

Project: Federal CM 1

Collection Date: 10/14/2021 9:31:00 AM

Lab ID: 2110764-012

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	640	60		mg/Kg	20	10/19/2021 1:15:51 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/18/2021 10:11:49 PM	63343
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/18/2021 10:11:49 PM	63343
Surr: DNOP	102	70-130		%Rec	1	10/18/2021 10:11:49 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	10/18/2021 6:41:04 PM	G82119
Surr: BFB	105	70-130		%Rec	1	10/18/2021 6:41:04 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	10/18/2021 6:41:04 PM	B82119
Toluene	ND	0.039		mg/Kg	1	10/18/2021 6:41:04 PM	B82119
Ethylbenzene	ND	0.039		mg/Kg	1	10/18/2021 6:41:04 PM	B82119
Xylenes, Total	ND	0.078		mg/Kg	1	10/18/2021 6:41:04 PM	B82119
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	10/18/2021 6:41:04 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-9

Project: Federal CM 1

Collection Date: 10/14/2021 9:50:00 AM

Lab ID: 2110764-013

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	510	59		mg/Kg	20	10/19/2021 1:28:16 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/18/2021 10:22:39 PM	63343
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/18/2021 10:22:39 PM	63343
Surr: DNOP	87.5	70-130		%Rec	1	10/18/2021 10:22:39 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg	1	10/18/2021 7:04:22 PM	G82119
Surr: BFB	107	70-130		%Rec	1	10/18/2021 7:04:22 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.030		mg/Kg	1	10/18/2021 7:04:22 PM	B82119
Toluene	ND	0.059		mg/Kg	1	10/18/2021 7:04:22 PM	B82119
Ethylbenzene	ND	0.059		mg/Kg	1	10/18/2021 7:04:22 PM	B82119
Xylenes, Total	ND	0.12		mg/Kg	1	10/18/2021 7:04:22 PM	B82119
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	10/18/2021 7:04:22 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-10

Project: Federal CM 1

Collection Date: 10/14/2021 9:54:00 AM

Lab ID: 2110764-014

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	500	60		mg/Kg	20	10/19/2021 1:40:40 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/18/2021 10:33:27 PM	63343
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/18/2021 10:33:27 PM	63343
Surr: DNOP	85.4	70-130		%Rec	1	10/18/2021 10:33:27 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	10/18/2021 8:14:24 PM	G82119
Surr: BFB	112	70-130		%Rec	1	10/18/2021 8:14:24 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	10/18/2021 8:14:24 PM	B82119
Toluene	ND	0.051		mg/Kg	1	10/18/2021 8:14:24 PM	B82119
Ethylbenzene	ND	0.051		mg/Kg	1	10/18/2021 8:14:24 PM	B82119
Xylenes, Total	ND	0.10		mg/Kg	1	10/18/2021 8:14:24 PM	B82119
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	10/18/2021 8:14:24 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-11

Project: Federal CM 1

Collection Date: 10/14/2021 9:57:00 AM

Lab ID: 2110764-015

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1000	60		mg/Kg	20	10/19/2021 1:53:05 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/18/2021 10:44:17 PM	63343
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/18/2021 10:44:17 PM	63343
Surr: DNOP	88.2	70-130		%Rec	1	10/18/2021 10:44:17 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	10/18/2021 5:50:00 PM	R82140
Surr: BFB	102	70-130		%Rec	1	10/18/2021 5:50:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.017		mg/Kg	1	10/18/2021 5:50:00 PM	R82140
Toluene	ND	0.033		mg/Kg	1	10/18/2021 5:50:00 PM	R82140
Ethylbenzene	ND	0.033		mg/Kg	1	10/18/2021 5:50:00 PM	R82140
Xylenes, Total	ND	0.066		mg/Kg	1	10/18/2021 5:50:00 PM	R82140
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	10/18/2021 5:50:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-12

Project: Federal CM 1

Collection Date: 10/14/2021 10:02:00 AM

Lab ID: 2110764-016

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	590	60		mg/Kg	20	10/19/2021 2:05:29 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	10/18/2021 10:55:08 PM	63343
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/18/2021 10:55:08 PM	63343
Surr: DNOP	84.6	70-130		%Rec	1	10/18/2021 10:55:08 PM	63343
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	10/18/2021 6:09:00 PM	R82140
Surr: BFB	105	70-130		%Rec	1	10/18/2021 6:09:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.016		mg/Kg	1	10/18/2021 6:09:00 PM	R82140
Toluene	ND	0.031		mg/Kg	1	10/18/2021 6:09:00 PM	R82140
Ethylbenzene	ND	0.031		mg/Kg	1	10/18/2021 6:09:00 PM	R82140
Xylenes, Total	ND	0.063		mg/Kg	1	10/18/2021 6:09:00 PM	R82140
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	10/18/2021 6:09:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-13

Project: Federal CM 1

Collection Date: 10/14/2021 10:27:00 AM

Lab ID: 2110764-017

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	300	59		mg/Kg	20	10/19/2021 2:42:42 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	6.4		mg/Kg	1	10/18/2021 5:50:38 PM	63353
Motor Oil Range Organics (MRO)	ND	32		mg/Kg	1	10/18/2021 5:50:38 PM	63353
Surr: DNOP	89.4	70-130		%Rec	1	10/18/2021 5:50:38 PM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	2.6		mg/Kg	1	10/18/2021 8:26:00 PM	R82140
Surr: BFB	105	70-130		%Rec	1	10/18/2021 8:26:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.013		mg/Kg	1	10/18/2021 8:26:00 PM	R82140
Toluene	ND	0.026		mg/Kg	1	10/18/2021 8:26:00 PM	R82140
Ethylbenzene	ND	0.026		mg/Kg	1	10/18/2021 8:26:00 PM	R82140
Xylenes, Total	ND	0.051		mg/Kg	1	10/18/2021 8:26:00 PM	R82140
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	10/18/2021 8:26:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-14

Project: Federal CM 1

Collection Date: 10/14/2021 10:32:00 AM

Lab ID: 2110764-018

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	370	61		mg/Kg	20	10/19/2021 2:55:06 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/19/2021 10:32:05 AM	63353
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/19/2021 10:32:05 AM	63353
Surr: DNOP	94.1	70-130		%Rec	1	10/19/2021 10:32:05 AM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	10/18/2021 8:45:00 PM	R82140
Surr: BFB	109	70-130		%Rec	1	10/18/2021 8:45:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.018		mg/Kg	1	10/18/2021 8:45:00 PM	R82140
Toluene	ND	0.036		mg/Kg	1	10/18/2021 8:45:00 PM	R82140
Ethylbenzene	ND	0.036		mg/Kg	1	10/18/2021 8:45:00 PM	R82140
Xylenes, Total	ND	0.072		mg/Kg	1	10/18/2021 8:45:00 PM	R82140
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	10/18/2021 8:45:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-15

Project: Federal CM 1

Collection Date: 10/14/2021 10:36:00 AM

Lab ID: 2110764-019

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	280	60		mg/Kg	20	10/19/2021 3:07:31 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	47	9.3		mg/Kg	1	10/19/2021 10:45:04 AM	63353
Motor Oil Range Organics (MRO)	69	47		mg/Kg	1	10/19/2021 10:45:04 AM	63353
Surr: DNOP	92.1	70-130		%Rec	1	10/19/2021 10:45:04 AM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	10/18/2021 9:05:00 PM	R82140
Surr: BFB	102	70-130		%Rec	1	10/18/2021 9:05:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.019		mg/Kg	1	10/18/2021 9:05:00 PM	R82140
Toluene	ND	0.037		mg/Kg	1	10/18/2021 9:05:00 PM	R82140
Ethylbenzene	ND	0.037		mg/Kg	1	10/18/2021 9:05:00 PM	R82140
Xylenes, Total	ND	0.075		mg/Kg	1	10/18/2021 9:05:00 PM	R82140
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	10/18/2021 9:05:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-16

Project: Federal CM 1

Collection Date: 10/14/2021 10:38:00 AM

Lab ID: 2110764-020

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	350	60		mg/Kg	20	10/19/2021 3:44:44 AM	63367
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	10/18/2021 6:45:26 PM	63353
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/18/2021 6:45:26 PM	63353
Surr: DNOP	91.3	70-130		%Rec	1	10/18/2021 6:45:26 PM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	2.5		mg/Kg	1	10/18/2021 9:24:00 PM	R82140
Surr: BFB	105	70-130		%Rec	1	10/18/2021 9:24:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.013		mg/Kg	1	10/18/2021 9:24:00 PM	R82140
Toluene	ND	0.025		mg/Kg	1	10/18/2021 9:24:00 PM	R82140
Ethylbenzene	ND	0.025		mg/Kg	1	10/18/2021 9:24:00 PM	R82140
Xylenes, Total	ND	0.051		mg/Kg	1	10/18/2021 9:24:00 PM	R82140
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	10/18/2021 9:24:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-17

Project: Federal CM 1

Collection Date: 10/14/2021 10:41:00 AM

Lab ID: 2110764-021

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	10/19/2021 12:03:06 AM	63373
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	23	9.2		mg/Kg	1	10/19/2021 11:10:27 AM	63353
Motor Oil Range Organics (MRO)	53	46		mg/Kg	1	10/19/2021 11:10:27 AM	63353
Surr: DNOP	91.2	70-130		%Rec	1	10/19/2021 11:10:27 AM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	10/18/2021 9:44:00 PM	R82140
Surr: BFB	105	70-130		%Rec	1	10/18/2021 9:44:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.019		mg/Kg	1	10/18/2021 9:44:00 PM	R82140
Toluene	ND	0.038		mg/Kg	1	10/18/2021 9:44:00 PM	R82140
Ethylbenzene	ND	0.038		mg/Kg	1	10/18/2021 9:44:00 PM	R82140
Xylenes, Total	ND	0.075		mg/Kg	1	10/18/2021 9:44:00 PM	R82140
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	10/18/2021 9:44:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW-1

Project: Federal CM 1

Collection Date: 10/14/2021 10:54:00 AM

Lab ID: 2110764-022

Matrix: MEOH (SOIL)

Received Date: 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	10/19/2021 12:15:27 AM	63373
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/18/2021 7:07:19 PM	63353
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/18/2021 7:07:19 PM	63353
Surr: DNOP	81.2	70-130		%Rec	1	10/18/2021 7:07:19 PM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.8		mg/Kg	1	10/18/2021 10:04:00 PM	R82140
Surr: BFB	104	70-130		%Rec	1	10/18/2021 10:04:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.029		mg/Kg	1	10/18/2021 10:04:00 PM	R82140
Toluene	ND	0.058		mg/Kg	1	10/18/2021 10:04:00 PM	R82140
Ethylbenzene	ND	0.058		mg/Kg	1	10/18/2021 10:04:00 PM	R82140
Xylenes, Total	ND	0.12		mg/Kg	1	10/18/2021 10:04:00 PM	R82140
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	10/18/2021 10:04:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW-1

Project: Federal CM 1

Collection Date: 10/14/2021 10:59:00 AM

Lab ID: 2110764-023

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	580	60		mg/Kg	20	10/19/2021 12:27:48 AM	63373
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/18/2021 7:18:14 PM	63353
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/18/2021 7:18:14 PM	63353
Surr: DNOP	88.0	70-130		%Rec	1	10/18/2021 7:18:14 PM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	10/18/2021 10:23:00 PM	R82140
Surr: BFB	102	70-130		%Rec	1	10/18/2021 10:23:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.020		mg/Kg	1	10/18/2021 10:23:00 PM	R82140
Toluene	ND	0.040		mg/Kg	1	10/18/2021 10:23:00 PM	R82140
Ethylbenzene	ND	0.040		mg/Kg	1	10/18/2021 10:23:00 PM	R82140
Xylenes, Total	ND	0.079		mg/Kg	1	10/18/2021 10:23:00 PM	R82140
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	10/18/2021 10:23:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-N

Project: Federal CM 1

Collection Date: 10/14/2021 11:04:00 AM

Lab ID: 2110764-024

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	470	60		mg/Kg	20	10/19/2021 12:40:09 AM	63373
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.3		mg/Kg	1	10/18/2021 7:29:09 PM	63353
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	10/18/2021 7:29:09 PM	63353
Surr: DNOP	102	70-130		%Rec	1	10/18/2021 7:29:09 PM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	10/18/2021 10:43:00 PM	R82140
Surr: BFB	104	70-130		%Rec	1	10/18/2021 10:43:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	10/18/2021 10:43:00 PM	R82140
Toluene	ND	0.045		mg/Kg	1	10/18/2021 10:43:00 PM	R82140
Ethylbenzene	ND	0.045		mg/Kg	1	10/18/2021 10:43:00 PM	R82140
Xylenes, Total	ND	0.090		mg/Kg	1	10/18/2021 10:43:00 PM	R82140
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	10/18/2021 10:43:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-S

Project: Federal CM 1

Collection Date: 10/14/2021 11:06:00 AM

Lab ID: 2110764-025

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1200	59		mg/Kg	20	10/19/2021 12:52:31 AM	63373
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/18/2021 7:40:02 PM	63353
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/18/2021 7:40:02 PM	63353
Surr: DNOP	97.9	70-130		%Rec	1	10/18/2021 7:40:02 PM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	10/18/2021 11:02:00 PM	R82140
Surr: BFB	103	70-130		%Rec	1	10/18/2021 11:02:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.018		mg/Kg	1	10/18/2021 11:02:00 PM	R82140
Toluene	ND	0.035		mg/Kg	1	10/18/2021 11:02:00 PM	R82140
Ethylbenzene	ND	0.035		mg/Kg	1	10/18/2021 11:02:00 PM	R82140
Xylenes, Total	ND	0.071		mg/Kg	1	10/18/2021 11:02:00 PM	R82140
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	10/18/2021 11:02:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WW-N

Project: Federal CM 1

Collection Date: 10/14/2021 11:14:00 AM

Lab ID: 2110764-026

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	190	60		mg/Kg	20	10/19/2021 1:04:51 AM	63373
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	23	9.5		mg/Kg	1	10/19/2021 11:35:25 AM	63353
Motor Oil Range Organics (MRO)	100	47		mg/Kg	1	10/19/2021 11:35:25 AM	63353
Surr: DNOP	79.7	70-130		%Rec	1	10/19/2021 11:35:25 AM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	10/18/2021 11:22:00 PM	R82140
Surr: BFB	102	70-130		%Rec	1	10/18/2021 11:22:00 PM	R82140
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.017		mg/Kg	1	10/18/2021 11:22:00 PM	R82140
Toluene	ND	0.033		mg/Kg	1	10/18/2021 11:22:00 PM	R82140
Ethylbenzene	ND	0.033		mg/Kg	1	10/18/2021 11:22:00 PM	R82140
Xylenes, Total	ND	0.066		mg/Kg	1	10/18/2021 11:22:00 PM	R82140
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	10/18/2021 11:22:00 PM	R82140

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110764**

Date Reported: **10/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WW-S

Project: Federal CM 1

Collection Date: 10/14/2021 11:16:00 AM

Lab ID: 2110764-027

Matrix: MEOH (SOIL) **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	410	59		mg/Kg	20	10/19/2021 1:17:12 AM	63373
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	10/19/2021 12:00:46 PM	63353
Motor Oil Range Organics (MRO)	49	45		mg/Kg	1	10/19/2021 12:00:46 PM	63353
Surr: DNOP	86.1	70-130		%Rec	1	10/19/2021 12:00:46 PM	63353
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/18/2021 8:37:43 PM	G82119
Surr: BFB	112	70-130		%Rec	1	10/18/2021 8:37:43 PM	G82119
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/18/2021 8:37:43 PM	B82119
Toluene	ND	0.048		mg/Kg	1	10/18/2021 8:37:43 PM	B82119
Ethylbenzene	ND	0.048		mg/Kg	1	10/18/2021 8:37:43 PM	B82119
Xylenes, Total	ND	0.096		mg/Kg	1	10/18/2021 8:37:43 PM	B82119
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	10/18/2021 8:37:43 PM	B82119

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110764

21-Oct-21

Client: EOG
Project: Federal CM 1

Sample ID: MB-63367	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63367	RunNo: 82117								
Prep Date: 10/18/2021	Analysis Date: 10/18/2021	SeqNo: 2909877	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63367	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63367	RunNo: 82117								
Prep Date: 10/18/2021	Analysis Date: 10/18/2021	SeqNo: 2909878	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.1	90	110			

Sample ID: MB-63373	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63373	RunNo: 82151								
Prep Date: 10/18/2021	Analysis Date: 10/18/2021	SeqNo: 2910803	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63373	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63373	RunNo: 82151								
Prep Date: 10/18/2021	Analysis Date: 10/18/2021	SeqNo: 2910804	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2110764

21-Oct-21

Client: EOG
Project: Federal CM 1

Sample ID: LCS-63343	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63343	RunNo: 82125								
Prep Date: 10/18/2021	Analysis Date: 10/18/2021	SeqNo: 2909300	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	111	68.9	135			
Surr: DNOP	4.5		5.000		90.8	70	130			

Sample ID: MB-63343	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63343	RunNo: 82125								
Prep Date: 10/18/2021	Analysis Date: 10/18/2021	SeqNo: 2909301	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	8.0		10.00		80.3	70	130			

Sample ID: LCS-63353	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63353	RunNo: 82125								
Prep Date: 10/18/2021	Analysis Date: 10/18/2021	SeqNo: 2910288	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	68.9	135			
Surr: DNOP	5.2		5.000		103	70	130			

Sample ID: MB-63353	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63353	RunNo: 82125								
Prep Date: 10/18/2021	Analysis Date: 10/18/2021	SeqNo: 2910289	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		85.9	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 Quantitative 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#: 2110764

21-Oct-21

Client: EOG
Project: Federal CM 1

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G82119	RunNo: 82119								
Prep Date:	Analysis Date: 10/18/2021	SeqNo: 2909616			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		111	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G82119	RunNo: 82119								
Prep Date:	Analysis Date: 10/18/2021	SeqNo: 2909617			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	114	78.6	131			
Surr: BFB	1200		1000		120	70	130			

Sample ID: MB-Water	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: R82140	RunNo: 82140								
Prep Date:	Analysis Date: 10/18/2021	SeqNo: 2910074			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: 2.5ug gro LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: R82140	RunNo: 82140								
Prep Date:	Analysis Date: 10/18/2021	SeqNo: 2910080			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	109	78.6	131			
Surr: BFB	1200		1000		125	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2110764

21-Oct-21

Client: EOG
Project: Federal CM 1

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B82119	RunNo: 82119								
Prep Date:	Analysis Date: 10/18/2021	SeqNo: 2909665	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	0.93		1.000		92.7	70	130			

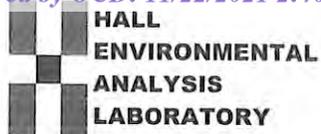
Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B82119	RunNo: 82119								
Prep Date:	Analysis Date: 10/18/2021	SeqNo: 2909666	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.8	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.5	70	130			

Sample ID: MB-Water	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R82140	RunNo: 82140								
Prep Date:	Analysis Date: 10/18/2021	SeqNo: 2910129	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	0.91		1.000		90.9	70	130			

Sample ID: 100ng btex LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R82140	RunNo: 82140								
Prep Date:	Analysis Date: 10/18/2021	SeqNo: 2910132	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	92.5	80	120			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.9	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 Quantitative 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
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: 2110764

RcptNo: 1

Received By: Cheyenne Cason 10/16/2021 7:50:00 AM

Handwritten signature

Completed By: Cheyenne Cason 10/16/2021 8:20:19 AM

Handwritten signature

Reviewed By: CW 10/16/2021

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: CW 10/16/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date: By Whom: Via: [] eMail [] Phone [] Fax [] In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 5.4, Good, [], [], [], []



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Turn-Around Time: _____
 Standard Rush *24-HOUR*
 Project Name: *FEDERAL CM-1*
 Project #: 5375

Project Manager: W. Kierdorf
 Sampler: *W. KIERDORF / L. KENNEDY*
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): *5.4 - 0 = 5.4*

Container Type and #	Preservative Type	HEAL No.
<i>1 x 4oz Jar</i>	<i>ICE</i>	<i>013</i>
		<i>014</i>
		<i>015</i>
		<i>016</i>
		<i>017</i>
		<i>018</i>
		<i>019</i>
		<i>020</i>
		<i>021</i>
		<i>022</i>
		<i>023</i>
		<i>024</i>

Received by: *[Signature]* Date: *10/15/07* Time: *700*
 Received by: *[Signature]* Date: *10/16/07* Time: *0750*

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

Date	Time	Matrix	Sample Name
<i>10/14/07</i>	<i>0950</i>	<i>SOIL</i>	<i>S-9</i>
	<i>0954</i>		<i>S-10</i>
	<i>0957</i>		<i>S-11</i>
	<i>1002</i>		<i>S-12</i>
	<i>1007</i>		<i>S-13</i>
	<i>1032</i>		<i>S-14</i>
	<i>1036</i>		<i>S-15</i>
	<i>1038</i>		<i>S-16</i>
	<i>1041</i>		<i>S-17</i>
	<i>1054</i>		<i>NW-1</i>
	<i>1059</i>		<i>SW-1</i>
	<i>1104</i>		<i>EW-N</i>

Relinquished by: *[Signature]* Date: *10/15/07* Time: *700*
 Relinquished by: *[Signature]* Date: *10/15/07* Time: *1900*

Analysis Request

BTEX (8021)	<input checked="" type="checkbox"/>
TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
Chloride (EPA 300)	<input checked="" type="checkbox"/>

Remarks: Bill to EOG Artesia

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



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

October 29, 2021

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

RE: EOG Artesia Federal CM 1

OrderNo.: 2110B19

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/23/2021 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2110B19**

Date Reported: **10/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WWN-A

Project: EOG Artesia Federal CM 1

Collection Date: 10/22/2021 8:37:00 AM

Lab ID: 2110B19-001

Matrix: MEOH (SOIL)

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	560	60		mg/Kg	20	10/25/2021 6:46:17 PM	63548
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/25/2021 10:44:11 AM	63518
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/25/2021 10:44:11 AM	63518
Surr: DNOP	76.2	70-130		%Rec	1	10/25/2021 10:44:11 AM	63518
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.6		mg/Kg	1	10/25/2021 9:22:27 AM	G82332
Surr: BFB	98.6	70-130		%Rec	1	10/25/2021 9:22:27 AM	G82332
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.033		mg/Kg	1	10/25/2021 9:22:27 AM	B82332
Toluene	ND	0.066		mg/Kg	1	10/25/2021 9:22:27 AM	B82332
Ethylbenzene	ND	0.066		mg/Kg	1	10/25/2021 9:22:27 AM	B82332
Xylenes, Total	ND	0.13		mg/Kg	1	10/25/2021 9:22:27 AM	B82332
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	10/25/2021 9:22:27 AM	B82332

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2110B19

Date Reported: 10/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW-1-A

Project: EOG Artesia Federal CM 1

Collection Date: 10/22/2021 8:40:00 AM

Lab ID: 2110B19-002

Matrix: MEOH (SOIL)

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	61		mg/Kg	20	10/25/2021 6:58:42 PM	63548
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/25/2021 5:19:15 PM	63518
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/25/2021 5:19:15 PM	63518
Surr: DNOP	99.4	70-130		%Rec	1	10/25/2021 5:19:15 PM	63518
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.7		mg/Kg	1	10/25/2021 9:45:54 AM	G82332
Surr: BFB	98.6	70-130		%Rec	1	10/25/2021 9:45:54 AM	G82332
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.034		mg/Kg	1	10/25/2021 9:45:54 AM	B82332
Toluene	ND	0.067		mg/Kg	1	10/25/2021 9:45:54 AM	B82332
Ethylbenzene	ND	0.067		mg/Kg	1	10/25/2021 9:45:54 AM	B82332
Xylenes, Total	ND	0.13		mg/Kg	1	10/25/2021 9:45:54 AM	B82332
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	10/25/2021 9:45:54 AM	B82332

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Page 2 of 11

Analytical Report

Lab Order **2110B19**

Date Reported: **10/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW-2-A

Project: EOG Artesia Federal CM 1

Collection Date: 10/22/2021 8:45:00 AM

Lab ID: 2110B19-003

Matrix: MEOH (SOIL)

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	470	60		mg/Kg	20	10/25/2021 7:11:06 PM	63548
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/25/2021 5:43:26 PM	63518
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/25/2021 5:43:26 PM	63518
Surr: DNOP	91.1	70-130		%Rec	1	10/25/2021 5:43:26 PM	63518
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	6.1		mg/Kg	1	10/25/2021 10:09:27 AM	G82332
Surr: BFB	104	70-130		%Rec	1	10/25/2021 10:09:27 AM	G82332
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.030		mg/Kg	1	10/25/2021 10:09:27 AM	B82332
Toluene	ND	0.061		mg/Kg	1	10/25/2021 10:09:27 AM	B82332
Ethylbenzene	ND	0.061		mg/Kg	1	10/25/2021 10:09:27 AM	B82332
Xylenes, Total	ND	0.12		mg/Kg	1	10/25/2021 10:09:27 AM	B82332
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	10/25/2021 10:09:27 AM	B82332

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110B19**

Date Reported: **10/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S11-A

Project: EOG Artesia Federal CM 1

Collection Date: 10/22/2021 8:48:00 AM

Lab ID: 2110B19-004

Matrix: MEOH (SOIL)

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	10/25/2021 7:23:30 PM	63548
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/25/2021 11:16:15 AM	63518
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/25/2021 11:16:15 AM	63518
Surr: DNOP	70.7	70-130		%Rec	1	10/25/2021 11:16:15 AM	63518
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/25/2021 10:33:04 AM	G82332
Surr: BFB	105	70-130		%Rec	1	10/25/2021 10:33:04 AM	G82332
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/25/2021 10:33:04 AM	B82332
Toluene	ND	0.050		mg/Kg	1	10/25/2021 10:33:04 AM	B82332
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2021 10:33:04 AM	B82332
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2021 10:33:04 AM	B82332
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	10/25/2021 10:33:04 AM	B82332

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110B19**

Date Reported: **10/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S7-A

Project: EOG Artesia Federal CM 1

Collection Date: 10/22/2021 8:52:00 AM

Lab ID: 2110B19-005

Matrix: MEOH (SOIL)

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	830	60		mg/Kg	20	10/25/2021 7:35:55 PM	63548
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/25/2021 6:07:43 PM	63518
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/25/2021 6:07:43 PM	63518
Surr: DNOP	91.5	70-130		%Rec	1	10/25/2021 6:07:43 PM	63518
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	10/25/2021 10:56:42 AM	G82332
Surr: BFB	104	70-130		%Rec	1	10/25/2021 10:56:42 AM	G82332
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	10/25/2021 10:56:42 AM	B82332
Toluene	ND	0.052		mg/Kg	1	10/25/2021 10:56:42 AM	B82332
Ethylbenzene	ND	0.052		mg/Kg	1	10/25/2021 10:56:42 AM	B82332
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2021 10:56:42 AM	B82332
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	10/25/2021 10:56:42 AM	B82332

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110B19**

Date Reported: **10/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S8-A

Project: EOG Artesia Federal CM 1

Collection Date: 10/22/2021 8:55:00 AM

Lab ID: 2110B19-006

Matrix: MEOH (SOIL)

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	830	60		mg/Kg	20	10/25/2021 7:48:19 PM	63548
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/25/2021 6:32:02 PM	63518
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/25/2021 6:32:02 PM	63518
Surr: DNOP	90.2	70-130		%Rec	1	10/25/2021 6:32:02 PM	63518
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/25/2021 11:20:24 AM	G82332
Surr: BFB	103	70-130		%Rec	1	10/25/2021 11:20:24 AM	G82332
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/25/2021 11:20:24 AM	B82332
Toluene	ND	0.046		mg/Kg	1	10/25/2021 11:20:24 AM	B82332
Ethylbenzene	ND	0.046		mg/Kg	1	10/25/2021 11:20:24 AM	B82332
Xylenes, Total	ND	0.093		mg/Kg	1	10/25/2021 11:20:24 AM	B82332
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	10/25/2021 11:20:24 AM	B82332

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110B19**

Date Reported: **10/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EW-N-A

Project: EOG Artesia Federal CM 1

Collection Date: 10/22/2021 9:00:00 AM

Lab ID: 2110B19-007

Matrix: MEOH (SOIL)

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	60		mg/Kg	20	10/25/2021 8:00:43 PM	63548
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/25/2021 11:48:31 AM	63518
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/25/2021 11:48:31 AM	63518
Surr: DNOP	66.4	70-130	S	%Rec	1	10/25/2021 11:48:31 AM	63518
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	7.6		mg/Kg	1	10/25/2021 11:43:46 AM	G82332
Surr: BFB	103	70-130		%Rec	1	10/25/2021 11:43:46 AM	G82332
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.038		mg/Kg	1	10/25/2021 11:43:46 AM	B82332
Toluene	ND	0.076		mg/Kg	1	10/25/2021 11:43:46 AM	B82332
Ethylbenzene	ND	0.076		mg/Kg	1	10/25/2021 11:43:46 AM	B82332
Xylenes, Total	ND	0.15		mg/Kg	1	10/25/2021 11:43:46 AM	B82332
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	10/25/2021 11:43:46 AM	B82332

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110B19

29-Oct-21

Client: EOG
Project: EOG Artesia Federal CM 1

Sample ID: MB-63548	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63548	RunNo: 82340								
Prep Date: 10/25/2021	Analysis Date: 10/25/2021	SeqNo: 2919863	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63548	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63548	RunNo: 82340								
Prep Date: 10/25/2021	Analysis Date: 10/25/2021	SeqNo: 2919865	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2110B19

29-Oct-21

Client: EOG
Project: EOG Artesia Federal CM 1

Sample ID: LCS-63518	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63518	RunNo: 82295								
Prep Date: 10/23/2021	Analysis Date: 10/25/2021	SeqNo: 2918548	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	90.1	68.9	135			
Surr: DNOP	4.1		5.000		82.4	70	130			

Sample ID: MB-63518	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63518	RunNo: 82295								
Prep Date: 10/23/2021	Analysis Date: 10/25/2021	SeqNo: 2918549	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	8.1		10.00		80.5	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2110B19

29-Oct-21

Client: EOG
Project: EOG Artesia Federal CM 1

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G82332	RunNo: 82332								
Prep Date:	Analysis Date: 10/25/2021	SeqNo: 2919419	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	990		1000		99.1	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G82332	RunNo: 82332								
Prep Date:	Analysis Date: 10/25/2021	SeqNo: 2919420	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	114	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2110B19

29-Oct-21

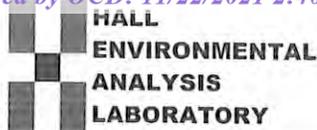
Client: EOG
Project: EOG Artesia Federal CM 1

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B82332	RunNo: 82332								
Prep Date:	Analysis Date: 10/25/2021	SeqNo: 2919464	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	0.84		1.000		83.6	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B82332	RunNo: 82332								
Prep Date:	Analysis Date: 10/25/2021	SeqNo: 2919465	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	94.7	80	120			
Toluene	0.98	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		84.1	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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
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: 2110B19

RcptNo: 1

Received By: Sean Livingston 10/23/2021 9:15:00 AM

Sean Livingston

Completed By: Sean Livingston 10/23/2021 9:39:17 AM

Sean Livingston

Reviewed By: *in 10/23/2021*

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: *Sean 10/23/21*

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	4.9	Good				



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

November 03, 2021

Will Kierdorf

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: EOG Artesia Federal CM 1

OrderNo.: 2110E13

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 14 sample(s) on 10/30/2021 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,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2110E13**

Date Reported: **11/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S7-B

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 10:33:00 AM

Lab ID: 2110E13-001

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	580	60		mg/Kg	20	11/1/2021 5:20:08 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/1/2021 3:01:18 PM	63672
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2021 3:01:18 PM	63672
Surr: DNOP	89.5	70-130		%Rec	1	11/1/2021 3:01:18 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	11/1/2021 10:48:00 AM	R82491
Surr: BFB	99.7	70-130		%Rec	1	11/1/2021 10:48:00 AM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.021		mg/Kg	1	11/1/2021 10:48:00 AM	R82491
Toluene	ND	0.042		mg/Kg	1	11/1/2021 10:48:00 AM	R82491
Ethylbenzene	ND	0.042		mg/Kg	1	11/1/2021 10:48:00 AM	R82491
Xylenes, Total	ND	0.085		mg/Kg	1	11/1/2021 10:48:00 AM	R82491
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/1/2021 10:48:00 AM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110E13**

Date Reported: **11/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S8-B

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 10:37:00 AM

Lab ID: 2110E13-002

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	540	61		mg/Kg	20	11/1/2021 5:57:21 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/1/2021 3:12:22 PM	63672
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/1/2021 3:12:22 PM	63672
Surr: DNOP	88.3	70-130		%Rec	1	11/1/2021 3:12:22 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	11/1/2021 11:08:00 AM	R82491
Surr: BFB	95.1	70-130		%Rec	1	11/1/2021 11:08:00 AM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.019		mg/Kg	1	11/1/2021 11:08:00 AM	R82491
Toluene	ND	0.037		mg/Kg	1	11/1/2021 11:08:00 AM	R82491
Ethylbenzene	ND	0.037		mg/Kg	1	11/1/2021 11:08:00 AM	R82491
Xylenes, Total	ND	0.075		mg/Kg	1	11/1/2021 11:08:00 AM	R82491
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/1/2021 11:08:00 AM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110E13**

Date Reported: **11/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S11-B

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 10:42:00 AM

Lab ID: 2110E13-003

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	610	60		mg/Kg	20	11/1/2021 6:09:45 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/1/2021 3:23:23 PM	63672
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2021 3:23:23 PM	63672
Surr: DNOP	107	70-130		%Rec	1	11/1/2021 3:23:23 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	11/1/2021 11:27:00 AM	R82491
Surr: BFB	98.2	70-130		%Rec	1	11/1/2021 11:27:00 AM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.017		mg/Kg	1	11/1/2021 11:27:00 AM	R82491
Toluene	ND	0.034		mg/Kg	1	11/1/2021 11:27:00 AM	R82491
Ethylbenzene	ND	0.034		mg/Kg	1	11/1/2021 11:27:00 AM	R82491
Xylenes, Total	ND	0.068		mg/Kg	1	11/1/2021 11:27:00 AM	R82491
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/1/2021 11:27:00 AM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110E13**

Date Reported: **11/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW1-B

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 10:50:00 AM

Lab ID: 2110E13-004

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	730	60		mg/Kg	20	11/1/2021 6:22:10 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/1/2021 3:34:27 PM	63672
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/1/2021 3:34:27 PM	63672
Surr: DNOP	87.3	70-130		%Rec	1	11/1/2021 3:34:27 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	11/1/2021 11:47:00 AM	R82491
Surr: BFB	99.3	70-130		%Rec	1	11/1/2021 11:47:00 AM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.022		mg/Kg	1	11/1/2021 11:47:00 AM	R82491
Toluene	ND	0.044		mg/Kg	1	11/1/2021 11:47:00 AM	R82491
Ethylbenzene	ND	0.044		mg/Kg	1	11/1/2021 11:47:00 AM	R82491
Xylenes, Total	ND	0.087		mg/Kg	1	11/1/2021 11:47:00 AM	R82491
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/1/2021 11:47:00 AM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2110E13

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EWN-B

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 10:55:00 AM

Lab ID: 2110E13-005

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	930	60		mg/Kg	20	11/1/2021 6:34:34 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/1/2021 3:45:27 PM	63672
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/1/2021 3:45:27 PM	63672
Surr: DNOP	80.4	70-130		%Rec	1	11/1/2021 3:45:27 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	11/1/2021 12:06:00 PM	R82491
Surr: BFB	98.6	70-130		%Rec	1	11/1/2021 12:06:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.020		mg/Kg	1	11/1/2021 12:06:00 PM	R82491
Toluene	ND	0.039		mg/Kg	1	11/1/2021 12:06:00 PM	R82491
Ethylbenzene	ND	0.039		mg/Kg	1	11/1/2021 12:06:00 PM	R82491
Xylenes, Total	ND	0.079		mg/Kg	1	11/1/2021 12:06:00 PM	R82491
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	11/1/2021 12:06:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2110E13

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S15-B

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 11:20:00 AM

Lab ID: 2110E13-006

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	570	60		mg/Kg	20	11/1/2021 7:11:47 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/1/2021 3:56:31 PM	63672
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2021 3:56:31 PM	63672
Surr: DNOP	68.0	70-130	S	%Rec	1	11/1/2021 3:56:31 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/1/2021 12:26:00 PM	R82491
Surr: BFB	103	70-130		%Rec	1	11/1/2021 12:26:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/1/2021 12:26:00 PM	R82491
Toluene	ND	0.047		mg/Kg	1	11/1/2021 12:26:00 PM	R82491
Ethylbenzene	ND	0.047		mg/Kg	1	11/1/2021 12:26:00 PM	R82491
Xylenes, Total	ND	0.094		mg/Kg	1	11/1/2021 12:26:00 PM	R82491
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/1/2021 12:26:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110E13**

Date Reported: **11/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S17-B

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 11:23:00 AM

Lab ID: 2110E13-007

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	610	60		mg/Kg	20	11/1/2021 7:24:12 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/1/2021 4:07:30 PM	63672
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/1/2021 4:07:30 PM	63672
Surr: DNOP	95.0	70-130		%Rec	1	11/1/2021 4:07:30 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.9		mg/Kg	1	11/1/2021 12:46:00 PM	R82491
Surr: BFB	99.0	70-130		%Rec	1	11/1/2021 12:46:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.029		mg/Kg	1	11/1/2021 12:46:00 PM	R82491
Toluene	ND	0.059		mg/Kg	1	11/1/2021 12:46:00 PM	R82491
Ethylbenzene	ND	0.059		mg/Kg	1	11/1/2021 12:46:00 PM	R82491
Xylenes, Total	ND	0.12		mg/Kg	1	11/1/2021 12:46:00 PM	R82491
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/1/2021 12:46:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2110E13

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S18-A

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 11:25:00 AM

Lab ID: 2110E13-008

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	110	60		mg/Kg	20	11/1/2021 7:36:36 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/1/2021 4:18:31 PM	63672
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2021 4:18:31 PM	63672
Surr: DNOP	88.4	70-130		%Rec	1	11/1/2021 4:18:31 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	11/1/2021 1:05:00 PM	R82491
Surr: BFB	97.1	70-130		%Rec	1	11/1/2021 1:05:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.021		mg/Kg	1	11/1/2021 1:05:00 PM	R82491
Toluene	ND	0.041		mg/Kg	1	11/1/2021 1:05:00 PM	R82491
Ethylbenzene	ND	0.041		mg/Kg	1	11/1/2021 1:05:00 PM	R82491
Xylenes, Total	ND	0.082		mg/Kg	1	11/1/2021 1:05:00 PM	R82491
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/1/2021 1:05:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2110E13

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S19-A

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 11:30:00 AM

Lab ID: 2110E13-009

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	750	60		mg/Kg	20	11/1/2021 7:49:01 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/1/2021 4:29:28 PM	63672
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2021 4:29:28 PM	63672
Surr: DNOP	89.0	70-130		%Rec	1	11/1/2021 4:29:28 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	11/1/2021 1:25:00 PM	R82491
Surr: BFB	101	70-130		%Rec	1	11/1/2021 1:25:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.018		mg/Kg	1	11/1/2021 1:25:00 PM	R82491
Toluene	ND	0.036		mg/Kg	1	11/1/2021 1:25:00 PM	R82491
Ethylbenzene	ND	0.036		mg/Kg	1	11/1/2021 1:25:00 PM	R82491
Xylenes, Total	ND	0.073		mg/Kg	1	11/1/2021 1:25:00 PM	R82491
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/1/2021 1:25:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2110E13

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W1

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 12:50:00 PM

Lab ID: 2110E13-010

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	150	60		mg/Kg	20	11/1/2021 8:01:25 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/1/2021 4:40:27 PM	63672
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/1/2021 4:40:27 PM	63672
Surr: DNOP	86.9	70-130		%Rec	1	11/1/2021 4:40:27 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	11/1/2021 1:45:00 PM	R82491
Surr: BFB	102	70-130		%Rec	1	11/1/2021 1:45:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.018		mg/Kg	1	11/1/2021 1:45:00 PM	R82491
Toluene	ND	0.035		mg/Kg	1	11/1/2021 1:45:00 PM	R82491
Ethylbenzene	ND	0.035		mg/Kg	1	11/1/2021 1:45:00 PM	R82491
Xylenes, Total	ND	0.070		mg/Kg	1	11/1/2021 1:45:00 PM	R82491
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	11/1/2021 1:45:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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Analytical Report

Lab Order **2110E13**

Date Reported: **11/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W2

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 12:57:00 PM

Lab ID: 2110E13-011

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	130	60		mg/Kg	20	11/1/2021 8:13:49 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/1/2021 4:51:23 PM	63672
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/1/2021 4:51:23 PM	63672
Surr: DNOP	87.0	70-130		%Rec	1	11/1/2021 4:51:23 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	11/1/2021 4:01:00 PM	R82491
Surr: BFB	92.3	70-130		%Rec	1	11/1/2021 4:01:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.016		mg/Kg	1	11/1/2021 4:01:00 PM	R82491
Toluene	ND	0.032		mg/Kg	1	11/1/2021 4:01:00 PM	R82491
Ethylbenzene	ND	0.032		mg/Kg	1	11/1/2021 4:01:00 PM	R82491
Xylenes, Total	ND	0.064		mg/Kg	1	11/1/2021 4:01:00 PM	R82491
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	11/1/2021 4:01:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2110E13

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W3

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 1:10:00 PM

Lab ID: 2110E13-012

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	200	60		mg/Kg	20	11/1/2021 8:26:13 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/1/2021 5:02:21 PM	63672
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/1/2021 5:02:21 PM	63672
Surr: DNOP	86.3	70-130		%Rec	1	11/1/2021 5:02:21 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	11/1/2021 4:21:00 PM	R82491
Surr: BFB	95.3	70-130		%Rec	1	11/1/2021 4:21:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.014		mg/Kg	1	11/1/2021 4:21:00 PM	R82491
Toluene	ND	0.028		mg/Kg	1	11/1/2021 4:21:00 PM	R82491
Ethylbenzene	ND	0.028		mg/Kg	1	11/1/2021 4:21:00 PM	R82491
Xylenes, Total	ND	0.057		mg/Kg	1	11/1/2021 4:21:00 PM	R82491
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/1/2021 4:21:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2110E13**

Date Reported: **11/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W4

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 1:15:00 PM

Lab ID: 2110E13-013

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	110	60		mg/Kg	20	11/1/2021 8:38:37 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/1/2021 5:13:17 PM	63672
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/1/2021 5:13:17 PM	63672
Surr: DNOP	82.6	70-130		%Rec	1	11/1/2021 5:13:17 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	6.2		mg/Kg	1	11/1/2021 4:41:00 PM	R82491
Surr: BFB	96.4	70-130		%Rec	1	11/1/2021 4:41:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.031		mg/Kg	1	11/1/2021 4:41:00 PM	R82491
Toluene	ND	0.062		mg/Kg	1	11/1/2021 4:41:00 PM	R82491
Ethylbenzene	ND	0.062		mg/Kg	1	11/1/2021 4:41:00 PM	R82491
Xylenes, Total	ND	0.12		mg/Kg	1	11/1/2021 4:41:00 PM	R82491
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/1/2021 4:41:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2110E13

Date Reported: 11/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: W5

Project: EOG Artesia Federal CM 1

Collection Date: 10/28/2021 1:25:00 PM

Lab ID: 2110E13-014

Matrix: SOIL

Received Date: 10/30/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	150	60		mg/Kg	20	11/1/2021 8:51:01 PM	63678
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/1/2021 5:24:13 PM	63672
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/1/2021 5:24:13 PM	63672
Surr: DNOP	87.2	70-130		%Rec	1	11/1/2021 5:24:13 PM	63672
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	11/1/2021 5:00:00 PM	R82491
Surr: BFB	99.3	70-130		%Rec	1	11/1/2021 5:00:00 PM	R82491
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.022		mg/Kg	1	11/1/2021 5:00:00 PM	R82491
Toluene	ND	0.043		mg/Kg	1	11/1/2021 5:00:00 PM	R82491
Ethylbenzene	ND	0.043		mg/Kg	1	11/1/2021 5:00:00 PM	R82491
Xylenes, Total	ND	0.087		mg/Kg	1	11/1/2021 5:00:00 PM	R82491
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/1/2021 5:00:00 PM	R82491

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110E13

03-Nov-21

Client: EOG
Project: EOG Artesia Federal CM 1

Sample ID: MB-63678	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63678	RunNo: 82512								
Prep Date: 11/1/2021	Analysis Date: 11/1/2021	SeqNo: 2928305	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63678	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63678	RunNo: 82512								
Prep Date: 11/1/2021	Analysis Date: 11/1/2021	SeqNo: 2928306	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2110E13

03-Nov-21

Client: EOG
Project: EOG Artesia Federal CM 1

Sample ID: LCS-63672	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63672	RunNo: 82477								
Prep Date: 11/1/2021	Analysis Date: 11/1/2021	SeqNo: 2927079	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	95.3	68.9	135			
Surr: DNOP	4.1		5.000		82.8	70	130			

Sample ID: MB-63672	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63672	RunNo: 82477								
Prep Date: 11/1/2021	Analysis Date: 11/1/2021	SeqNo: 2927080	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	8.8		10.00		87.6	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2110E13

03-Nov-21

Client: EOG
Project: EOG Artesia Federal CM 1

Sample ID: mb-water	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: R82491		RunNo: 82491							
Prep Date:	Analysis Date: 11/1/2021		SeqNo: 2927248		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	970		1000		97.5	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: R82491		RunNo: 82491							
Prep Date:	Analysis Date: 11/1/2021		SeqNo: 2927249		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	101	78.6	131			
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 Quantitative 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#: 2110E13

03-Nov-21

Client: EOG
Project: EOG Artesia Federal CM 1

Sample ID: mb-water	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R82491	RunNo: 82491								
Prep Date:	Analysis Date: 11/1/2021	SeqNo: 2927285	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		103	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R82491	RunNo: 82491								
Prep Date:	Analysis Date: 11/1/2021	SeqNo: 2927286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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
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: 2110E13 RcptNo: 1

Received By: Juan Rojas 10/30/2021 8:40:00 AM [Signature]

Completed By: Juan Rojas 10/30/2021 8:57:11 AM [Signature]

Reviewed By: [Signature] 10/30/2021

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: [Signature] 10/30/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.



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

November 17, 2021

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

RE: EOG Artesia Fed CM 1

OrderNo.: 2111700

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 5 sample(s) on 11/13/2021 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2111700**

Date Reported: **11/17/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: NW-1/C

Project: EOG Artesia Fed CM 1

Collection Date: 11/11/2021 9:20:00 AM

Lab ID: 2111700-001

Matrix: MEOH (SOIL)

Received Date: 11/13/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	330	60		mg/Kg	20	11/15/2021 12:59:46 PM	63931
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/15/2021 12:23:44 PM	63928
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2021 12:23:44 PM	63928
Surr: DNOP	90.5	70-130		%Rec	1	11/15/2021 12:23:44 PM	63928
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	8.0		mg/Kg	1	11/13/2021 6:40:00 PM	R82825
Surr: BFB	98.3	70-130		%Rec	1	11/13/2021 6:40:00 PM	R82825
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.040		mg/Kg	1	11/13/2021 6:40:00 PM	R82825
Toluene	ND	0.080		mg/Kg	1	11/13/2021 6:40:00 PM	R82825
Ethylbenzene	ND	0.080		mg/Kg	1	11/13/2021 6:40:00 PM	R82825
Xylenes, Total	ND	0.16		mg/Kg	1	11/13/2021 6:40:00 PM	R82825
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	11/13/2021 6:40:00 PM	R82825

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2111700

Date Reported: 11/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: EWN-C

Project: EOG Artesia Fed CM 1

Collection Date: 11/11/2021 9:28:00 AM

Lab ID: 2111700-002

Matrix: MEOH (SOIL)

Received Date: 11/13/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	340	60		mg/Kg	20	11/15/2021 1:12:10 PM	63931
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/15/2021 12:37:15 PM	63928
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/15/2021 12:37:15 PM	63928
Surr: DNOP	87.8	70-130		%Rec	1	11/15/2021 12:37:15 PM	63928
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	8.0		mg/Kg	1	11/13/2021 7:00:00 PM	R82825
Surr: BFB	99.4	70-130		%Rec	1	11/13/2021 7:00:00 PM	R82825
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.040		mg/Kg	1	11/13/2021 7:00:00 PM	R82825
Toluene	ND	0.080		mg/Kg	1	11/13/2021 7:00:00 PM	R82825
Ethylbenzene	ND	0.080		mg/Kg	1	11/13/2021 7:00:00 PM	R82825
Xylenes, Total	ND	0.16		mg/Kg	1	11/13/2021 7:00:00 PM	R82825
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	11/13/2021 7:00:00 PM	R82825

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Page 2 of 9

Analytical Report

Lab Order 2111700

Date Reported: 11/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-19-B

Project: EOG Artesia Fed CM 1

Collection Date: 11/11/2021 9:40:00 AM

Lab ID: 2111700-003

Matrix: MEOH (SOIL)

Received Date: 11/13/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	510	60		mg/Kg	20	11/15/2021 1:49:22 PM	63931
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/15/2021 12:50:40 PM	63928
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/15/2021 12:50:40 PM	63928
Surr: DNOP	87.9	70-130		%Rec	1	11/15/2021 12:50:40 PM	63928
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	11/13/2021 7:19:00 PM	R82825
Surr: BFB	98.9	70-130		%Rec	1	11/13/2021 7:19:00 PM	R82825
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.016		mg/Kg	1	11/13/2021 7:19:00 PM	R82825
Toluene	ND	0.032		mg/Kg	1	11/13/2021 7:19:00 PM	R82825
Ethylbenzene	ND	0.032		mg/Kg	1	11/13/2021 7:19:00 PM	R82825
Xylenes, Total	ND	0.065		mg/Kg	1	11/13/2021 7:19:00 PM	R82825
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	11/13/2021 7:19:00 PM	R82825

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order **2111700**

Date Reported: **11/17/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-17-C

Project: EOG Artesia Fed CM 1

Collection Date: 11/11/2021 9:45:00 AM

Lab ID: 2111700-004

Matrix: MEOH (SOIL)

Received Date: 11/13/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	460	60		mg/Kg	20	11/15/2021 2:26:36 PM	63931
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/15/2021 1:03:34 PM	63928
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/15/2021 1:03:34 PM	63928
Surr: DNOP	87.1	70-130		%Rec	1	11/15/2021 1:03:34 PM	63928
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	11/13/2021 7:39:00 PM	R82825
Surr: BFB	101	70-130		%Rec	1	11/13/2021 7:39:00 PM	R82825
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.026		mg/Kg	1	11/13/2021 7:39:00 PM	R82825
Toluene	ND	0.052		mg/Kg	1	11/13/2021 7:39:00 PM	R82825
Ethylbenzene	ND	0.052		mg/Kg	1	11/13/2021 7:39:00 PM	R82825
Xylenes, Total	ND	0.10		mg/Kg	1	11/13/2021 7:39:00 PM	R82825
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/13/2021 7:39:00 PM	R82825

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report

Lab Order 2111700

Date Reported: 11/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: S-11-C

Project: EOG Artesia Fed CM 1

Collection Date: 11/11/2021 9:50:00 AM

Lab ID: 2111700-005

Matrix: MEOH (SOIL)

Received Date: 11/13/2021 8:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	430	60		mg/Kg	20	11/15/2021 2:39:01 PM	63931
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/15/2021 1:16:43 PM	63928
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2021 1:16:43 PM	63928
Surr: DNOP	85.7	70-130		%Rec	1	11/15/2021 1:16:43 PM	63928
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	11/13/2021 7:58:00 PM	R82825
Surr: BFB	100	70-130		%Rec	1	11/13/2021 7:58:00 PM	R82825
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.022		mg/Kg	1	11/13/2021 7:58:00 PM	R82825
Toluene	ND	0.044		mg/Kg	1	11/13/2021 7:58:00 PM	R82825
Ethylbenzene	ND	0.044		mg/Kg	1	11/13/2021 7:58:00 PM	R82825
Xylenes, Total	ND	0.089		mg/Kg	1	11/13/2021 7:58:00 PM	R82825
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	11/13/2021 7:58:00 PM	R82825

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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2111700

17-Nov-21

Client: EOG
Project: EOG Artesia Fed CM 1

Sample ID: MB-63931	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63931	RunNo: 82840								
Prep Date: 11/15/2021	Analysis Date: 11/15/2021	SeqNo: 2942094	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63931	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63931	RunNo: 82840								
Prep Date: 11/15/2021	Analysis Date: 11/15/2021	SeqNo: 2942095	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E 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#: 2111700

17-Nov-21

Client: EOG
Project: EOG Artesia Fed CM 1

Sample ID: MB-63928	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63928	RunNo: 82832								
Prep Date: 11/15/2021	Analysis Date: 11/15/2021	SeqNo: 2940928	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	9.5		10.00		95.4	70	130			

Sample ID: LCS-63928	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63928	RunNo: 82832								
Prep Date: 11/15/2021	Analysis Date: 11/15/2021	SeqNo: 2940929	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	84.2	68.9	135			
Surr: DNOP	4.5		5.000		90.1	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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#: 2111700

17-Nov-21

Client: EOG
Project: EOG Artesia Fed CM 1

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: R82825		RunNo: 82825							
Prep Date:	Analysis Date: 11/13/2021		SeqNo: 2940444		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		95.7	70	130			

Sample ID: 2.5ug GRO lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: R82825		RunNo: 82825							
Prep Date:	Analysis Date: 11/13/2021		SeqNo: 2940445		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	101	78.6	131			
Surr: BFB	1100		1000		115	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E 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#: 2111700

17-Nov-21

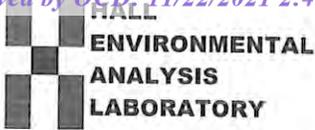
Client: EOG
Project: EOG Artesia Fed CM 1

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R82825	RunNo: 82825								
Prep Date:	Analysis Date: 11/13/2021	SeqNo: 2940464	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		107	70	130			

Sample ID: 100ng BTEX Ics	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R82825	RunNo: 82825								
Prep Date:	Analysis Date: 11/13/2021	SeqNo: 2940465	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	104	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2111700

RcptNo: 1

Received By: Cheyenne Cason

11/13/2021 8:40:00 AM

Handwritten signature

Completed By: Cheyenne Cason

11/13/2021 9:01:36 AM

Handwritten signature

Reviewed By: [Handwritten initials]

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by [Handwritten signature] 11/13/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 4.6, Good, [], [], []

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.
 Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210
 Ranger: PO Box 201179, Austin TX 78720
 Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com
 QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other
 EDD (Type) Excel

Turn-Around Time:
 Standard Rush 24 HOUR
 Project Name:
EOG Artesia - Fed CM #1
 Project #: 5375

Project Manager: W. Kierdorf
 Sampler: W. Kierdorf
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 4.6 - 0 = 4.6

Container Type and #
 Preservative Type
 HEAL No.

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/11/21	0920	Sr:1	NW-7/C	1402 Jar	Ice	211700
	0929		FWN-C			
	0940		S-19-B			
	0945		S-17-C			
	0950		S-11-C			

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

Date:	Time:	Relinquished by:	Via:	Date	Time
11/11/21	1245	W. Kierdorf		11/12/21	1345
Date:	Time:	Relinquished by:	Via:	Date	Time
11/12/21	0621			11/22/21	0840

Received by: W. Kierdorf
 Received by: Admin
 Remarks: Bill to EOG Artesia

11/13/21 1900 Admin
 CMC Barry 11/13/21 0840
 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 – 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 63028

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 63028
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/21/2021