



February 18, 2022

Vertex Project #: 21E-00123-011

Spill Closure Report: Warren ANW Federal #6
Unit J, Section 9, Township 19 South, Range 25 East
County: Eddy
API: 30-015-28786
Incident ID: nAPP2129353745

Prepared For: **EOG Resources, Inc.**
104 S. 4th Street
Artesia, New Mexico, 88210

New Mexico Oil Conservation Division – District 2 – Artesia

811 S. 1st Street
Artesia, New Mexico 88210

EOG Resources, Inc. (EOG) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for historical impacts that were discovered on October 15, 2021, at Warren ANW Federal #6, API 30-015-28786 (hereafter referred to as “Warren”). EOG submitted an initial C-141 Release Notification (Attachment 1) to New Mexico Oil Conservation Division (NMOCD) District 2 on October 20, 2021. Incident ID number nAPP2129353745 was assigned to this incident.

This letter provides a description of the assessment and remediation activities and demonstrates that closure criteria established in Table I of 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) are being met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this remediation site, with the understanding that restoration of the well site will occur immediately after approval as all oil and gas activities have been terminated and the site is being reclaimed per 19.15.29.13 NMAC.

Incident Description

The impacted area at Warren occurred on private land at 32.67377 N, -104.48769 W, approximately 7 miles southwest of Dayton, New Mexico. The legal description for the site is Unit J, Section 9, Township 19 South, Range 25 East in Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland. An aerial map of the site is included in Attachment 2.

The surrounding landscape is associated with ridges, fans, fan remnants and alluvial fans ranging between 1,100 and 5,400 feet. The climate is semi-arid with average annual precipitation ranging between 6 and 15 inches. Using information from United States Department of Agriculture, the dominant vegetation was determined to be principally tobosa, black grama and blue grama (United States Department of Agriculture, Natural Resources Conservation Service, 2021).

vertex.ca

3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001

The *Geological Map of New Mexico* indicates the surface geology at Warren is comprised primarily of QP–Piedmont alluvial deposits from the Holocene to lower Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2021). The United States Department of Agriculture Web Soil Survey characterizes the soil at the site as Reagan-Upton association. The soil is well-drained with a high runoff and low to moderately high moisture levels in the profile. The karst geology potential for Warren is medium (United States Department of the Interior, Bureau of Land Management, 2018).

There is no surface water located at Warren. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 9 miles east of the site. At Warren, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest active well to Warren is a water well located approximately 0.48 miles southeast of the site. It is a USGS monitoring well that provides a depth to groundwater reference. Data from 2012 indicate the USGS well had a depth to groundwater of 94 feet below ground surface (bgs; United States Department of the Interior, United States Geological Survey, 2021). Information pertaining to the depth to groundwater determination is included in Attachment 3.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the remediation was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on the data included in the closure criteria determination worksheet, the remediation area at Warren is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. The nearest groundwater well is less than 25 years old and located inside 0.5 miles from the site; however, the site is subject to NMOCD's strictest criteria as it is being reclaimed immediately after closure acceptance. The closure criteria for the site is determined to be associated with the following constituent concentration limits (Table 1).

Table 1. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS¹	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH ² (GRO+DRO+MRO)	100 mg/kg
	BTEX ³	50 mg/kg
	Benzene	10 mg/kg

¹Total dissolved solids (TDS)

²Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

³Benzene, toluene, ethylbenzene and xylenes (BTEX)

Remedial Actions

On September 29, 2021, Ranger Environmental Services, Inc. (Ranger) conducted initial site assessment activities through field screening procedures. Characterization sample points for Ranger's delineation are included in Figure 2 (Attachment 2). Characterization sample analytical data from Ranger's delineation are summarized in Attachment 4. Oversight of the remediation field work and confirmatory sampling were completed by Vertex.

Excavation of impacted soils was conducted between November 3, 2021, and January 13, 2022, with a Vertex representative on-site to conduct field screen procedures to determine final horizontal and vertical extents of the excavation area. The Daily Field Report(s) and associated photographs are included in Attachment 6. The north wall of the excavation was extended to the south edge of the drilling mud pit located directly north of the pad. Excavation into the pit was halted to preserve the structural integrity of the liner installed. The drilling pit was then sloped to a 45-degree angle to allow for the Geosynthetic Clay Liner (GCL) to be installed to prevent migration to the remediated area from the historical pit. The slope will also assist with shedding of any excess water that accumulates on the GCL through natural precipitation events. The following sidewall samples, WES22-37 through WES22-40 were above the strictest applicable criteria outlined in the NMAC 19.15.29 Table 1 and will be contained with the GCL. The Assessment and Reclamation Plan approved by both the surface landowner (Howell Revocable Trust) and mineral owner (Bureau of Land Management) addresses this action as part of the restoration of the site (Attachment 8). Installation of the GCL will take place prior to backfilling the location.

On November 10, 2021, following excavation activities, EOG provided 48-hour notification of confirmation sampling to NMOCD (Attachment 5), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. Between November 17, 2021, and February 11, 2022, Vertex collected a total of 84 five-point composite confirmatory samples from the base and side walls of the excavation, at depths ranging between ground surface and six feet bgs. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NMOCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis. On January 13, 2022, excavation was completed with approximately 4,021 total yards excavated and hauled off to Lea Land, LLC Landfill. Vertex collected an additional eight confirmatory samples on February 11, 2022, to meet NMOCD's 200 square-foot requirement. Final square footage of the excavation was 16,427 square feet.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sample analytical data are summarized in Attachment 6. Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented on Figure 2 (Attachment 2). Relevant equipment and prominent features/reference points at the site are mapped as well.

EOG Resources, Inc.
Warren ANW Federal #6, nAPP2129353745

2021 Spill Assessment and Closure
February 2022

Closure Request

Vertex recommends no additional action to address the remediation area at Warren. Laboratory analyses of confirmation samples collected at Warren show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs as presented in Table 1. There are no anticipated risks to human, ecological, or hydrological receptors at this release site.

Vertex requests that this incident (nAPP2129353745) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. EOG certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the remediation area at Warren.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575-988-2681 or mmoffitt@vertex.ca.

Chance Dixon

2/17/2022

Chance Dixon, B. Sc.
ENVIROMENTAL TECHNICIAN, REPORTING

Date

Michael Moffitt

2/17/2022

Michael Moffitt, B. Sc.
PROJECT MANAGER, REPORTING

Date

EOG Resources, Inc.
Warren ANW Federal #6, nAPP2129353745

2021 Spill Assessment and Closure
February 2022

Attachments

- Attachment 1. NMOCD C-141 Report
- Attachment 2. Figures
- Attachment 3. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 4. Summarized Laboratory Data Tables
- Attachment 5. Required 48-hour Notification of Confirmatory Sampling to Regulatory Agencies
- Attachment 6. Daily Field Reports with Photographs
- Attachment 7. Laboratory Data Reports and Chain of Custody Forms
- Attachment 8. Howell Ranch Reclamation Plan

EOG Resources, Inc.
Warren ANW Federal #6, nAPP2129353745

2021 Spill Assessment and Closure
February 2022

References

- New Mexico Bureau of Geology and Mineral Resources. (2021). *Interactive Geologic Map*. Retrieved from <http://geoinfo.nmt.edu>.
- New Mexico Energy, Minerals and Natural Resources Department, Mining and Minerals Division. (2021). *Registered Mines and Permits Search*. Retrieved from <https://wwwapps.emnrd.state.nm.us/MMD/MMDWebInfo/>.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2021). *Water Column/Average Depth to Water Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>.
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2021). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.
- United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karsts*.
- United States Department of the Interior, United States Geological Survey. (2021). *National Water Information System*. Retrieved from <https://waterdata.usgs.gov/nwis>
- United States Fish and Wildlife Service. (2021). *National Wetlands Inventory*. Retrieved from <https://www.fws.gov/wetlands/data/Mapper.html>.

EOG Resources, Inc.
Warren ANW Federal #6, nAPP2129353745

2021 Spill Assessment and Closure
February 2022

Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2129353745
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 # nAPP2129353745
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.67377 Longitude -104.48769
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Warren ANW Federal #6	Site Type Well Pad
Date Release Discovered 10/15/2021	API# (if applicable) 30-015-28786

Unit Letter	Section	Township	Range	County
J	9	19S	25E	Eddy

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

Nature and Volume of Release

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

<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 10/15/21 based on the impacted area footprint that the release more than likely breached the reportable volume threshold.**

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>10/20/2021</u> email: <u>Chase_Settle@eogresources.com</u> Telephone: <u>575-748-1471</u>
<u>OCD Only</u> Received by: _____ Date: _____

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	94 (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 ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

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

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

Signature: Chase Settle Date: 02/17/2022

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

OCD Only

Received by: _____ Date: _____

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Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: _____ Title: _____
 Signature: _____ Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

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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: 02/17/2022
 email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

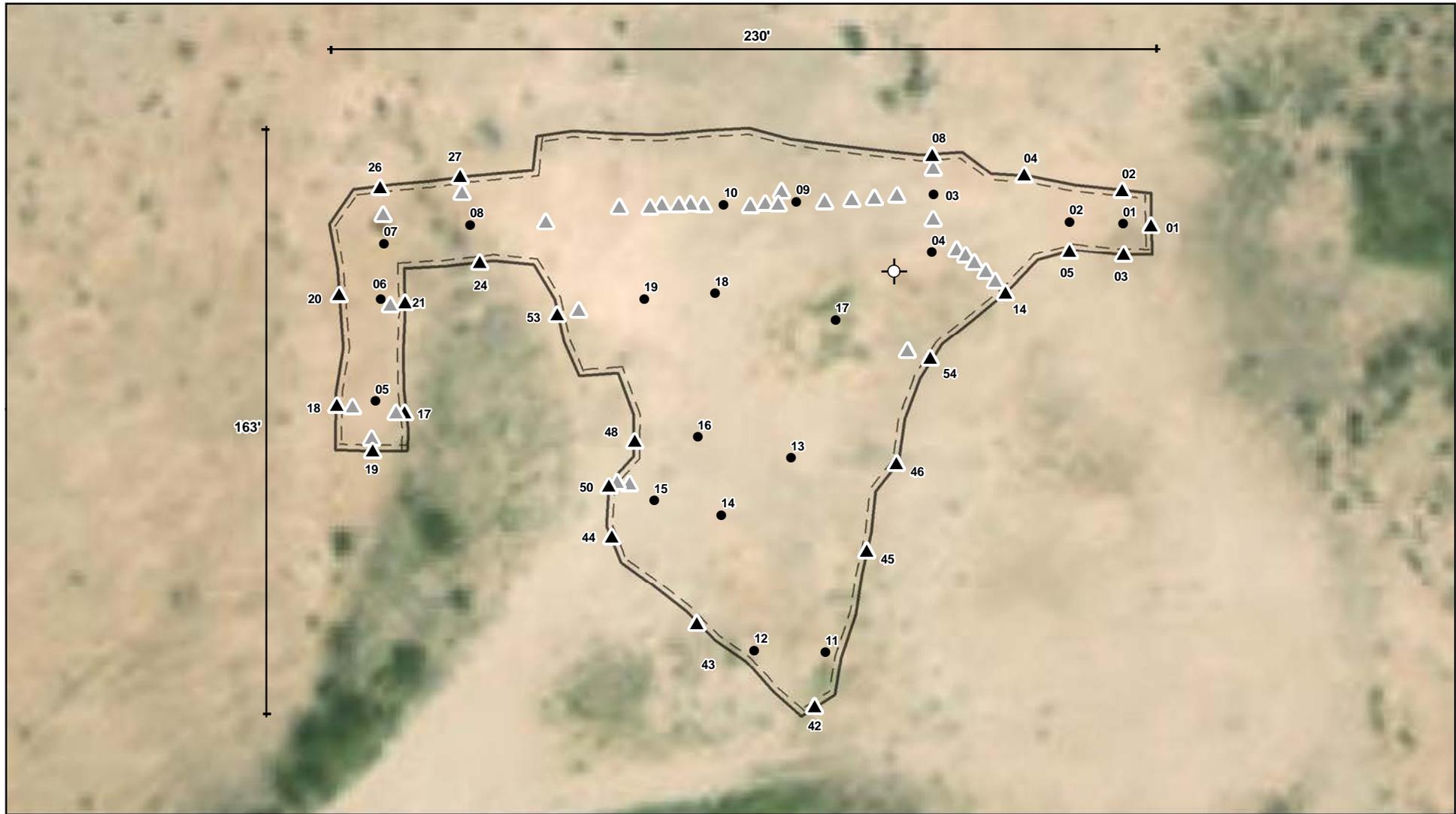
Received by: _____ Date: _____

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: Jennifer Nobui Date: 03/10/2022
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

ATTACHMENT 2

Document Path: G:\1-Projects\US PROJECTS\SEOC Resources Inc\22E-00123011 - Warren ANW Federal #6\Figure 1 Characterization Schematic Warren ANW Federal #6.mxd



- Base Sample (Prefixed by "BES21-")
- ▲ Wall Sample (Prefixed by "WES21-")
- ▲ Wall Sample (Excavated)
- ⊕ Wellhead
- ⊞ Approximate Excavation Area (16,261 sq. ft.)



0 5 10 20 30 ft
 Map Center:
 Lat/Long: 32.673650, -104.488023

NAD 1983 UTM Zone 13N
 Date: Feb 17/22



**Characterization Schematic
 Warren ANW Federal #6**

FIGURE:

3

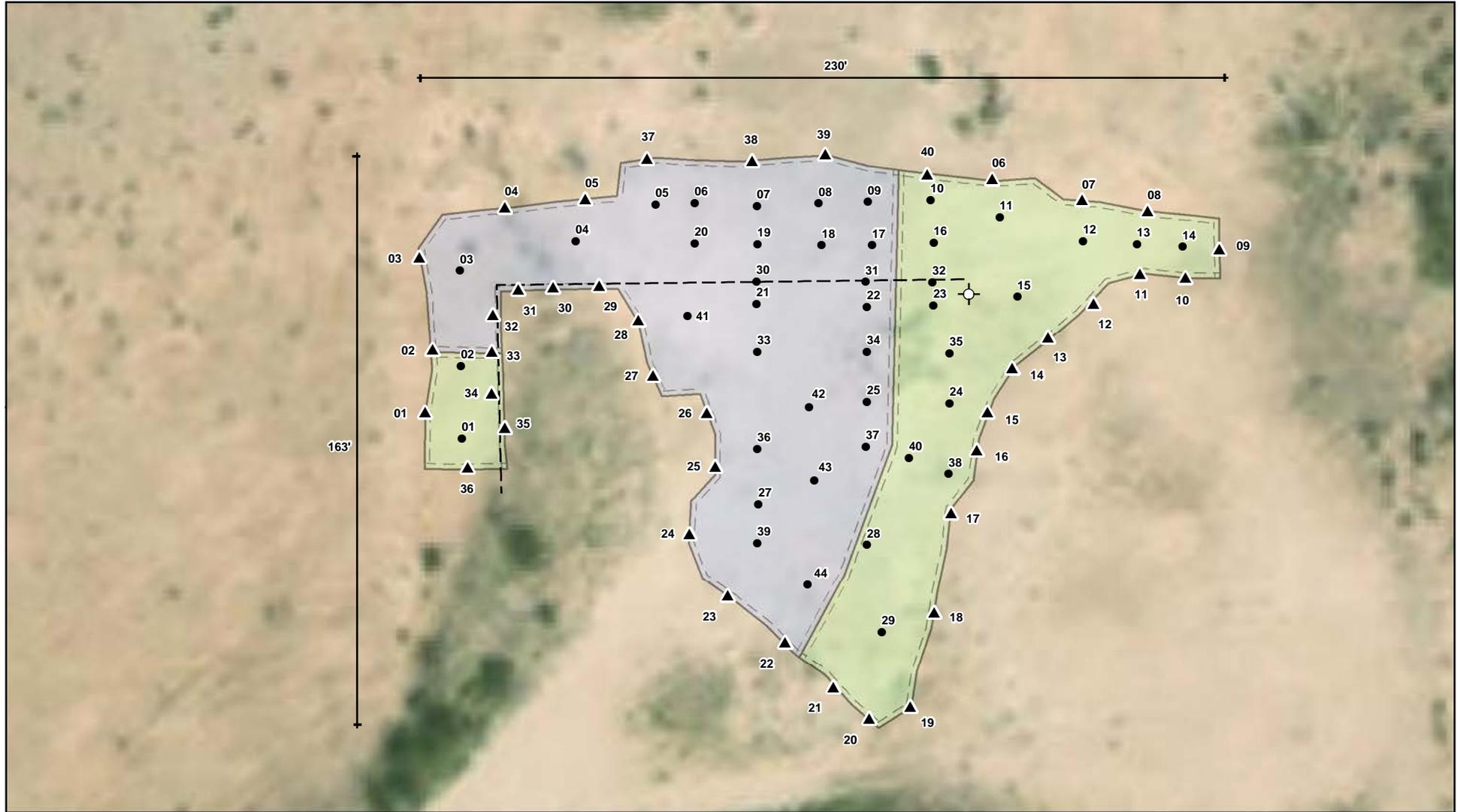


Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from ESRI, 2020. Borehole locations from GPS, Vertex Professional Services, Ltd., 2021.

VERSATILITY. EXPERTISE.

Document Path: G:\1-Projects\US PROJECTS\SEOC Resources Inc\22E-00123011 - Warren ANW Federal #6\Figure 2 Confirmation Schematic Warren ANW Federal #6.mxd



- Excavated Base Sample (Prefixed by "BES21-" or "BES22-")
- ▲ Excavated Wall Sample (Prefixed by "WES21-" or "WES22-")
- ⊕ Wellhead
- Exposed Pipeline
- Approximate Excavation Area - 4' Depth (9,628 sq. ft.)
- Approximate Excavation Area - 6' Depth (6,799 sq. ft.)



0 5 10 20 30 ft
 Map Center:
 Lat/Long: 32.673667, -104.488096

NAD 1983 UTM Zone 13N
 Date: Feb 14/22



**Confirmation Schematic
 Warren ANW Federal #6**

FIGURE:

2

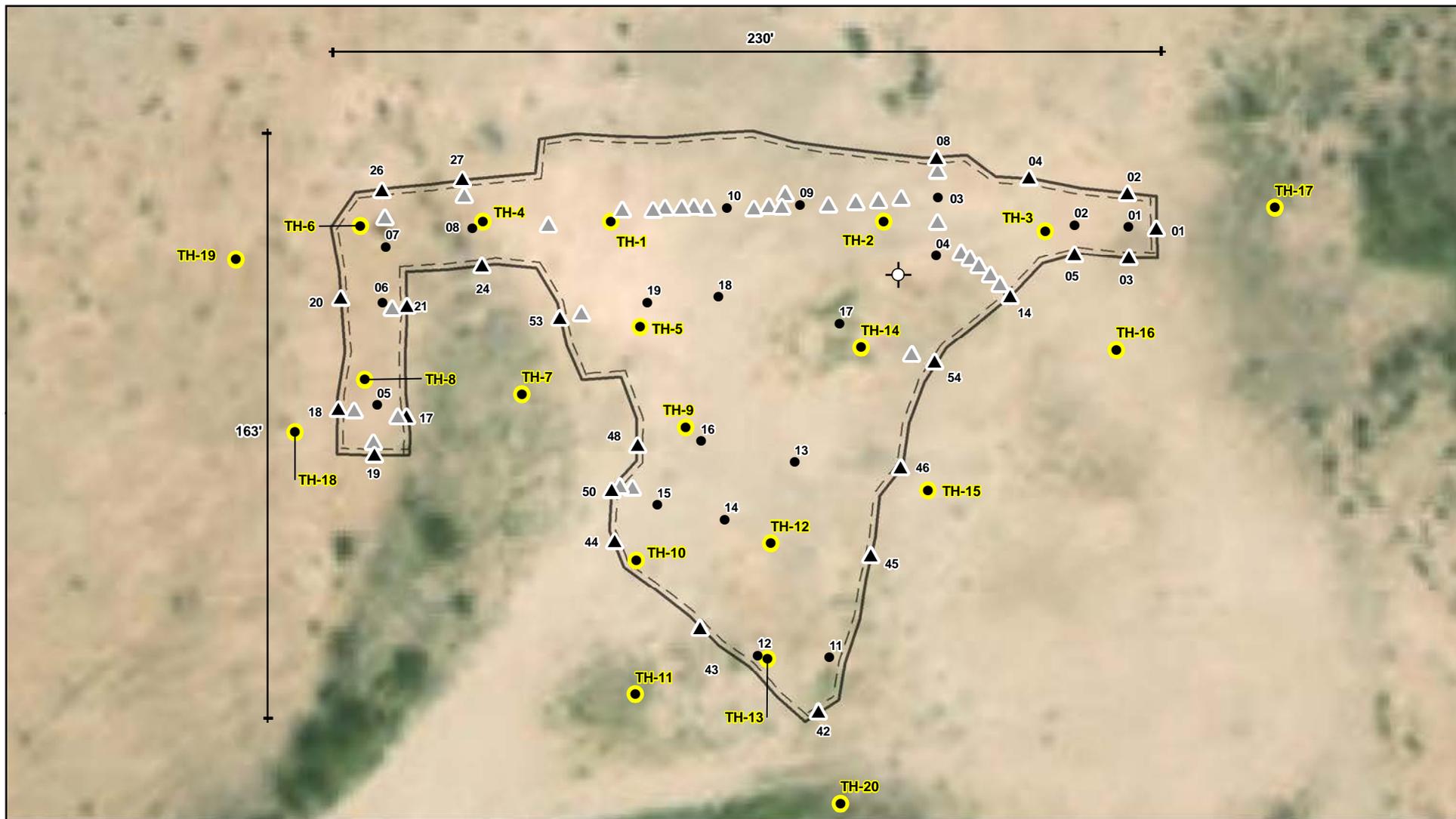


Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from ESRI, 2020. Borehole locations from GPS, Vertex Professional Services, Ltd., 2021.

VERSATILITY. EXPERTISE.

Document Path: G:\1-Projects\US PROJECTS\EOG Resources Inc\22E-00123011 - Warren ANW Federal #6\Figure 3 Characterization Schematic (Combined) Warren ANW Federal #6.mxd



- Base Sample (Prefixed by "BES21-")
- ▲ Wall Sample (Prefixed by "WES21-")
- ▲ Wall Sample (Excavated)
- ⊕ Wellhead
- Ranger Sample Points
- ⊠ Approximate Excavation Area (16,261 sq. ft.)



0 5 10 20 30 ft
 Map Center:
 Lat/Long: 32.673650, -104.488023

NAD 1983 UTM Zone 13N
 Date: Feb 17/22



**Characterization Schematic
 Combined Vertex and Ranger Locations
 Warren ANW Federal #6**

FIGURE:

3



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from ESRI, 2020. Borehole locations from GPS, Vertex Professional Services, Ltd., 2021.

VERSATILITY. EXPERTISE.

ATTACHMENT 3

NMIOSE Closest water Well

0.58 Miles (3,047 Feet)

Legend
Feature 1

32.681042,-104.483419

Warren ANW Federal #6



300 m



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 05333	2	2	09	19S	25E	548430 3616046*

Driller License: 353	Driller Company: OSBOURN DRILLING & PUMP CO.	
Driller Name: EXISTING WELL		
Drill Start Date: 04/18/1967	Drill Finish Date: 05/05/1967	Plug Date:
Log File Date: 05/12/1967	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 315 feet	Depth Water: 260 feet

Water Bearing Stratifications:	Top	Bottom	Description
	275	290	Sandstone/Gravel/Conglomerate
	290	303	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	280	312

Meter Number: 8784	Meter Make: MASTER	
Meter Serial Number: FL001	Meter Multiplier: 10.0000	
Number of Dials: 6	Meter Type: Diversion	
Unit of Measure: Barrels 42 gal.	Return Flow Percent:	
Usage Multiplier:	Reading Frequency:	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
02/25/2005	2005	19	A	RPT		0
03/10/2005	2005	4671	A	RPT		1.428
10/13/2005	2005	4822	A	ch		0.046
12/19/2005	2005	43967	A	jw		0
01/13/2006	2006	44260	A	jw		0.378
04/10/2006	2006	44260	A	ch		0

**YTD Meter Amounts:	Year	Amount
	2005	1.474
	2006	0.378

*UTM location was derived from PLSS - see Help

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10/22/21 12:27 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	WellDepth	DepthWater	Water Column	
RA 05333	RA	ED	ED	2	2	09	19S	25E	548430	3616046*		900	315	260	55	
RA 05900	RA	ED	ED	2	2	16	19S	25E	548442	3614424*		910	185	95	90	
RA 05450	RA	CH	CH	4	2	15	19S	25E	550057	3614015*		2364	204	80	124	
RA 05331	RA	ED	ED	1	1	4	05	19S	25E	546308	3616955*		2434	460	305	155
RA 04208	RA	ED	ED	2	4	03	19S	25E	550036	3616845*		2567	110			
RA 06418	RA	ED	ED	1	2	3	17	19S	25E	545925	3613710*		2603	120	72	48
RA 04236	RA	CH	CH	3	3	1	02	19S	25E	550335	3617145*		2988	360	204	156
RA 04722	RA	ED	ED	3	1	02	19S	25E	550436	3617246*		3131	200	42	158	
RA 02909	RA	ED	ED	1	3	22	19S	25E	548864	3611989*		3353	188	130	58	
RA 08986	RA	ED	ED	1	3	3	22	19S	25E	548825	3611507*		3813	320	220	100
RA 04128	RA	ED	ED		2	02	19S	25E	551443	3617449*		4063	211	100	111	
RA 11654 POD1	RA	ED	ED	3	2	19	19S	25E	544959	3612514*		4107	500			
RA 04426	RA	CH	CH	4	3	18	19S	25E	544412	3613201*		4155	715			
RA 04726	RA	ED	ED	3	2	19	19S	25E	544825	3612390*		4290	390	310	80	
RA 08146	RA	ED	ED	4	4	3	28	18S	25E	547693	3619576*		4351	400		
RA 03304	RA	ED	ED		1	27	19S	25E	549081	3610973*		4391	130	60	70	
RA 03959	RA	ED	ED	2	4	12	19S	24E	543589	3615225*		4444	545	265	280	
RA 07639	RA	ED	ED	3	1	01	19S	25E	552049	3617250*		4491	260	172	88	
RA 03983	RA	CH	CH	4	3	01	19S	25E	552457	3616444*		4584	375	100	275	
RA 04335	RA	CH	CH	1	1	32	18S	25E	545580	3619275*		4724	400	300	100	
RA 06436	RA	ED	ED	3	1	4	12	19S	24E	543083	3615122*		4951		300	
RA 03975	RA	ED	ED	3	1	3	36	18S	25E	551942	3618353*		4998	430	270	160

Average Depth to Water: 182 feet
 Minimum Depth: 42 feet
 Maximum Depth: 310 feet

Record Count: 22

UTM NAD83 Radius Search (in meters):

Easting (X): 548033.48

Northing (Y): 3615237.93

Radius: 5000

*UTM location was derived from PLSS - see Help

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10/22/21 12:25 PM

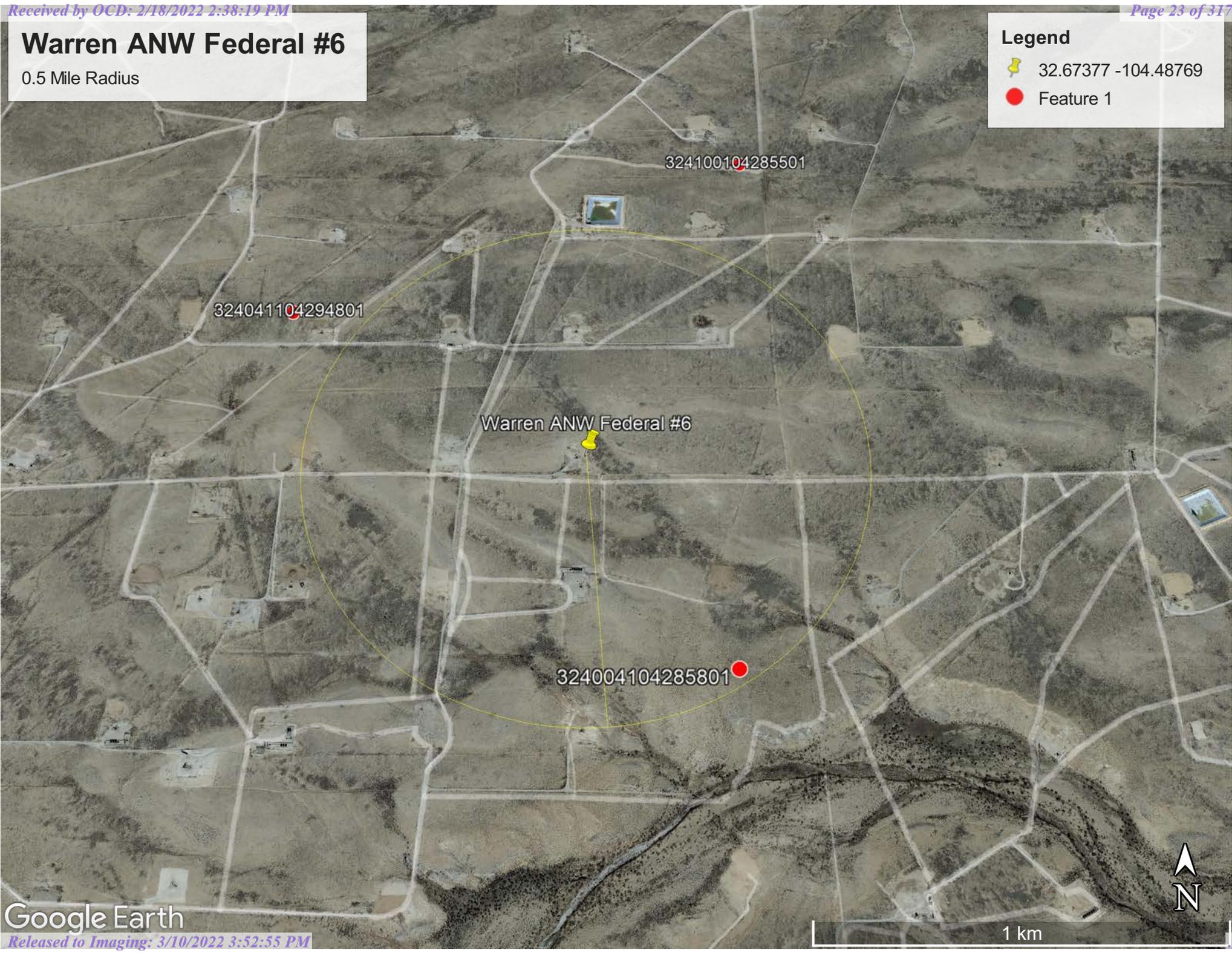
WATER COLUMN/ AVERAGE DEPTH TO WATER

Warren ANW Federal #6

0.5 Mile Radius

Legend

-  32.67377 -104.48769
-  Feature 1



Warren ANW Federal #6

324100104285501

324041104294801

324004104285801



Warren ANW Federal #6

USGS Closest Water Well 2,457 Feet (0.47 Miles)

Legend

-  32.67377 -104.48769
-  Feature 1

324041104294801

Warren ANW Federal #6

324004104285801





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[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 324004104285801

Minimum number of levels = 1

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

USGS 324004104285801 19S.25E.16.22332

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°40'04", Longitude 104°28'58" NAD27

Land-surface elevation 3,487 feet above NAVD88

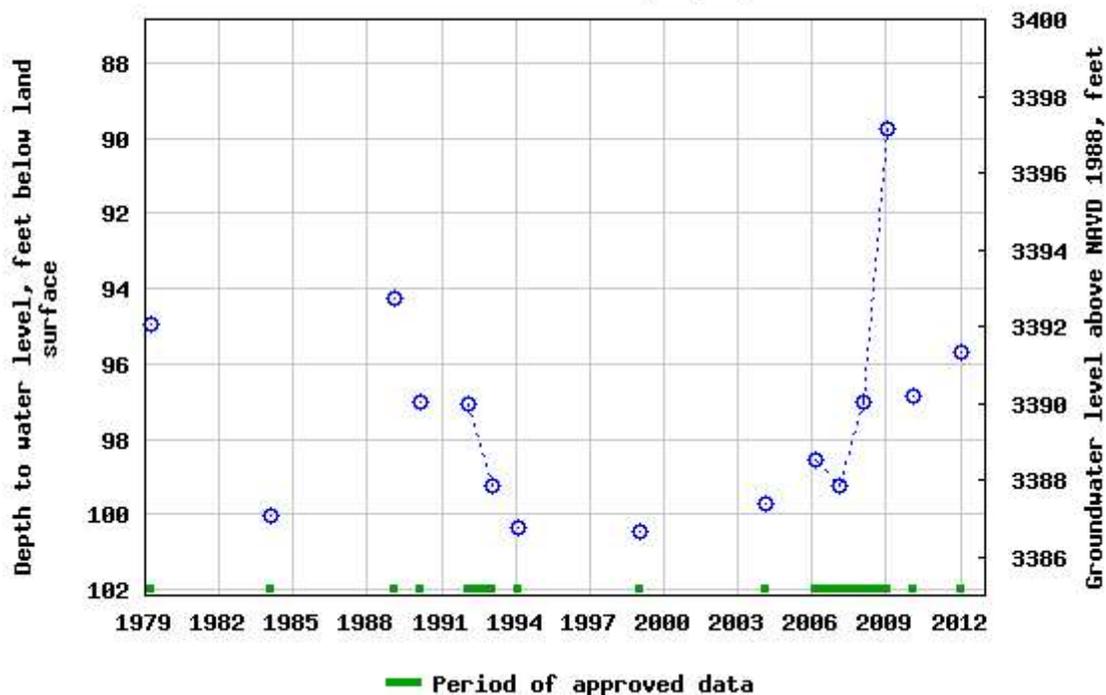
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

USGS 324004104285801 19S.25E.16.22332



Breaks in the plot represent a gap of at least one year between field measurements.
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

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: 2022-02-18 11:46:22 EST

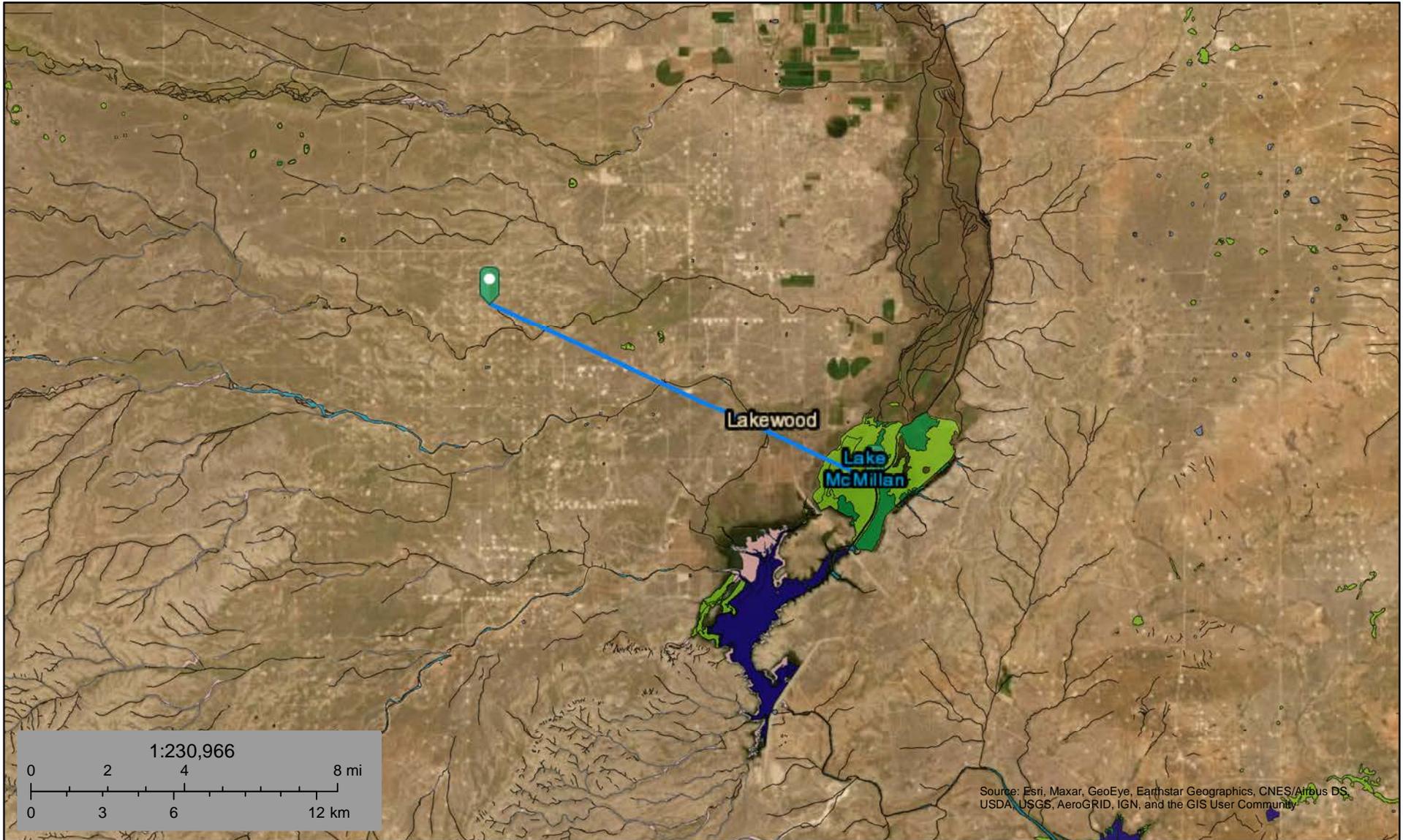
0.62 0.54 nadww02



U.S. Fish and Wildlife Service

National Wetlands Inventory

Warren ANW Federal #6 Nearest Flowing V



October 22, 2021

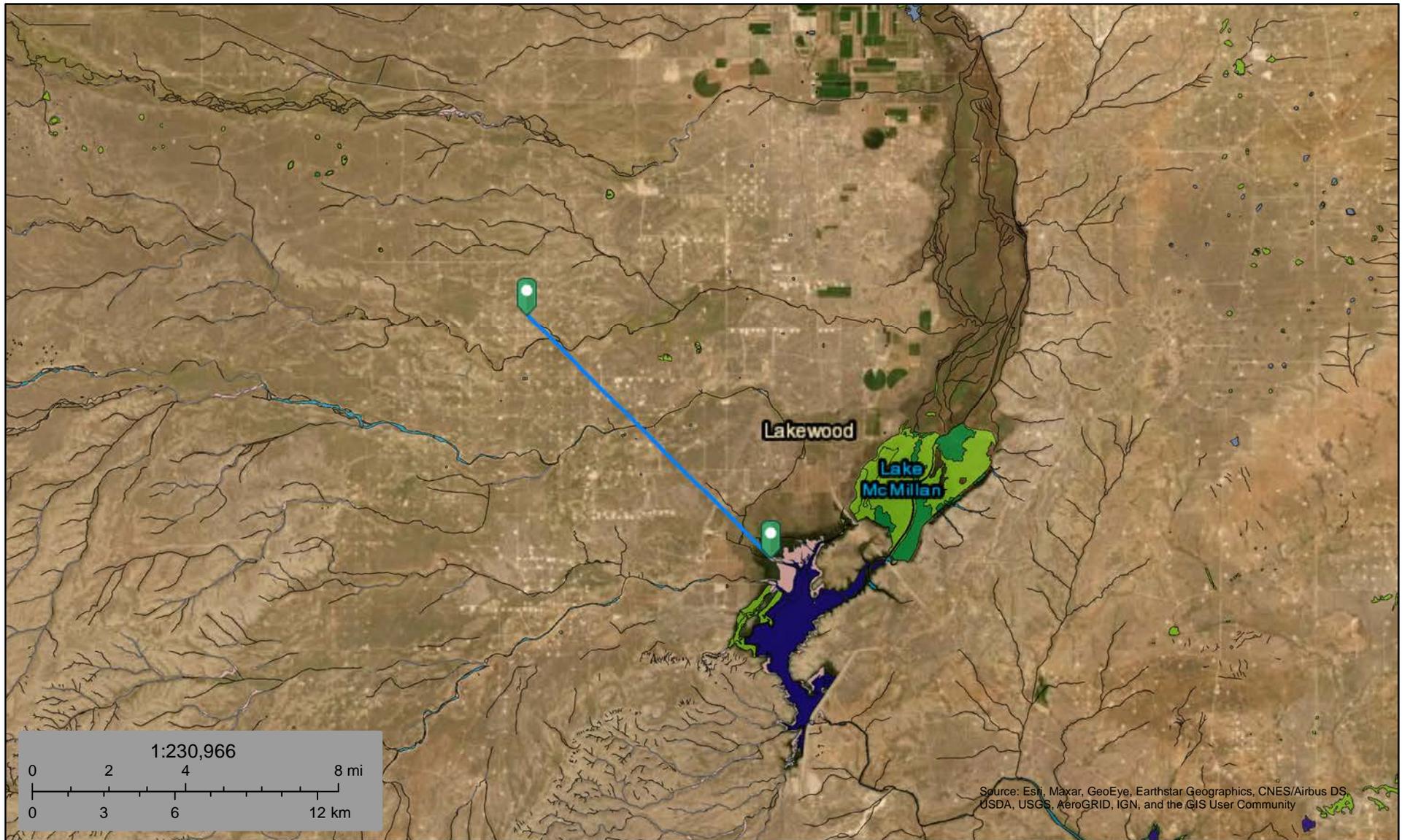
Wetlands

- | | | | | | |
|--|--------------------------------|--|-----------------------------------|--|-------|
| | Estuarine and Marine Deepwater | | Freshwater Emergent Wetland | | Lake |
| | Estuarine and Marine Wetland | | Freshwater Forested/Shrub Wetland | | Other |
| | Freshwater Pond | | Riverine | | |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Nearest Lakebed Brantley Lake 39,927 Feet



October 22, 2021

Wetlands

- | | | |
|--------------------------------|-----------------------------------|----------|
| Estuarine and Marine Deepwater | Freshwater Emergent Wetland | Lake |
| Estuarine and Marine Wetland | Freshwater Forested/Shrub Wetland | Other |
| | Freshwater Pond | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Warren ANW Federal #6

Nearest Residence 11,481 Feet (2.17 Miles)

Legend

 Warren ANW Federal #6

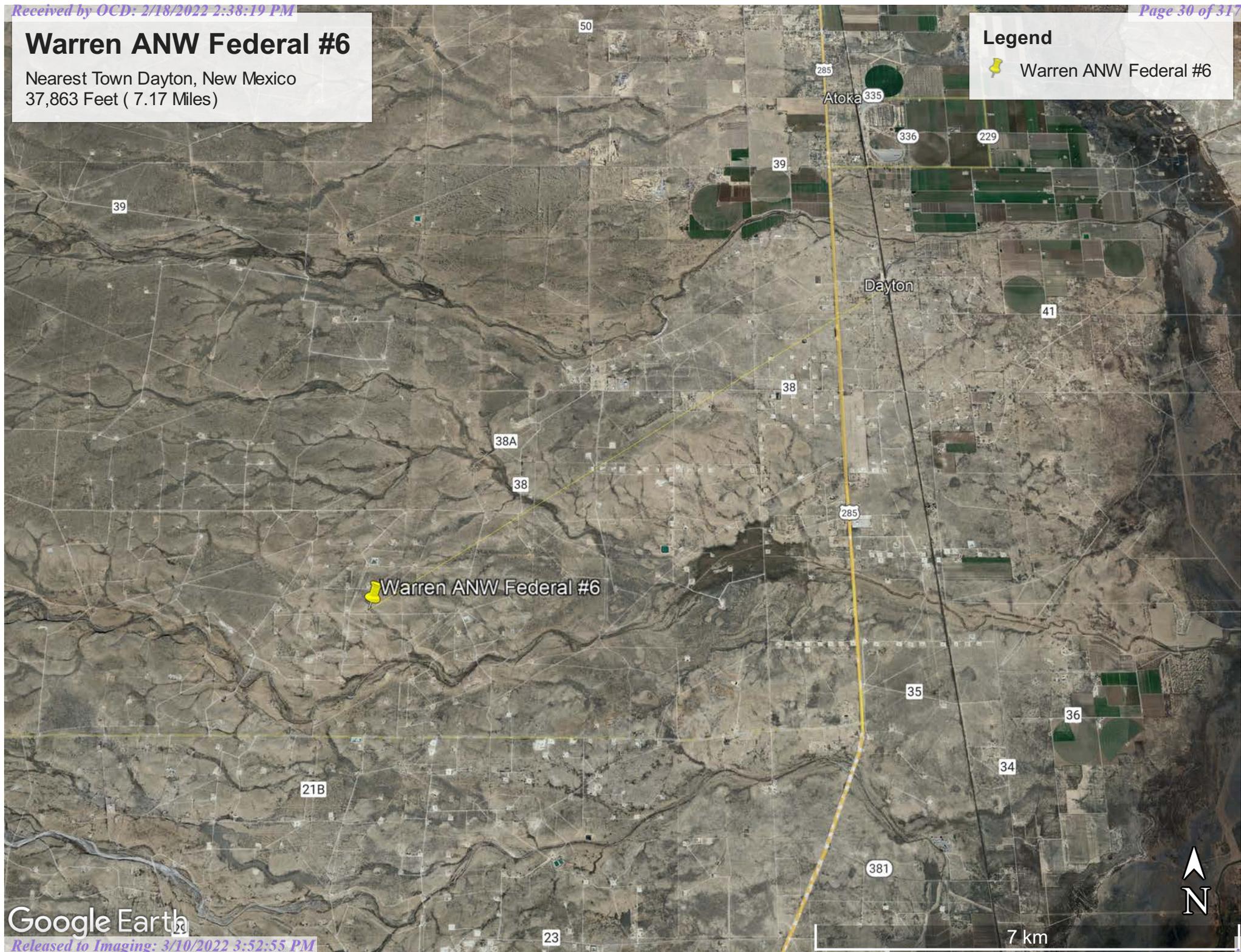


Warren ANW Federal #6

Nearest Town Dayton, New Mexico
37,863 Feet (7.17 Miles)

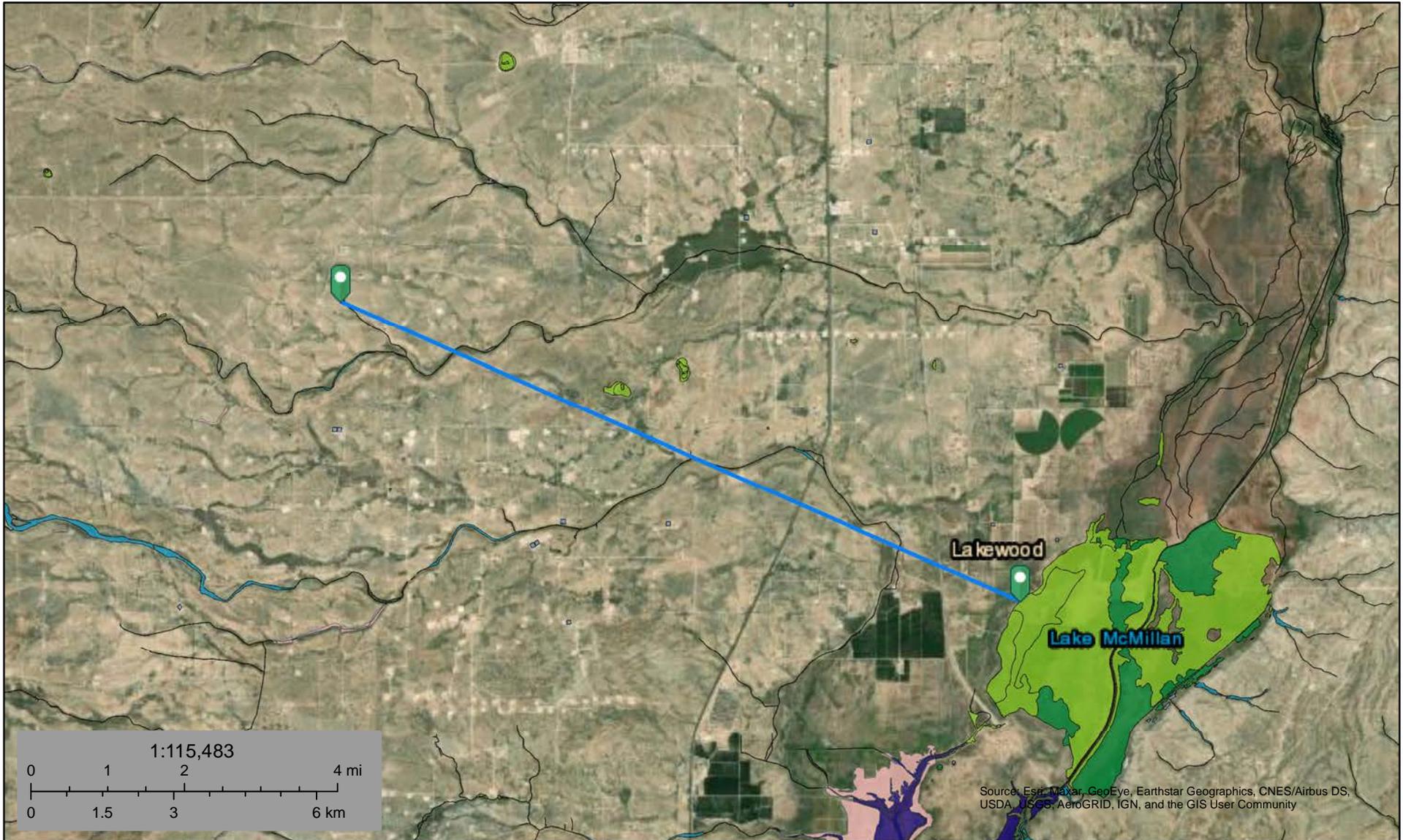
Legend

 Warren ANW Federal #6





Nearest Wetland 43,107 Feet (8.16 Miles)



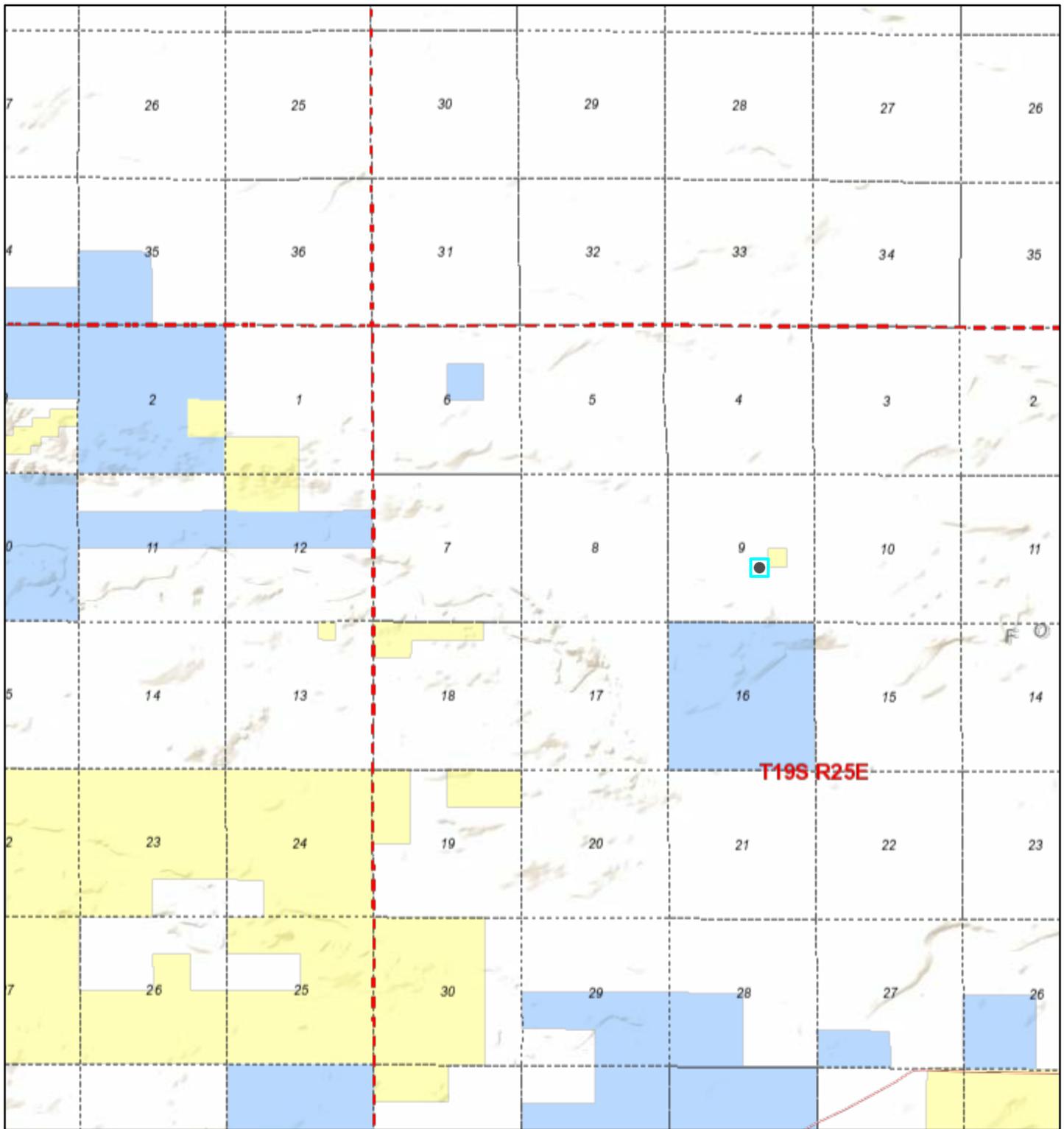
October 22, 2021

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Lake
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland
- Other
- Freshwater Pond
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

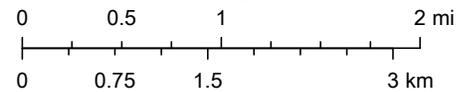
Active Mines in New Mexico



10/22/2021, 3:04:14 PM

1:72,224

- - - Township / Range
- Sections
- Land Ownership**
- Bureau of Land Management
- State Land
- Department of Defense
- Tribal
- Department of Energy
- State Parks
- National Park Service
- Private Land
- Bureau of Reclamation
- State Game and Fish
- Department of Agriculture



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

National Flood Hazard Layer FIRMette



104°29'34"W 32°40'41"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/22/2021 at 5:06 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



October 22, 2021

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

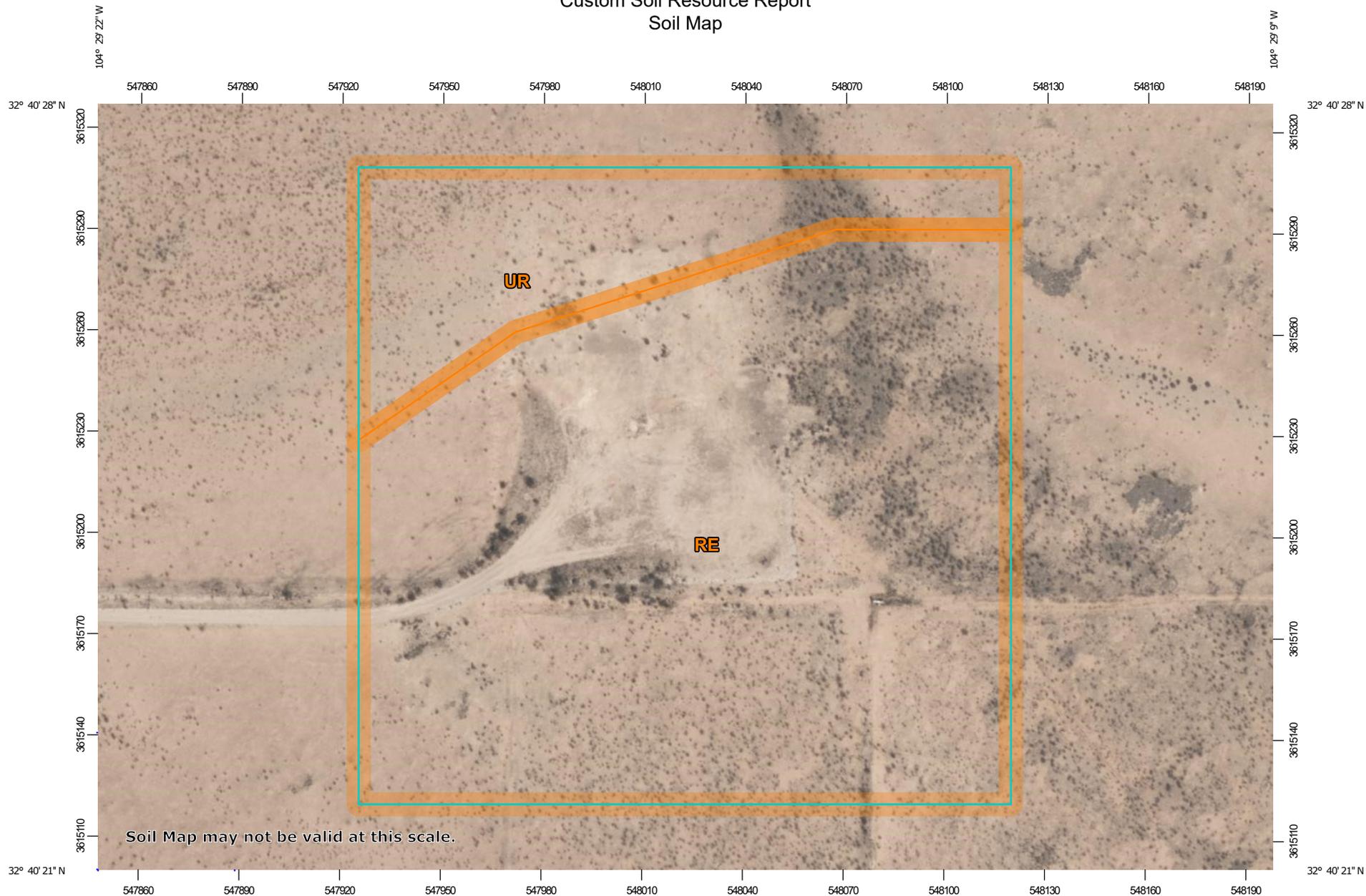
Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

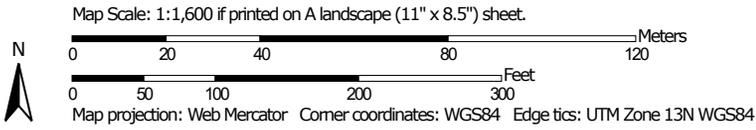
Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
 Survey Area Data: Version 17, Sep 12, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Custom Soil Resource Report

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RE	Reagan-Upton association, 0 to 9 percent slopes	7.3	80.4%
UR	Upton-Reagan complex, 0 to 9 percent slopes	1.8	19.6%
Totals for Area of Interest		9.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

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onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

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Eddy Area, New Mexico**RE—Reagan-Upton association, 0 to 9 percent slopes****Map Unit Setting**

National map unit symbol: 1w5d
Elevation: 1,100 to 5,400 feet
Mean annual precipitation: 6 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 180 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent
Upton and similar soils: 25 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan**Setting**

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R070DY153NM - Loamy
Hydric soil rating: No

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Description of Upton**Setting**

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
(0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070DY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components**Atoka**

Percent of map unit: 3 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 2 percent
Ecological site: R042XC017NM - Bottomland
Hydric soil rating: No

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UR—Upton-Reagan complex, 0 to 9 percent slopes**Map Unit Setting**

National map unit symbol: 1w65
Elevation: 1,100 to 5,400 feet
Mean annual precipitation: 6 to 15 inches
Mean annual air temperature: 60 to 70 degrees F
Frost-free period: 180 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 55 percent
Reagan and similar soils: 35 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton**Setting**

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high
 (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s

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Hydrologic Soil Group: D
Ecological site: R042XC025NM - Shallow
Hydric soil rating: No

Description of Reagan**Setting**

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Minor Components**Reagan**

Percent of map unit: 5 percent
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Pima

Percent of map unit: 5 percent
Ecological site: R042XC017NM - Bottomland
Hydric soil rating: No

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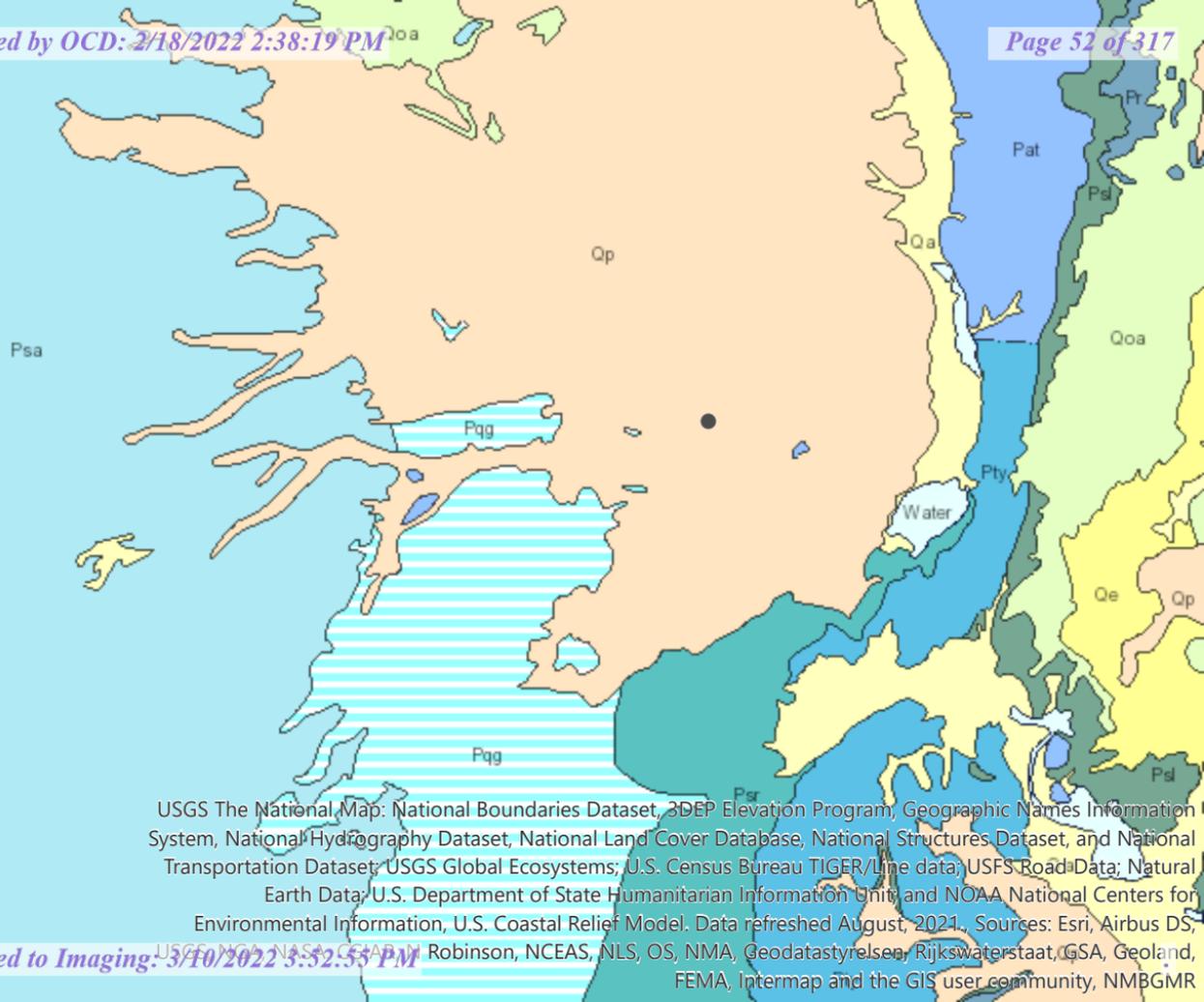
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USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global 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 August, 2021. Sources: Esri, Airbus DS, USGS, NOAA, NASA, CEAP, NCEAS, NLS, OS, NMA, Geodastylelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, NMBGMR

Closure Criteria Worksheet			
Site Name: Warren ANW Federal #6			
Spill Coordinates:		X: 32.67377	Y: -104.48769
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	95	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	49,315	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	39,927	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	11,481	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	11,481	feet
	ii) Within 1000 feet of any fresh water well or spring		feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	43,107	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Medium	
10	Within a 100-year Floodplain	>500	year
11	Soil Type	Reagan-Upton, Upton-Reagan	
12	Ecological Classification	Loamy	
13	Geology	QP	
NMAC 19.15.29.12 E (Table 1) Closure Criteria		51-100'	<50' 51-100' >100'

ATTACHMENT 4

SOIL BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA													
EOG RESOURCES, INC.													
WARREN ANW FED #6													
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
September 29, 2021 Site Assessment													
TH-1/0'	9/29/2021	0'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<10	<50	<10	<50	<59
TH-1/4'	9/29/2021	4'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.7	<48	<9.7	<48	420
TH-2/2'	9/29/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	2,100
TH-2/6'	9/29/2021	6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.6	<48	<9.6	<48	250
TH-3/0'	9/29/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<50	<9.9	<50	<60
TH-3/4'	9/29/2021	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	1,100
TH-3/6'	9/29/2021	6'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.4	<47	<9.4	<47	280
TH-4/0'	9/29/2021	0'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.5	<47	<9.5	<47	<60
TH-4/3'	9/29/2021	3'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.5	<47	<9.5	<47	930
TH-4/6'	9/29/2021	6'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<9.7	<49	<9.7	<49	190
TH-5/1'	9/29/2021	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<9.4	<47	1,700
TH-5/4'	9/29/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<10	<51	<10	<51	890
TH-5/6'	9/29/2021	6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.1	<45	<9.1	<45	500
TH-6/4'	9/29/2021	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.6	<48	<9.6	<48	940
TH-6/6'	9/29/2021	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	120
TH-7/0'	9/29/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<9.1	<46	<60
TH-7/4'	9/29/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.7	<49	<9.7	<49	<60
TH-8/2'	9/29/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<10	<50	<10	<50	1,000
TH-8/4'	9/29/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.3	<47	<9.3	<47	800
TH-9/1'	9/29/2021	1'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.1	<46	<9.1	<46	3,500
TH-9/6'	9/29/2021	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.3	<47	<9.3	<47	290
TH-10/2'	9/29/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.5	<47	<9.5	<47	1,100
TH-10/4'	9/29/2021	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<8.3	<41	<8.3	<41	560
TH-11/0'	9/29/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.9	<49	<9.9	<49	<60
TH-11/4'	9/29/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<48	<9.7	<48	120
TH-12/4'	9/29/2021	4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.9	<50	<9.9	<50	750
TH-12/6'	9/29/2021	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<48	<9.7	<48	350
TH-13/3'	9/29/2021	3'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.8	<49	<9.8	<49	860
TH-13/6'	9/29/2021	6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	420
TH-14/1'	9/29/2021	1'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.9	<49	<9.9	<49	2,100
TH-14/4'	9/29/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<10	<50	<10	<50	520
TH-15/1'	9/29/2021	1'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.9	<50	<9.9	<50	130
TH-15/4'	9/29/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.8	<49	<9.8	<49	310
TH-16/1'	9/29/2021	1'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.8	<49	<9.8	<49	<60
TH-16/4'	9/29/2021	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.9	<50	<9.9	<50	490
TH-17/1'	9/29/2021	1'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.9	<50	<9.9	<50	<60
TH-17/4'	9/29/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.5	<47	<9.5	<47	300
TH-18/1'	9/29/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<48	<9.7	<48	<59
TH-18/4'	9/29/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.8	<49	<9.8	<49	160
TH-19/1'	9/29/2021	1'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.7	<49	<9.7	<49	<3.0
TH-19/4'	9/29/2021	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.4	<47	<9.4	<47	<59
TH-20/1'	9/29/2021	1'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.8	<49	<9.8	<49	<60
TH-20/4'	9/29/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	<60
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤ 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.													

Client Name: EOG Resources, Inc.
 Site Name: Warren ANW Federal #6
 NM OCD Tracking #: nAPP2129353745
 Project #: 22E-00123-011

Table 2. Initial Characterization Field Screening - Depth to Groundwater <50 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BES21-01	4	11/3/2021	0	-	1,291	-	-	-	-	-	-	-	-
BES21-01	6	11/3/2021	0	15	399	-	-	-	-	-	-	-	-
BES21-02	2	11/3/2021	0	-	916	-	-	-	-	-	-	-	-
BES21-02	4	11/3/2021	0	-	942	-	-	-	-	-	-	-	-
BES21-02	6	11/3/2021	0	20	173	-	-	-	-	-	-	-	-
BES21-03	2	11/3/2021	0	-	1,206	-	-	-	-	-	-	-	-
BES21-03	4	11/3/2021	0	-	1,157	-	-	-	-	-	-	-	-
BES21-03	6	11/3/2021	0	28	158	-	-	-	-	-	-	-	-
BES21-04	2	11/3/2021	0	-	1,433	-	-	-	-	-	-	-	-
BES21-04	4	11/3/2021	0	-	2,088	-	-	-	-	-	-	-	-
BES21-04	6	11/4/2021	0	20	519	-	-	-	-	-	-	-	-
BES21-05	4	11/4/2021	0	-	848	-	-	-	-	-	-	-	-
BES21-05	6	11/4/2021	0	5	268	-	-	-	-	-	-	-	-
BES21-06	4	11/5/2021	0	10	594	-	-	-	-	-	-	-	-
BES21-07	4	11/5/2021	0	30	379	-	-	-	-	-	-	-	-
BES21-08	4	11/5/2021	0	25	513	-	-	-	-	-	-	-	-
BES21-09	4	11/9/2021	0	20	485	-	-	-	-	-	-	-	-
BES21-10	2	11/9/2021	0	-	1,257	-	-	-	-	-	-	-	-
BES21-10	4	11/9/2021	0	17	242	-	-	-	-	-	-	-	-
WES21-01	2	11/3/2021	0	-	275	-	-	-	-	-	-	-	-
WES21-02	2	11/3/2021	0	-	417	-	-	-	-	-	-	-	-
WES21-03	2	11/3/2021	0	-	431	-	-	-	-	-	-	-	-
WES21-04	1	11/3/2021	0	-	229	-	-	-	-	-	-	-	-
WES21-05	1	11/3/2021	0	-	483	-	-	-	-	-	-	-	-
WES21-06	1	11/3/2021	0	-	903	-	-	-	-	-	-	-	-
WES21-07	1	11/3/2021	0	-	1,770	-	-	-	-	-	-	-	-
WES21-08	2	11/3/2021	0	-	421	-	-	-	-	-	-	-	-
WES21-09	2	11/3/2021	0	-	2,045	-	-	-	-	-	-	-	-
WES21-10	3	11/4/2021	0	-	2,182	-	-	-	-	-	-	-	-
WES21-11	3	11/4/2021	0	-	1,428	-	-	-	-	-	-	-	-
WES21-12	3	11/4/2021	0	-	1,132	-	-	-	-	-	-	-	-
WES21-13	3	11/4/2021	0	-	943	-	-	-	-	-	-	-	-
WES21-14	3	11/4/2021	0	-	471	-	-	-	-	-	-	-	-
WES21-15	3	11/4/2021	0	-	956	-	-	-	-	-	-	-	-
WES21-16	3	11/4/2021	0	-	773	-	-	-	-	-	-	-	-
WES21-17	3	11/4/2021	0	-	1,065	-	-	-	-	-	-	-	-
WES21-18	3	11/4/2021	0	-	370	-	-	-	-	-	-	-	-
WES21-19	3	11/4/2021	0	-	456	-	-	-	-	-	-	-	-
WES21-20	2	11/5/2021	0	0	441	-	-	-	-	-	-	-	-
WES21-21	2	11/5/2021	0	-	811	-	-	-	-	-	-	-	-
WES21-22	2	11/5/2021	0	-	795	-	-	-	-	-	-	-	-
WES21-23	2	11/5/2021	0	-	858	-	-	-	-	-	-	-	-
WES21-24	2	11/5/2021	0	-	386	-	-	-	-	-	-	-	-
WES21-25	2	11/5/2021	0	-	522	-	-	-	-	-	-	-	-
WES21-26	2	11/5/2021	0	-	469	-	-	-	-	-	-	-	-
WES21-27	2	11/5/2021	0	-	368	-	-	-	-	-	-	-	-
WES21-28	2	11/5/2021	0	-	1,180	-	-	-	-	-	-	-	-
WES21-29	3	11/5/2021	0	-	1,128	-	-	-	-	-	-	-	-
WES21-30	2	11/5/2021	0	-	1,075	-	-	-	-	-	-	-	-
WES21-31	2	11/5/2021	0	-	1,112	-	-	-	-	-	-	-	-
WES21-32	2	11/5/2021	0	-	1,075	-	-	-	-	-	-	-	-
WES21-33	2	11/5/2021	0	-	1,166	-	-	-	-	-	-	-	-



WES21-31	2	11/5/2021	0	-	1,112	-	-	-	-	-	-	-	-
WES21-32	2	11/5/2021	0	-	1,075	-	-	-	-	-	-	-	-
WES21-33	2	11/5/2021	0	-	1,166								

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NM OCD Closure Criteria

Client Name: EOG Resources, Inc.
 Site Name: Warren ANW Federal #6
 NM OCD Tracking #: nAPP2129353745
 Project #: 22E-00123-011
 Lab Reports: 2111A01, 2111A66, 2111B17, 2111B99, 2201647, 2202639

Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons										Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile					Extractable					Chloride Concentration
						Benzene	Toluene	Ethylbenzene	Xylenes (Total)	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BES21-01	6	11/17/2021	0	38	572	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350
BES21-02	4	11/17/2021	0	3	464	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	480
BES21-03	4	11/17/2021	0	28	484	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	480
BES21-04	4	11/17/2021	0	47	440	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110
BES21-05	4	11/17/2021	0	54	467	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	87
BES21-06	4	11/17/2021	0	0	373	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230
BES21-07	4	11/17/2021	0	33	427	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150
BES21-08	4	11/17/2021	0	31	461	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	980
BES21-08	6	11/23/2021	0	-	421	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES21-09	4	11/17/2021	0	29	438	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1300
BES21-09	6	11/23/2021	0	-	415	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES21-10	4	11/17/2021	0	30	405	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	210
BES21-11	4	11/17/2021	0	9	398	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	67
BES21-12	6	11/17/2021	0	0	253	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
BES21-13	6	11/17/2021	0	34	381	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	140
BES21-14	6	11/17/2021	0	0	461	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	260
BES21-15	6	11/17/2021	0	21	457	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	510
BES21-16	4	11/17/2021	0	8	414	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	600
BES21-16	6	11/23/2021	0	-	479	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150
BES21-17	4	11/17/2021	0	26	411	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	690
BES21-17	6	11/23/2021	0	-	460	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150
BES21-18	4	11/17/2021	0	31	428	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	580
BES21-19	4	11/17/2021	0	12	308	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	230
BES21-20	4	11/17/2021	0	5	297	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	270
BES21-21	4	11/18/2021	0	21	493	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110
BES21-22	4	11/18/2021	0	30	591	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES21-23	6	11/18/2021	0	32	513	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	350



BES21-24	6	11/18/2021	0	28	513	ND	250									
BES21-25	4	11/18/2021	0	40	596	ND	170									
BES21-26	4	11/18/2021	0	52	542	ND	510									
BES21-27	4	11/18/2021	0	22	549	ND	140									
BES21-28	6	11/18/2021	0	18	571	ND										
BES21-29	6	11/18/2021	0	5	596	ND										
BES21-30	4	11/22/2021	0	18	508	ND										
BES21-31	4	11/22/2021	0	34	402	ND										
BES21-32	6	11/22/2021	0	39	372	ND										
BES21-33	4	11/23/2021	0	-	297	ND										
BES21-34	4	11/23/2021	0	-	383	ND										
BES21-35	4	11/23/2021	0	-	389	ND										
BES21-36	4	11/23/2021	0	-	515	ND										
BES21-37	6	11/23/2021	0	-	212	ND										
BES21-38	6	11/23/2021	0	-	304	ND										
BES21-39	6	11/23/2021	0	-	440	ND										
BES21-40	6	11/23/2021	0	-	508	ND										
BES22-41	4	2/11/2022	0	61	508	ND	220									
BES22-42	4	2/11/2022	0	29	466	ND	310									
BES22-43	4	2/11/2022	0	74	557	ND	320									
BES22-44	4	2/11/2022	0	45	562	ND	330									
WES21-01	3	11/18/2021	0	21	518	ND	210									
WES21-02	2	11/18/2021	0	5	241	ND	230									
WES21-03	2	11/18/2021	0	9	432	ND	170									
WES21-04	2	11/18/2021	0	10	542	ND										
WES21-05	2	11/18/2021	0	0	535	ND										
WES21-06	3	11/18/2021	0	2	106	ND	490									
WES21-07	3	11/18/2021	0	0	148	ND	120									
WES21-08	3	11/18/2021	0	5	248	ND										
WES21-09	3	11/18/2021	0	9	330	ND	310									
WES21-10	3	11/18/2021	0	20	178	ND										
WES21-11	3	11/18/2021	0	18	125	ND										
WES21-12	3	11/19/2021	0	29	262	ND										
WES21-13	3	11/19/2021	0	42	575	ND	69									
WES21-14	3	11/19/2021	0	18	375	ND	390									
WES21-15	3	11/19/2021	0	5	588	ND	84									
WES21-16	3	11/19/2021	0	6	578	ND	100									
WES21-17	3	11/19/2021	0	10	567	ND	150									
WES21-18	3	11/19/2021	0	11	578	ND	180									
WES21-19	3	11/19/2021	0	22	554	ND	200									
WES21-20	3	11/19/2021	0	46	548	ND										
WES21-21	3	11/19/2021	0	19	551	ND										
WES21-22	2	11/19/2021	0	4	587	ND										
WES21-23	2	11/19/2021	0	25	515	ND										
WES21-24	2	11/19/2021	0	21	542	ND										



WES21-25	2	11/19/2021	0	30	588	ND										
WES21-26	2	11/19/2021	0	41	533	ND										
WES21-27	2	11/22/2021	0	54	471	ND										
WES21-28	2	11/22/2021	0	23	366	ND										
WES21-29	2	11/22/2021	0	41	424	ND										
WES21-30	2	11/22/2021	0	39	391	ND										
WES21-31	2	11/22/2021	0	13	405	ND										
WES21-32	2	11/22/2021	0	6	448	ND										
WES21-33	2	11/22/2021	0	12	368	ND										
WES21-34	2	11/22/2021	0	23	479	ND										
WES22-35	3	1/14/2022	0	20	230	ND										
WES22-36	3	1/14/2022	0	14	253	ND										
North excavation sidewall pit samples that were collected for documentation purposes																
WES22-37	3	2/11/2022	-	-	-	ND	ND	ND	ND	ND	ND	47	ND	47	47	6,100
WES22-38	3	2/11/2022	-	-	-	ND	ND	ND	ND	ND	ND	61	ND	61	61	6,200
WES22-39	3	2/11/2022	-	-	-	ND	ND	ND	ND	ND	ND	29	ND	29	29	6,200
WES22-40	3	2/11/2022	-	-	-	ND	ND	ND	ND	ND	ND	64	ND	64	64	5,800

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NM OCD Closure Criteria (excavated)

ATTACHMENT 5

Monica Peppin

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Wednesday, November 24, 2021 10:23 AM
To: Michael Moffitt; Monica Peppin
Cc: Dennis Williams
Subject: FW: Warren ANW Federal #6 (nAPP2129353745) Sampling Notification

From: Yolanda Ybarra <Yolanda_Ybarra@eogresources.com>
Sent: Wednesday, November 24, 2021 8:49 AM
To: Rob Hamlet <rob_hamlet@eogresources.com>; blm_nm_cfo_spill@blm.gov; ahowell@pvt.net
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>
Subject: FW: Warren ANW Federal #6 (nAPP2129353745) Sampling Notification

Good morning,

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

Warren ANW Federal #6
J-9-19S-25E
Eddy County, NM
nAPP2129353745

Sampling will begin at 8:00 a.m. on December 1, 2021, and be continuous as the excavation progresses.

Thank you,



Yolanda A. Ybarra

Sr. Regulatory Assistant
Artesia Division
104 S. 4th Street
Artesia, NM 88210
(575) 748-4329 Office
(575) 703-1882 Cell

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Tuesday, November 23, 2021 4:29 PM
To: Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov; ahowell@pvt.net
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>;

Chase Settle <Chase_Settle@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>

Subject: Warren ANW Federal #6 (nAPP2129353745) Sampling Notification

Good Afternoon,

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

Warren ANW Federal #6

J-9-19S-25E

Eddy County, NM

nAPP2129353745

Sampling will begin at 8:00 a.m. on December 1, 2021.

Thank you,

Miriam Morales

Chance Dixon

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: February 8, 2022 7:30 AM
To: Michael Moffitt
Subject: FW: Warren ANW Federal 6 (nAPP2129353745) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Tuesday, February 8, 2022 7:01 AM
To: Robert.Hamlet@state.nm.us; camorgan@blm.gov; Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>
Cc: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>
Subject: Warren ANW Federal 6 (nAPP2129353745) Sampling Notification

Good Morning,

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

Warren ANW Federal 6
nAPP2129353745

Sampling will begin at 8:00 a.m. on Friday, February 11, 2022, and be continuous through Tuesday, February 15, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



ATTACHMENT 6



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/1/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/2/2021 12:09 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/1/2021 8:30 AM</u>
Departed Site	<u>11/1/2021 5:00 PM</u>

Field Notes

- 9:07** Arrived on site to begin remediation/reclamation process
- 9:07** Standard safety will spend most of the day putting a fence around the pad, mud pit, and road.
- 10:10** Standard safety is on site and starting the fence at the end of the road and working their way up to the pad
- 16:36** Fence posts put up along south side of road and around to east side of pad
- 16:36** Standard currently running fence posts on north side and around north side of pad and mud pit to tie into where they stopped on east side

Next Steps & Recommendations

1



Daily Site Visit Report

Site Photos

Viewing Direction: North



Descriptive Photo - 1
Viewing Direction: North
Date: Reclamation area
Created: 11/2/2021 10:11:28 AM
Lat:32.873861, Long:-104.487818

Reclamation area

Viewing Direction: Southwest



Descriptive Photo - 14
Viewing Direction: Southwest
Date: End of electric line on south edge of pad
Created: 11/2/2021 10:18:28 AM
Lat:32.873861, Long:-104.487818

End of electric line on south edge of pad

Viewing Direction: Northwest



Descriptive Photo - 17
Viewing Direction: Northwest
Date: Standard safety gate being with installing gate at the end of the road
Created: 11/2/2021 10:18:30 AM
Lat:32.873861, Long:-104.487818

Standard safety beginning with installing gate at the end of the road

Viewing Direction: South

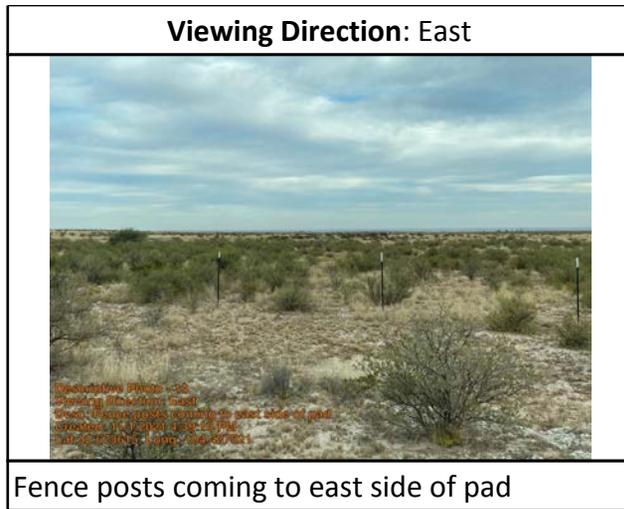


Descriptive Photo - 12
Viewing Direction: South
Date: Fence posts on south side of road
Created: 11/2/2021 4:27:44 PM
Lat:32.873861, Long:-104.487818

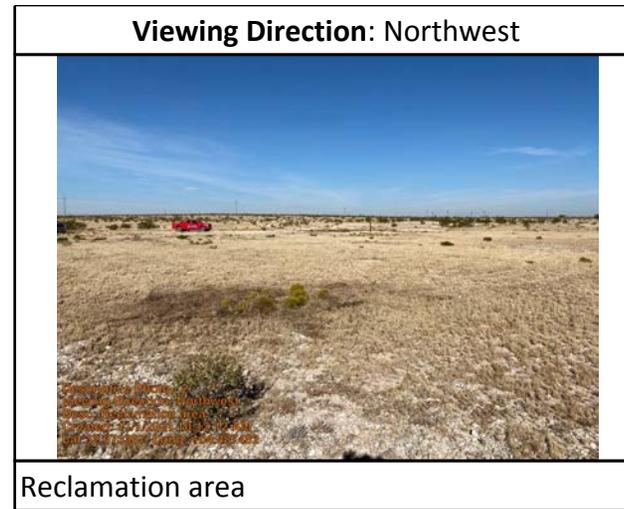
Fence posts on south side of road



Daily Site Visit Report



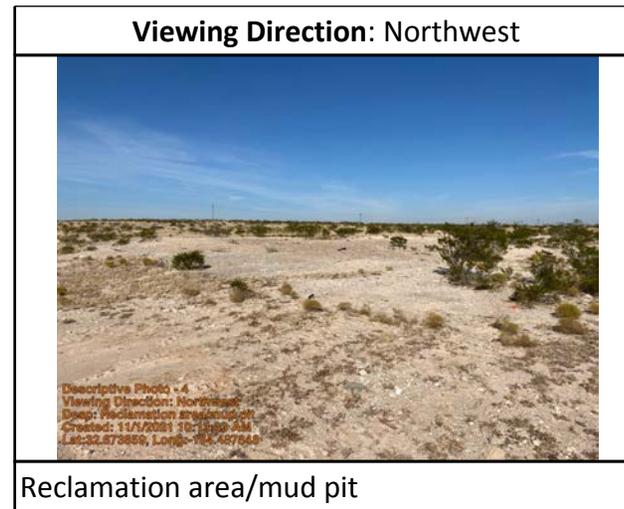
Fence posts coming to east side of pad



Reclamation area



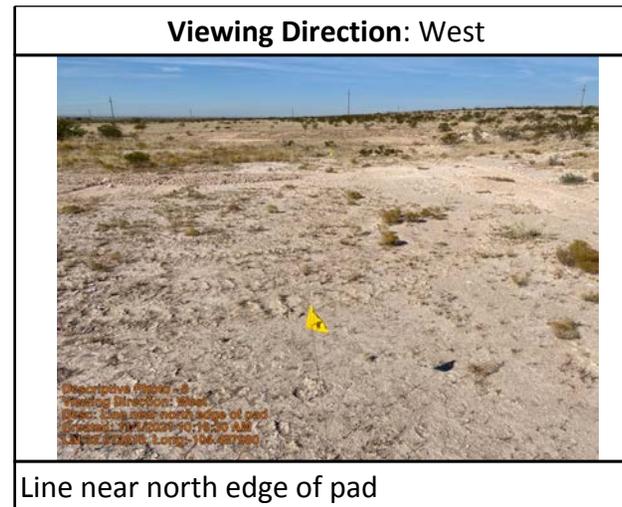
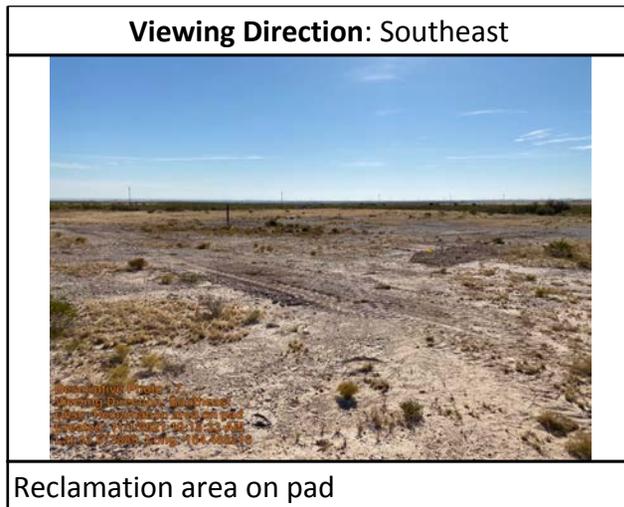
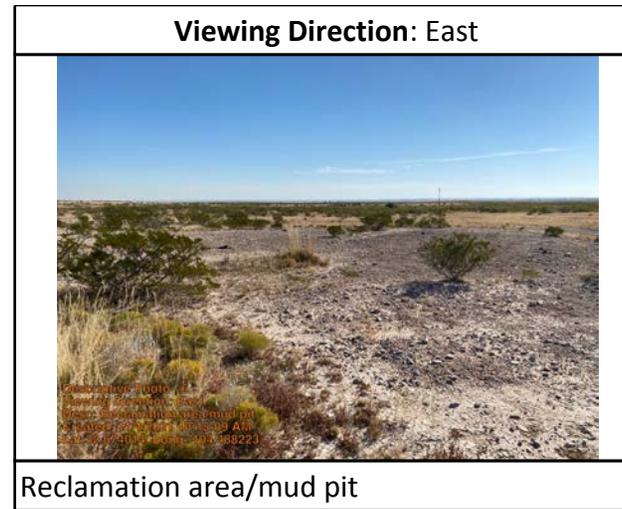
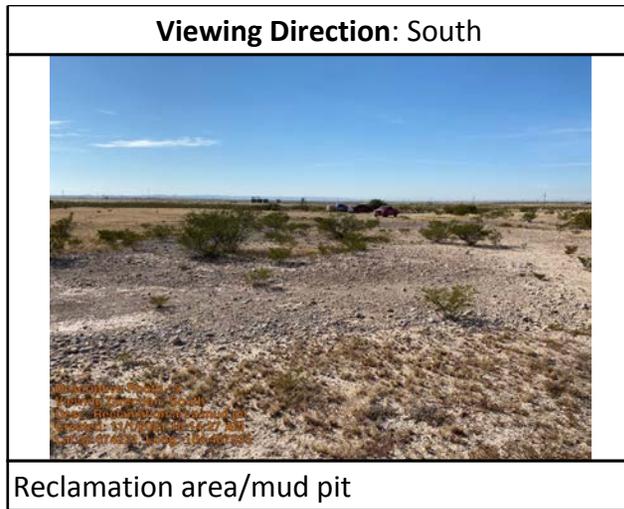
Reclamation area



Reclamation area/mud pit

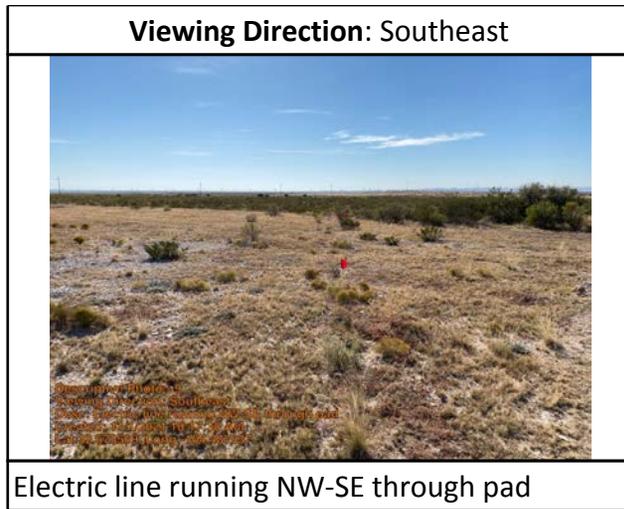


Daily Site Visit Report





Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature in black ink, appearing to be 'CD', written over a horizontal line.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/2/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/3/2021 1:16 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/2/2021 8:10 AM</u>
Departed Site	<u>11/2/2021 5:00 PM</u>

Field Notes

- 8:39** Arrived on site to continue overseeing standard safety building fence around location and road leading to it
- 8:39** Front end loader is expected to arrive on site late in the morning and trackhoe is expected this afternoon.
- 8:40** Could possibly start excavation and field screening late in the afternoon.
- 10:56** This morning the access gate to the site was found to be open. I closed it on the way to the site. The crew from Standard Safety said that they found it to be open when they got there as well and they left it how they found it. I had a meeting with them and made sure they understand that it is to be locked at all times.
- 15:47** Wire on the fence around the location, mud pit, and road is almost complete

Next Steps & Recommendations

- 1** Begin excavation tomorrow



Daily Site Visit Report

Site Photos

Viewing Direction: North



Description Photo 1
Viewing Direction: North
Topic: Fence line on northeast corner of pad
Created: 11/2/2021 3:49:57 PM
Lat:32.674266, Long: -104.487878

Fence line on northeast corner of pad

Viewing Direction: Northeast



Description Photo 2
Viewing Direction: Northeast
Topic: Fence line north of mud pit
Created: 11/2/2021 3:50:11 PM
Lat:32.674266, Long: -104.487878

Fence line north of mud pit

Viewing Direction: Southwest



Description Photo 3
Viewing Direction: Southwest
Topic: Fence line near northwest corner of pad
Created: 11/2/2021 3:50:04 PM
Lat:32.673966, Long: -104.488378

Fence line near northwest corner of pad

Viewing Direction: Southeast

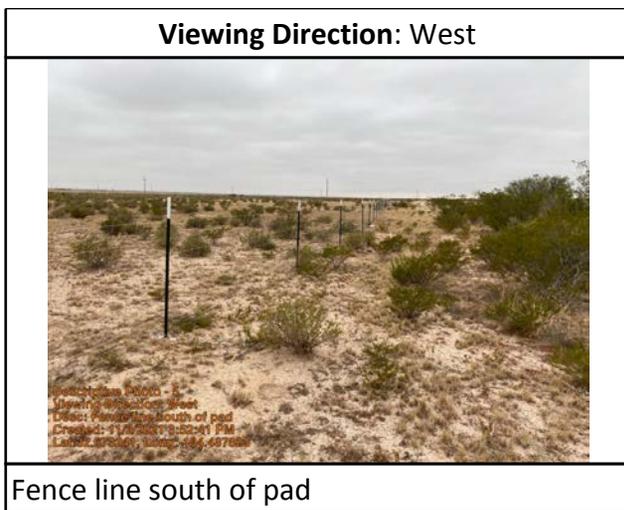


Description Photo 4
Viewing Direction: Southeast
Topic: Fence line near southeast corner of pad
Created: 11/2/2021 3:51:52 PM
Lat:32.673966, Long: -104.487508

Fence line near southeast corner of pad



Daily Site Visit Report



Fence line south of pad



Fence line going down south side of road



Trackhoe and loader on site for dig tomorrow



Gate closed and locked heading out

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature in black ink, appearing to be 'CD' with a flourish.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/3/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/3/2021 9:45 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/3/2021 7:40 AM</u>
Departed Site	<u>11/3/2021 4:00 PM</u>

Field Notes

- 7:33** Arrived at access gate same time as Standard. Gate was open when we got here. Closed and locked it behind me.
- 12:31** Began excavation down to 4ft on northeast corner of spill. Ran WES21-01-WES21-03 and BES21-01. BES21-01 is dirty at 4ft. Taking this section down to 6ft. BES21-01 clean at 6ft
- 12:32** Collected and ran BES21-02-BES21-03. And WES21-04-WES21-07. WES21-04-WES21-05 are clean. Stepping out WES21-06-WES21-07 and digging deeper on bases
- 13:32** Stepped out WES21-06 with WES21-08. All clean.
- 13:32** Stepped WES21-07 with WES21-09 at an angle toward well head. Still dirty.
- 14:39** BES21-04 is being brought down to 6ft

Next Steps & Recommendations

- 1 Delineate wall for WES21-09 and move to west side of pad.



Daily Site Visit Report

Site Photos

Viewing Direction: East



Descriptive Photo - 1
Viewing Direction: East
Desc: Gate closed and locked at arrival.
Created: 11/3/2021 7:34:49 AM
Lat:31.698897, Long:-104.491724

Gate closed and locked at arrival.

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Desc: Top 2ft near BES21-01 is topsoil. Below that is caliche.
Created: 11/3/2021 8:41:02 AM
Lat:31.698897, Long:-104.491724

Top 2ft near BES21-01 is topsoil. Below that is caliche.

Viewing Direction: Northwest



Descriptive Photo - 3
Viewing Direction: Northwest
Desc: Sample area for BES21-02-BES21-03 and WES21-04-WES21-07
Created: 11/3/2021 11:03:29 PM
Lat:31.698897, Long:-104.491724

Sample area for BES21-02-BES21-03 and WES21-04-WES21-07

Viewing Direction: Northwest



Descriptive Photo - 4
Viewing Direction: Northwest
Desc: Top 2ft is still topsoil and caliches underneath
Created: 11/3/2021 1:44:09 PM
Lat:31.698897, Long:-104.491724

Top 2ft is still topsoil and caliches underneath

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: 
Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/4/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/4/2021 10:48 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/4/2021 8:00 AM</u>
Departed Site	<u>11/4/2021 3:30 PM</u>

Field Notes

10:04 Arrived on site to continue remediation.

10:05 Trying to step out WES21-09 with WES21-10 and WES21-11. Still dirty and trying to delineate that wall before moving to west side of spill.

11:11 Wall for WES21-09 was stepped out to WES21-14. All clean and moving to west side of spill to begin excavation there

14:06 Ran BES21-05 and WES21-15-WES21-17. All dirty

14:06 Took BES21-05 down to 6ft. All clean. Stepped WES21-15 and WES21-16 out a foot. All clean.

14:07 WES21-17 is being left alone for now because it is about 4ft away from pipeline. Can't step out at the moment.

Next Steps & Recommendations

1 Continue remediation tomorrow



Daily Site Visit Report

Site Photos

Viewing Direction: East



Descriptive Photo - 5
Viewing Direction: East
Date: Sample area for WES21-14
Created: 11/4/2021 12:41:39 PM
Lat:32.673768, Long:-104.488340

Sample area for WES21-14

Viewing Direction: North



Descriptive Photo - 6
Viewing Direction: North
Date: Beginning excavation on west side of spill
Created: 11/4/2021 12:41:44 PM
Lat:32.673858, Long:-104.488307

Beginning excavation on west side of spill

Viewing Direction: Northeast



Descriptive Photo - 8
Viewing Direction: Northeast
Date: Sample area for BES21-05
Created: 11/4/2021 12:46:05 PM
Lat:32.673682, Long:-104.488340

Sample area for BES21-05

Viewing Direction: Southwest

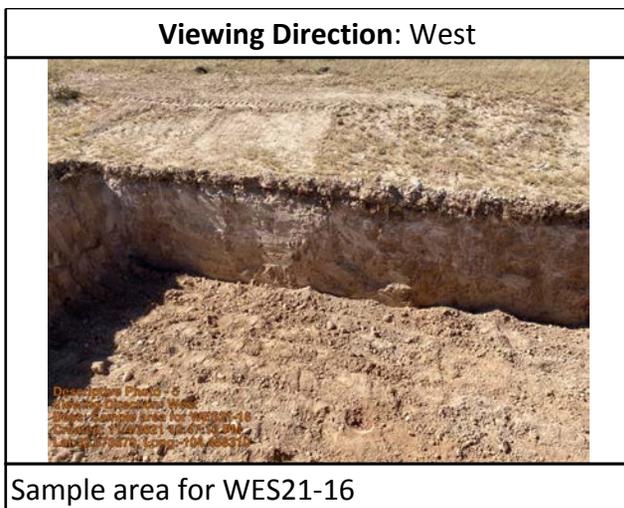


Descriptive Photo - 4
Viewing Direction: Southwest
Date: Sample area for WES21-15
Created: 11/4/2021 12:44:34 PM
Lat:32.673858, Long:-104.488307

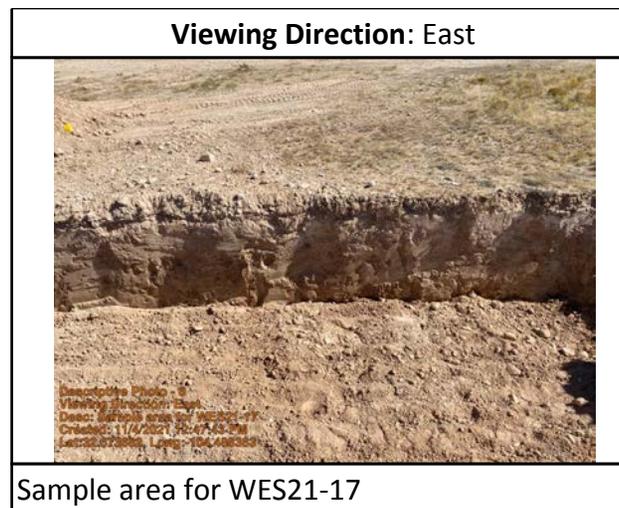
Sample area for WES21-15



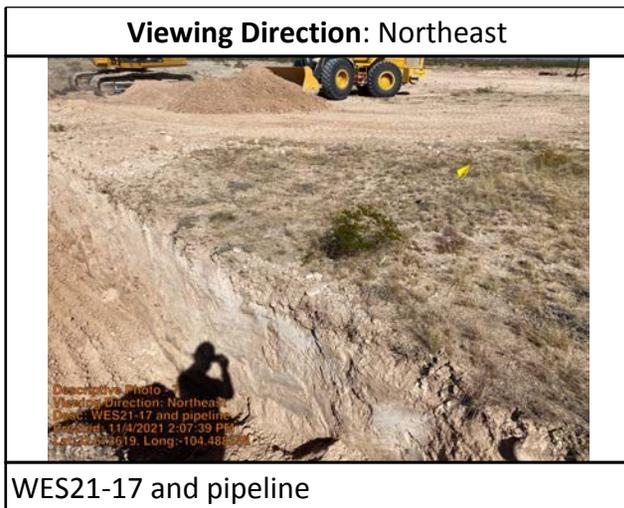
Daily Site Visit Report



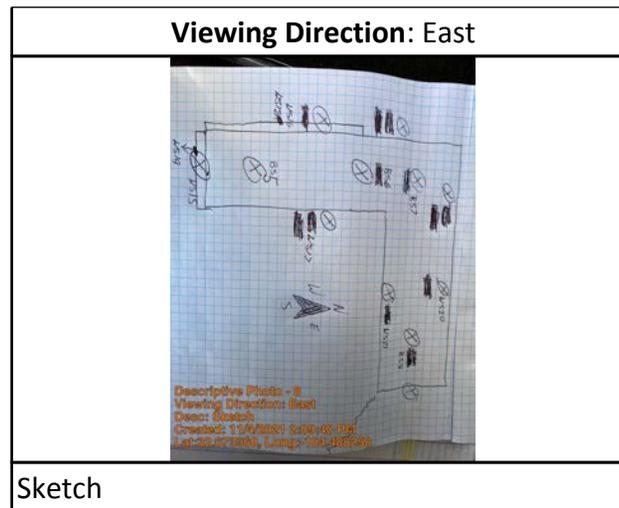
Sample area for WES21-16



Sample area for WES21-17



WES21-17 and pipeline



Sketch



Daily Site Visit Report

Viewing Direction: East
 A photograph showing a cross-section of a soil profile. The soil is light brown and appears to be composed of aggregate material. There are some darker, more textured layers visible, particularly in the middle section. The top surface is relatively flat but shows some minor erosion or unevenness. The bottom of the profile is also visible, showing a similar texture to the top layer.
Soil appears to be mostly aggregate with some caliche 0-4ft down

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:  _____
Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/5/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/5/2021 10:13 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/5/2021 8:25 AM</u>
Departed Site	<u>11/5/2021 3:15 PM</u>

Field Notes

- 10:10** Arrived on site to continue remediation on west side of pad
- 10:11** Ran BES21-06-WES21-08 and WES21-20-WES21-25. All but WES21-21-WES21-23 were clean.
- 10:11** WES21-21 is about four feet from the pipeline. Beginning to step out WES21-22-WES21-23
- 11:31** Stepped out WES21-22-WES21-23 with WES21-26-WES21-27. All clean
- 11:32** Moved back to east side of well head. Starting with WES21-28 and stepping it out
- 14:33** 160 yards hauled off today and 120 yards hauled off yesterday (11/4)

Next Steps & Recommendations

- 1 Come back next week to delineate wall for WES21-28 and continue excavation south



Daily Site Visit Report

Site Photos

Viewing Direction: Northeast



Descriptive Photo
Viewing Direction: Northeast
Desc: Sample area for WES21-21
Created: 11/5/2021 10:14:34 AM
Lat:32.673742, Long:-104.488023

Sample area for WES21-21

Viewing Direction: Northeast



Descriptive Photo
Viewing Direction: Northeast
Desc: Sample area for WES21-22-WES21-23
Created: 11/5/2021 10:14:34 AM
Lat:32.673742, Long:-104.488023

Sample area for WES21-22-WES21-23

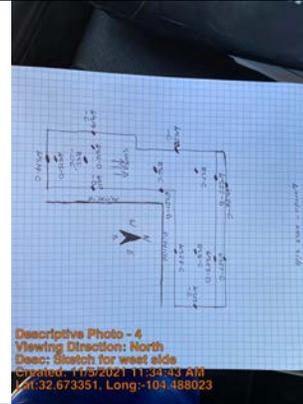
Viewing Direction: West



Descriptive Photo
Viewing Direction: West
Desc: Sample area for WES21-26-WES21-27
Created: 11/5/2021 11:34:43 AM
Lat:32.673351, Long:-104.488023

Sample area for WES21-26-WES21-27

Viewing Direction: North



Descriptive Photo - 4
Viewing Direction: North
Desc: Sketch for west side
Created: 11/5/2021 11:34:43 AM
Lat:32.673351, Long:-104.488023

Sketch for west side



Daily Site Visit Report



WES21-28 stepped out to WES21-33. Not clean



Excavation on east side



Excavation on west side



Stockpile.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature in black ink, appearing to be 'CD', written over a horizontal line.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/8/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/8/2021 11:44 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/8/2021 8:00 AM</u>
Departed Site	<u>11/8/2021 11:30 AM</u>

Field Notes

10:46 0815: JSA and contractor meetings with all field personnel (truck drivers included)
 - Signed Standards JSA
 - Dennis Williams also on site.
 - Gate procedure and Howell Ranch access stipulations/expectations were reviewed
 0830-0930: 160 YDS of Chloride contaminated soil removed off site for disposal at Leland.
 0845: Excavation review with Dennis
 0900: NMOCD spill review
 0930: Dennis off site.

Next Steps & Recommendations

1 8 bellies at 20 yds per truck hauled out 160 YDS at 0830 of chloride impacted material to Leland. They will hopefully haul out 2 more loads per vehicle before the end of the day. That would put us at 480 yards hauled with a remaining 200 yards left on stockpile (estimated). Chance will resume digging towards the middle of the pad and remaining chloride impacted area tomorrow. Field screens will be taken via titration only in order to prep for confirmation sampling on Monday of next week (tentative).



Daily Site Visit Report

Site Photos

Viewing Direction: West



Stockpile Photo

Viewing Direction: Northeast



Stockpile full extent. 8 bellies in and out of site total.

Viewing Direction: Northeast



East side excavation perimeter.

Viewing Direction: West



East side excavation extent.



Daily Site Visit Report

Viewing Direction: South



AssetName: Photo - 2
Viewing Direction: South
Desc: Stockpile and excavation movement towards the middle/dry hole marker.
Created: 11/8/2021 10:28:32 AM
Updated: 11/8/2021 10:28:32 AM

Stockpile and excavation movement towards the middle/dry hole marker.

Viewing Direction: East



AssetName: Photo - 3
Viewing Direction: East
Desc: Pit area/future clay liner location and extent.
Created: 11/8/2021 10:28:32 AM
Updated: 11/8/2021 10:28:32 AM

Pit area/future clay liner location and extent

Viewing Direction: Southwest



AssetName: Photo - 4
Viewing Direction: Southwest
Desc: West side excavation full overview.
Created: 11/8/2021 10:28:32 AM
Updated: 11/8/2021 10:28:32 AM

West side excavation full overview.

Viewing Direction: East



AssetName: Photo - 5
Viewing Direction: East
Desc: East SW 4' out from an abandoned 3" Steel line from the owner with load.
Created: 11/8/2021 10:28:32 AM
Updated: 11/8/2021 10:28:32 AM

East SW 4' out from an abandoned 3" Steel line from the owner with load. Waiting on approval by EOG to step out closer or have the line removed.



Daily Site Visit Report

Viewing Direction: North	
	
West excavation trench Furthest extent laterally N/S.	

Viewing Direction: West	
	
Access road and new gate location	

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Mike Moffitt

Signature: 
Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/9/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/9/2021 10:56 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/9/2021 8:15 AM</u>
Departed Site	<u>11/9/2021 3:00 PM</u>

Field Notes

- 10:43** Arrived on site to continue remediation.
- 10:45** Began stepping west wall of east excavation out. Ran samples BES21-09 and WES21-34-WES21-35. WES21-34-WES21-35 were dirty but are near the mud pit and pipeline. Cannot excavate around pipeline until we have clearance.
- 10:45** 360 yards were hauled off yesterday with Mike Moffitt on site.
- 12:38** EOG foreman arrived on site and let us know that pipeline is going to be removed in the near future. The time it will take place is undetermined
- 12:58** 320 yards hauled off today. Bringing the total to 960 for the remediation.
- 14:12** WES21-28 has been stepped out to WES21-39 and still high on chlorides. Going to step it out another 10ft to see if it's clean and if not we will connect the two excavations.

Next Steps & Recommendations

- 1** Continue remediation and haul tomorrow



Daily Site Visit Report

Site Photos

Viewing Direction: Northwest



Descriptive Photo - 1
Viewing Direction: Northwest
Desc: Sample for ID: BES21-09 and WES21-34/WES21-35
Created: 11/9/2021 10:46:53 AM
Lat:32.673764, Long:-104.487898

Sample are for BES21-09 and WES21-34-WES21-35

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Desc: Soil for sample area is topsoil down to 2ft, caliche down to 4ft, and aggregate on the bottom
Created: 11/9/2021 10:47:55 AM
Lat:32.673777, Long:-104.487903

Soil for sample area is topsoil down to 2ft, caliche down to 4ft, and aggregate on the bottom

Viewing Direction: West



Descriptive Photo - 3
Viewing Direction: West
Desc: Stockpile
Created: 11/9/2021 12:17:07 PM
Lat:32.673852, Long:-104.487754

Stockpile

Viewing Direction: East



Descriptive Photo - 4
Viewing Direction: East
Desc: Stockpile
Created: 11/9/2021 1:56:03 PM
Lat:32.673801, Long:-104.488026

Stockpile



Daily Site Visit Report

Viewing Direction: Northwest



Descriptive Photo - 6
Viewing Direction: Northwest
Digs: WES21-28 being stepped out to WES21-30
Created: 11/9/2021 1:35:40 PM
Lat:32.873716, Long:-104.489281

WES21-28 being stepped out to WES21-39

Viewing Direction: North



Descriptive Photo - 5
Viewing Direction: North
Digs: Operator working on digging side wall another 10ft and will be sampled tomorrow
Created: 11/9/2021 2:12:51 PM
Lat:32.873665, Long:-104.489110

Operator working on digging side wall another 10ft and will be sampled tomorrow

Viewing Direction: East



Descriptive Photo - 7
Viewing Direction: East
Digs: North wall getting close to mud pit and won't be delineated further
Created: 11/9/2021 2:14:19 PM
Lat:32.873847, Long:-104.489110

North wall getting close to mud pit and won't be delineated further

Viewing Direction: Southeast



Descriptive Photo - 4
Viewing Direction: Southeast
Digs: Excavation
Created: 11/9/2021 2:14:31 PM
Lat:32.873665, Long:-104.489110

Excavation

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:  _____
Signature

Next Steps & Recommendations

- 1 Begins sampling on south end tomorrow and continue excavation to the north

Run on 11/11/2021 12:19 AM UTC

Powered by www.krinkieldar.com

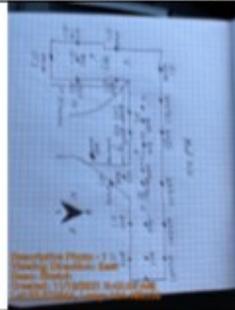
Page 1 of 4

Daily Site Visit Report



Site Photos

Viewing Direction: East



Sketch

Viewing Direction: Southwest



Both excavations are now connected

Viewing Direction: Southwest



Stockpile and trucks being loaded

Viewing Direction: Northwest



Stockpile



Stockpile being moved east



Beginning on south end working north.



Excavation is being kept on east side as much as possible to make sure equipment can get to the pipeline when it is removed



Soil appears to be topsoil 3ft down with 6in of caliche on top. Aggregate soil at 4ft

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Chance Dixon

Signature: CD



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/12/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/12/2021 8:50 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/12/2021 8:00 AM</u>
Departed Site	<u></u>

Field Notes

- 9:40** Arrived on site to continue excavation.
- 9:41** Digging enough to still have room for pipeline removal. Will sample it Monday. After that we will focus on getting some of the contaminated soil hauled off. 10 trucks are running today so we should get 400 yards out.

Next Steps & Recommendations

- 1 Sample 4ft area on Monday and continue remediation



Daily Site Visit Report

Site Photos

Viewing Direction: Northwest



Descriptive Photo - 1
Viewing Direction: Northwest
Desc: Current excavation
Created: 11/12/2021 10:28:45 AM
Lat:32.57396, Long:-104.48786

Current excavation

Viewing Direction: West



Descriptive Photo - 2
Viewing Direction: West
Desc: North end of south excavation
Created: 11/12/2021 10:28:45 AM
Lat:32.57396, Long:-104.48786

North end of south excavation

Viewing Direction: West



Descriptive Photo - 3
Viewing Direction: West
Desc: Two water trucks bringing two loads each for the road
Created: 11/12/2021 10:32:10 AM
Lat:32.57396, Long:-104.48906

Two water trucks bringing two loads each for the road

Viewing Direction: Northeast



Descriptive Photo - 4
Viewing Direction: Northeast
Desc: Current south excavation
Created: 11/12/2021 10:51:43 AM
Lat:32.573515, Long:-104.489122

Current south excavation



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/15/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/15/2021 11:30 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/15/2021 8:45 AM</u>
Departed Site	<u>11/15/2021 3:00 PM</u>

Field Notes

- 9:57** Arrived on site to continue remediation.
- 9:57** Collected BES21-15-BES21-16 and WES21-47-WES21-48. All clean except WES21-47. Stepping it out 3ft
- 10:47** Stepped WES21-47 out to WES21-50. All clean
- 11:21** Pipeline has not been removed. Will have to wait for it before we can continue south excavation to the north
- 11:26** Now focusing on getting north wall as close to the liner from the mud pit as possible

Next Steps & Recommendations

- 1** Continue excavation to the north when pipeline is removed



Daily Site Visit Report

Site Photos

Viewing Direction: North



Descriptive Photo - 1
Viewing Direction: North
Desc: Sample area for BES21-15-BES21-16 and WES21-47-WES21-48
Created: 11/15/2021 9:58:39 AM
Lat:32.673464, Long: -104.488068

Sample area for BES21-15-BES21-16 and WES21-47-WES21-48

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Desc: Stepped out WES21-47 3ft
Created: 11/15/2021 9:59:19 AM
Lat:32.673317, Long:-104.488123

Stepped out WES21-47 3ft

Viewing Direction: Northwest



Descriptive Photo - 3
Viewing Direction: Northwest
Desc: WES21-50 sample area
Created: 11/15/2021 10:04:24 AM
Lat:32.673369, Long:-104.488123

WES21-50 sample area

Viewing Direction: West



Descriptive Photo - 4
Viewing Direction: West
Desc: 10 trucks hauling today. Will get about 400 yards out
Created: 11/15/2021 11:20:47 AM
Lat:32.673366, Long:-104.488068

10 trucks hauling today. Will get about 400 yards out



Daily Site Visit Report

Viewing Direction: West



Descriptive Photo - 6
Viewing Direction: West
Desc: Extending north wall to the liner from the mud pit
Created: 11/15/2021 11:32:05 AM
Lat:32.673398, Long:-104.487757

Extending north wall to the liner from the mud pit

Viewing Direction: North



Descriptive Photo - 6
Viewing Direction: North
Desc: Site sketch
Created: 11/15/2021 11:32:05 AM
Lat:32.673398, Long:-104.487757

Site sketch

Viewing Direction: East



Descriptive Photo - 7
Viewing Direction: East
Desc: Extending north wall to the liner from the mud pit
Created: 11/15/2021 1:36:54 PM
Lat:32.673398, Long:-104.487757

Extending north wall to the liner from the mud pit

Viewing Direction: Northeast



Descriptive Photo - 8
Viewing Direction: Northeast
Desc: Excavation
Created: 11/15/2021 1:36:54 PM
Lat:32.673398, Long:-104.487757

Excavation

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature consisting of the letters 'C' and 'D' in a simple, cursive style.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/16/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/17/2021 12:53 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/16/2021 8:00 AM</u>
Departed Site	<u>11/16/2021 5:00 PM</u>

Field Notes

- 10:15** Arrived on site to continue remediation. Taking the south excavation to as close to the pipeline and north excavation as possible.
- 10:15** Eight trucks total today. Working on getting another two. Will haul out 360-400 yards today.
- 12:26** Collected and ran BES21-17-BES21-19 at 4ft and WES21-51-WES21-52. Both wall samples and BES21-17 are dirty. Sample area for BES21-17 will be taken down to 6ft and walls will be stepped out
- 15:17** BES21-17 still a tad hot at 6ft. Not digging deeper
- 15:17** WES21-52 was stepped out to WES21-54. All clean
- 15:53** WES21-51 stepped out to WES21-53. All clean

Next Steps & Recommendations

- 1** Step out last dirty wall of excavation on west side tomorrow. Begin confirmation sampling



Daily Site Visit Report

Site Photos

Viewing Direction: East



Descriptive Photo - 4
Viewing Direction: East
Desc: Wall being extended to approximately 3-4ft away from pipeline
Created: 11/16/2021 10:48:41 AM
Lat:32.573746, Long:-104.488178

Wall being extended to approximately 3-4ft away from pipeline

Viewing Direction: East



Descriptive Photo - 5
Viewing Direction: East
Desc: Wall being brought to white flagging
Created: 11/16/2021 10:17:18 AM
Lat:32.573746, Long:-104.488178

Wall being brought to white flagging

Viewing Direction: Southeast



Descriptive Photo - 6
Viewing Direction: Southeast
Desc: South excavation
Created: 11/16/2021 10:17:00 AM
Lat:32.573746, Long:-104.488178

South excavation

Viewing Direction: Northeast



Descriptive Photo - 7
Viewing Direction: Northeast
Desc: The two excavations lack about 8-10ft to be linked
Created: 11/16/2021 10:16:14 AM
Lat:32.573746, Long:-104.488178

The two excavations lack about 8-10ft to be linked



Daily Site Visit Report

Viewing Direction: Southeast



Descriptive Photo - 5
Viewing Direction: Southeast
Desc: Digging around dry well head
Created: 11/16/2021 11:31:28 AM
Lat:32.673732 Long:-104.488708

Digging around dry well head

Viewing Direction: East



Descriptive Photo - 6
Viewing Direction: East
Desc: Sample area for BES21-17-BES21-19 and WES21-51-WES21-52
Created: 11/16/2021 1:23:45 PM
Lat:32.673711 Long:-104.488184

Sample area for BES21-17-BES21-19 and WES21-51-WES21-52

Viewing Direction: Southeast



Descriptive Photo - 7
Viewing Direction: Southeast
Desc: Sample area for BES21-17 being brought down to 6ft
Created: 11/16/2021 1:34:30 PM
Lat:32.673733 Long:-104.488034

Sample area for BES21-17 being brought down to 6ft

Viewing Direction: East



Descriptive Photo - 8
Viewing Direction: East
Desc: Site sketch
Created: 11/16/2021 1:35:54 PM
Lat:32.673514 Long:-104.488249

Site sketch

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature consisting of the letters 'C' and 'D' in a cursive, looped style.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/17/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/17/2021 11:46 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site 11/17/2021 8:50 AM
 Departed Site 11/17/2021 3:44 PM

Field Notes

- 9:31** Arrived on site to begin confirmation sampling
- 9:32** Beginning 20 base samples along the north excavation
- 12:49** Collected BES21-01-BES21-20
- 13:41** BES21-01-BES21-16 are all clean on EC, PID, and PetroFlag
- 14:44** BES21-17-BES21-20 are all clean on EC, PID, and PetroFlag

Next Steps & Recommendations

- 1** Continue confirmation sampling tomorrow



Daily Site Visit Report

Site Photos

Viewing Direction: North



Descriptive Photo - 1
Viewing Direction: North
Desc: Sample area for BES21-01-BES21-03
Created: 11/17/2021 12:31:32 PM
Lat:32.573964, Long:-104.488350

Sample area for BES21-01-BES21-03

Viewing Direction: East



Descriptive Photo - 2
Viewing Direction: East
Desc: Sample area for BES21-04-BES21-08
Created: 11/17/2021 12:36:21 PM
Lat:32.573794, Long:-104.488350

Sample area for BES21-04-BES21-08

Viewing Direction: East



Descriptive Photo - 3
Viewing Direction: East
Desc: Ten trucks hauling today. Getting 400 yards hauled off. Total will be 3,240
Created: 11/17/2021 1:27:43 PM
Lat:32.573544, Long:-104.488350

Ten trucks hauling today. Getting 400 yards hauled off. Total will be 3,240.

Viewing Direction: East



Descriptive Photo - 4
Viewing Direction: East
Desc: Sample area for BES21-09-BES21-11
Created: 11/17/2021 2:34:27 PM
Lat:32.573866, Long:-104.488350

Sample area for BES21-09-BES21-11



Daily Site Visit Report

Viewing Direction: Southeast



Description Photo - 1
Viewing Direction: Southeast
Date: Sample area for BES21-12-BES21-14
Created: 11/17/2021 1:25:54 PM
Lat: 37.3889, Long: 104.281889

Sample area for BES21-12-BES21-14

Viewing Direction: South



Description Photo - 2
Viewing Direction: South
Date: Sample area for BES21-15
Created: 11/17/2021 1:26:04 PM
Lat: 37.3889, Long: 104.281889

Sample area for BES21-15

Viewing Direction: Southwest



Description Photo - 3
Viewing Direction: Southwest
Date: Sample area for BES21-16-BES21-20 near the wall
Created: 11/17/2021 1:26:14 PM
Lat: 37.3889, Long: 104.281889

Sample area for BES21-16-BES21-20 near the wall

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature in black ink, appearing to be 'CD', written above a horizontal line.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/18/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/19/2021 12:00 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/18/2021 9:00 AM</u>
Departed Site	<u>11/18/2021 3:45 PM</u>

Field Notes

- 9:11** Arrived on site to continue confirmation sampling.
- 11:44** Collected BES21-21-BES21-29. All clean on EC, PID, and PetroFlag
- 14:43** WES21-01-WES21-11 are all clean on EC, PID, and PetroFlag
- 14:54** 160 yards were hauled out today. Bringing the total to 3,340 yards total. Yesterday's DFR showed 40 yards more than what we actually have hauled off

Next Steps & Recommendations

- 1** Continue confirmation sampling tomorrow



Daily Site Visit Report

Site Photos

Viewing Direction: Southeast



Descriptive Photo - 1
Viewing Direction: Southeast
Desc: Sample area for BES21-21-BES21-29
Created: 11/18/2021 2:44:31 PM
Lat:32.677796, Long:-104.488391

Sample area for BES21-21-BES21-29

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Desc: Sample area for WES21-01-WES21-03
Created: 11/18/2021 2:44:01 PM
Lat:32.677796, Long:-104.488391

Sample area for WES21-01-WES21-03

Viewing Direction: Northeast



Descriptive Photo - 3
Viewing Direction: Northeast
Desc: Sample area for WES21-04-WES21-05
Created: 11/18/2021 2:44:34 PM
Lat:32.673796, Long:-104.488391

Sample area for WES21-04-WES21-05

Viewing Direction: North

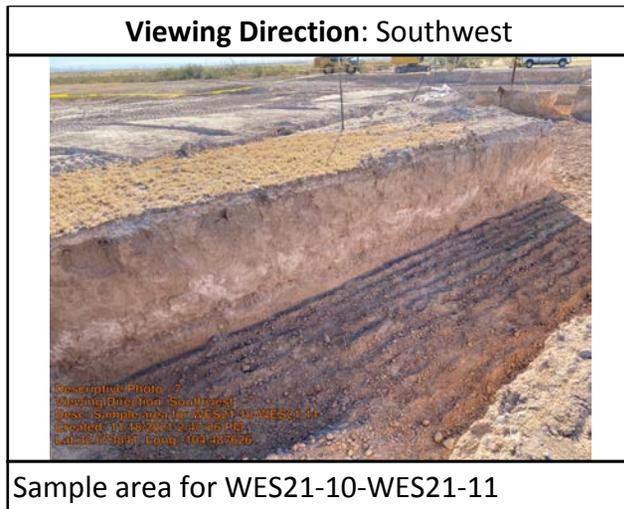
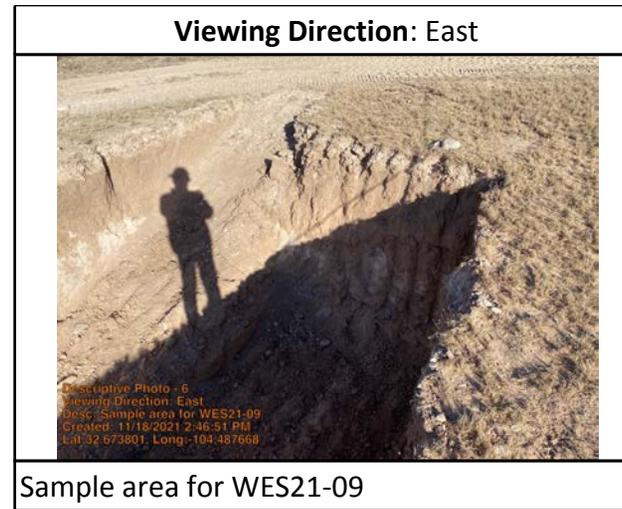
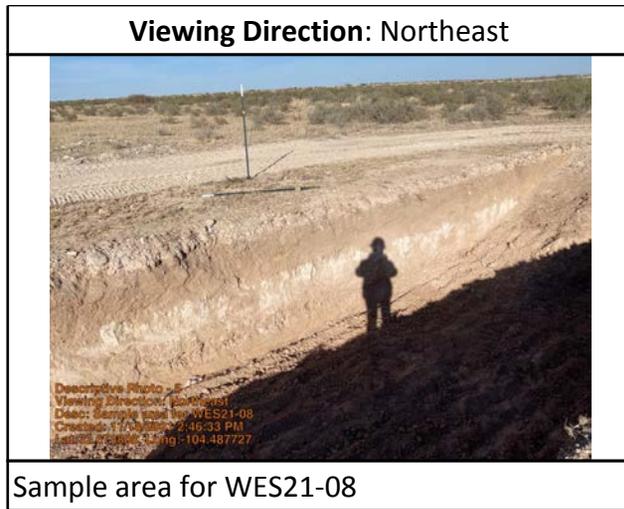


Descriptive Photo - 4
Viewing Direction: North
Desc: Sample area for WES21-06-WES21-07
Created: 11/18/2021 2:44:31 PM
Lat:32.673796, Long:-104.488391

Sample area for WES21-06-WES21-07



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: 
Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/19/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/19/2021 11:00 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/19/2021 8:50 AM</u>
Departed Site	<u>11/19/2021 3:00 PM</u>

Field Notes

- 11:47** Arrived on site to continue confirmation sampling
- 11:47** Collected WES21-12-WES21-26 around the south excavation
- 13:50** WES21-12-WES21-26 are all clean on EC, PID, and PetroFlag

Next Steps & Recommendations

- 1** Complete confirmation sampling on Monday



Daily Site Visit Report

Site Photos

Viewing Direction: South



Descriptive Photo - 1
Viewing Direction: South
Desc: Sample area for WES21-12-WES21-13
Created: 11/19/2021 11:53:59 AM
Lat:32.673667 Long:104.487320

Sample area for WES21-12-WES21-13

Viewing Direction: Northeast



Descriptive Photo - 2
Viewing Direction: Northeast
Desc: Sample area for WES21-15
Created: 11/19/2021 11:53:59 AM
Lat:32.673667 Long:104.487320

Sample area for WES21-15

Viewing Direction: Southeast



Descriptive Photo - 3
Viewing Direction: Southeast
Desc: Sample area for WES21-16-WES21-18
Created: 11/19/2021 11:53:59 AM
Lat:32.673667 Long:104.487320

Sample area for WES21-16-WES21-18

Viewing Direction: Southeast



Descriptive Photo - 4
Viewing Direction: Southeast
Desc: Sample area for WES21-19
Created: 11/19/2021 11:53:59 AM
Lat:32.673667 Long:104.487320

Sample area for WES21-19



Daily Site Visit Report

Viewing Direction: Northwest



Descriptive Photo -
Viewing Direction: Northwest
Date: Sample area for WES21-20-WES21-23
Created: 11/19/2021 11:54:42 AM
Lat:32.073856, Long: -104.488110

Sample area for WES21-20-WES21-23

Viewing Direction: West



Descriptive Photo -
Viewing Direction: West
Date: Sample area for WES21-24
Created: 11/19/2021 11:54:41 AM
Lat:32.073856, Long: -104.488110

Sample area for WES21-24

Viewing Direction: Northwest



Descriptive Photo -
Viewing Direction: Northwest
Date: Sample area for WES21-25-WES21-26
Created: 11/19/2021 11:54:43 AM
Lat:32.073856, Long: -104.488110

Sample area for WES21-25-WES21-26

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature consisting of the letters 'C' and 'D' in a simple, blocky font.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/22/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/22/2021 10:13 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/22/2021 10:05 AM</u>
Departed Site	<u>11/22/2021 2:00 PM</u>

Field Notes

- 10:33** Arrived on site to continue confirmation sampling
- 13:07** Collected WES21-27-WES21-34 and BES21-30-BES21-32. All clean on EC,PID, and PetroFlag

Next Steps & Recommendations

- 1** Analytical results are showing four dirty base samples (BES21-08-BES21-09 and BES21-16-BES21-17. Will dig down to 6ft to recollect and complete confirmation tomorrow



Daily Site Visit Report

Site Photos

Viewing Direction: North



Sample area for WES21-27-WES21-28

Viewing Direction: Southeast



Sample area for WES21-29-WES21-31

Viewing Direction: Southeast



Sample area for WES21-32-WES21-34

Viewing Direction: East



Sample area for BES21-30-BES21-32

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: CD
Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/23/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/23/2021 11:54 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/23/2021 7:50 AM</u>
Departed Site	<u>11/23/2021 3:30 PM</u>

Field Notes

- 7:52** Arrived on site to excavate affected areas from analytical results and continue confirmation sampling
- 9:37** Collected BES21-33-BES21-40. All clean on EC and PID
- 10:07** Collected BES21-08-BES21-09 and BES21-16-BES21-17 at 6ft. All clean on EC and PID. Sending back to lab for analytical.
- 11:58** All sample points that were needed for confirmation have been established. We will assess any failed samples that come back from lab.

Next Steps & Recommendations

- 1** Expose pipeline tomorrow



Daily Site Visit Report

Site Photos

Viewing Direction: East



Descriptive Photo - 3
Viewing Direction: East
View: Sample area for BES21-33-BES21-35
Created: 11/23/2021 9:38:11 AM
Lat:32.87295, Long: -104.48916

Sample area for BES21-33-BES21-35

Viewing Direction: East



Descriptive Photo - 3
Viewing Direction: East
View: Sample area for BES21-36-BES21-40
Created: 11/23/2021 9:38:57 AM
Lat:32.87295, Long: -104.48933

Sample area for BES21-36-BES21-40

Viewing Direction: North



Descriptive Photo - 3
Viewing Direction: North
View: Sample area for BES21-08-BES21-09 and BES21-16-BES21-17 being taken down to 6ft
Created: 11/23/2021 9:40:39 AM
Lat:32.873785, Long: -104.48906

Sample area for BES21-08-BES21-09 and BES21-16-BES21-17 being taken down to 6ft

Viewing Direction: Northeast

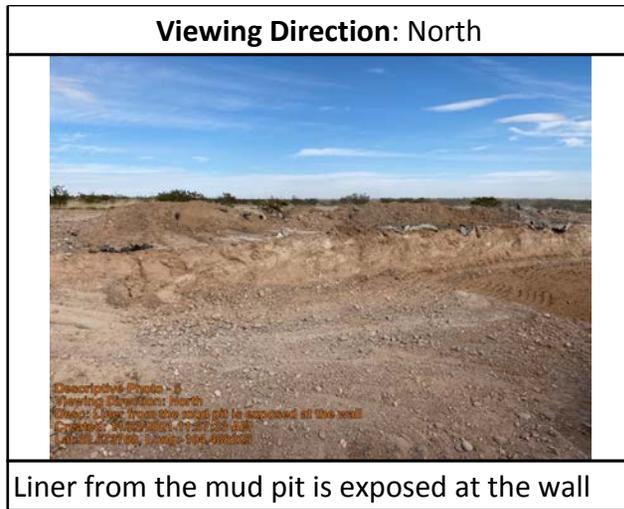


Descriptive Photo - 3
Viewing Direction: Northeast
View: Sample areas taken down to 6ft
Created: 11/23/2021 9:44:11 AM
Lat:32.87379, Long: -104.48796

Sample areas taken down to 6ft



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature in black ink, appearing to be 'CD' or similar initials, written above a horizontal line.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/24/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/24/2021 7:24 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/24/2021 7:05 AM</u>
Departed Site	<u>11/24/2021 12:00 PM</u>

Field Notes

- 8:05** Arrived on site to work on exposing the pipeline running to the well head
- 10:53** Pipeline is fully exposed in the dirty area

Next Steps & Recommendations

- 1** Come back next week to assess any failed samples and haul out the stockpile



Daily Site Visit Report

Site Photos

Viewing Direction: Northeast



Descriptive Photo - 3
Viewing Direction: Northeast
Desc: Pipeline almost fully exposed
Created: 11/24/2021 10:42:27 AM
Lat:32.873747, Long:-104.68834

Pipeline almost fully exposed

Viewing Direction: East



Descriptive Photo - 3
Viewing Direction: East
Desc: Pipeline
Created: 11/24/2021 10:42:46 AM
Lat:32.873777, Long:-104.68834

Pipeline

Viewing Direction: Northeast



Descriptive Photo - 3
Viewing Direction: Northeast
Desc: Pipeline
Created: 11/24/2021 10:43:19 AM
Lat:32.873746, Long:-104.68872

Pipeline

Viewing Direction: West



Descriptive Photo - 3
Viewing Direction: West
Desc: Pipeline
Created: 11/24/2021 10:43:41 AM
Lat:32.873746, Long:-104.68834

Pipeline

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

Handwritten initials 'CD' in black ink.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>11/29/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>11/30/2021 4:51 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>11/29/2021 8:30 AM</u>
Departed Site	<u>11/29/2021 11:23 AM</u>

Field Notes

- 9:21** Arrived on site to load trucks. Eight trucks should be hauling today. Only five have showed up for first load
- 11:22** Five trucks have shown up to haul 100 yards so far. 200 yards estimated for the day

Next Steps & Recommendations

- 1** Bring more trucks to haul tomorrow.

Daily Site Visit Report



Site Photos

Viewing Direction: North



400-500 yards left in the stock pile

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature consisting of the letters 'C' and 'D' in a cursive, looped style.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>12/1/2021</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>12/2/2021 12:08 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>12/1/2021 8:58 AM</u>
Departed Site	<u>12/1/2021 4:10 PM</u>

Field Notes

8:58 Arrived on site to take photos of soil lithology for the excavation.

Next Steps & Recommendations

1



Daily Site Visit Report

Site Photos

Viewing Direction: Southeast



Descriptive Photo - 1
Viewing Direction: Southeast
Desc: 6in of topsoil down to aggregate. Aggregate
Created: 12/1/2021 10:08:31 AM
Lat:32.673462, Long:-104.687960

6in of topsoil down to aggregate. South side of excavation.

Viewing Direction: East



Descriptive Photo - 2
Viewing Direction: East
Desc: 6in-3ft aggregate.
Created: 12/1/2021 10:08:31 AM
Lat:32.673462, Long:-104.687960

6in-42in aggregate. South side of excavation.

Viewing Direction: East



Descriptive Photo - 3
Viewing Direction: East
Desc: 42-66in clay/caliche
Created: 12/1/2021 10:08:31 AM
Lat:32.673462, Long:-104.687960

42-66in clay/caliche. South side of excavation.

Viewing Direction: West



Descriptive Photo - 4
Viewing Direction: West
Desc: 6in of topsoil
Created: 12/1/2021 4:01:20 PM
Lat:32.673462, Long:-104.688378

6in of topsoil. West side of excavation.



Daily Site Visit Report

Viewing Direction: West



Descriptive Photo - 5
Viewing Direction: West
Desc: 6in down to 4ft aggregate. West side of excavation.
Created: 12/1/2021 4:32:30 PM
Lat:32.673754, Long:-104.486377

6in down to 4ft aggregate. West side of excavation

Viewing Direction: Southwest



Descriptive Photo - 6
Viewing Direction: Southwest
Desc: 5in of topsoil. East side of excavation.
Created: 12/1/2021 5:04:57 PM
Lat:32.673790, Long:-104.487888

5in of topsoil. East side of excavation.

Viewing Direction: South



Descriptive Photo - 7
Viewing Direction: South
Desc: 5in-42in is aggregate. East side of excavation.
Created: 12/1/2021 4:32:58 PM
Lat:32.673796, Long:-104.487884

5in-42in is aggregate. East side of excavation.

Viewing Direction: South



Descriptive Photo - 8
Viewing Direction: South
Desc: 42in-6ft is caliche/clay. East side of excavation.
Created: 12/1/2021 4:06:19 PM
Lat:32.673801, Long:-104.487882

42in-6ft is caliche/clay. East side of excavation.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: CD
Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>1/13/2022</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>1/14/2022 2:07 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>1/13/2022 7:45 AM</u>
Departed Site	<u>1/13/2022 4:15 PM</u>

Field Notes

- 8:23** Arrived on site to expose pipeline on the west side in order to complete confirmation
- 8:26** Exposing the pipeline at the wall and a bucket length on the other side by the end of the day
- 11:57** Joel with EOG came to do one call for the site.
- 8:49** Pipeline has been spotted at the corner. Working it back toward the south.
- 9:56** Pipe is now exposed all the way down the wall. Now going to dig underneath it to put sand bags underneath.
- 16:06** Still working to put the rest of the exposed line on sand bags

Next Steps & Recommendations

- 1** Continue digging underneath the line tomorrow and complete confirmation sampling



Daily Site Visit Report

Site Photos

Viewing Direction: Northwest



Descriptive Photo: 1
Viewing Direction: Northwest
Desc: Spotting the line by hand.
Created: 1/13/2022 8:24:01 AM
Lat: 32.873600, Long: -104.488233

Spotting the line by hand

Viewing Direction: Northwest



Descriptive Photo: 2
Viewing Direction: Northwest
Desc: Gently pulling the dirt from north to south on west side of pipe.
Created: 1/13/2022 8:27:52 AM
Lat: 32.873600, Long: -104.488233

Gently pulling the dirt from north to south on west side of pipe.

Viewing Direction: West



Descriptive Photo: 3
Viewing Direction: West
Desc: Excavating down about 1' on top and then hand digging the rest to expose it.
Created: 1/13/2022 8:31:12 AM
Lat: 32.873600, Long: -104.488233

Excavating down about 1' on top and then hand digging the rest to expose it

Viewing Direction: Southeast



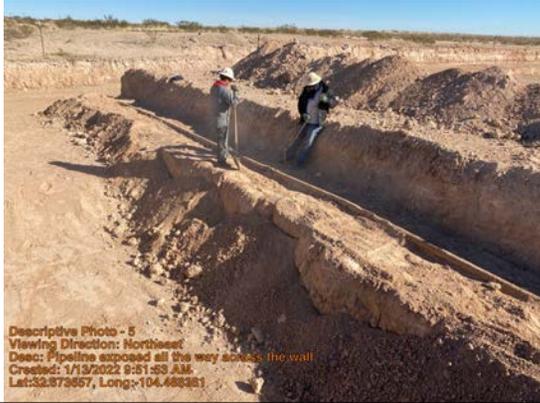
Descriptive Photo: 4
Viewing Direction: Southeast
Desc: Pipeline spotted at the corner.
Created: 1/13/2022 8:34:00 AM
Lat: 32.873600, Long: -104.488233

Pipeline spotted at the corner



Daily Site Visit Report

Viewing Direction: Northeast



Descriptive Photo - 5
Viewing Direction: Northeast
Desc: Pipeline exposed all the way across the wall
Created: 1/13/2022 9:51:53 AM
Lat:32.673657, Long:-104.488381

Pipeline exposed all the way across the wall.

Viewing Direction: East



Descriptive Photo - 6
Viewing Direction: East
Desc: Pipeline on sandbags
Created: 1/13/2022 11:28:18 AM
Lat:32.673723, Long:-104.488440

Pipeline on sandbags

Viewing Direction: Northwest



Descriptive Photo - 7
Viewing Direction: Northwest
Desc: Pipeline exposed and sitting on sandbags all the way across the wall
Created: 1/13/2022 11:28:18 AM
Lat:32.673723, Long:-104.488440

Pipeline exposed and sitting on sandbags all the way across the wall

Viewing Direction: Northeast



Descriptive Photo - 8
Viewing Direction: Northeast
Desc: Putting the rest of the exposed line on sand bags
Created: 1/13/2022 4:05:46 PM
Lat:32.673729, Long:-104.488174

Putting the rest of the exposed line on sand bags

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature consisting of the letters 'C' and 'D' in a simple, cursive style.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>1/14/2022</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>1/14/2022 8:26 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>1/14/2022 8:35 AM</u>
Departed Site	<u>1/14/2022 12:30 PM</u>

Field Notes

- 8:39** Arrived on site to complete confirmation.
- 9:48** All of where the pipeline is exposed is up on sand bags.
- 9:48** Sloping the south edge of the mud pit to get it ready for a liner
- 10:21** Collected WES22-35-WES22-36. All clean on EC, PID, and PetroFlag.

Next Steps & Recommendations

1



Daily Site Visit Report

Site Photos

Viewing Direction: Northwest



Descriptive Photo - 1
Viewing Direction: Northwest
Desc: Exposed pipelines on sand bags
Created: 1/14/2022 9:42:59 AM
Lat:32.673723, Long: -104.487888

Exposed pipelines up on sand bags

Viewing Direction: Northeast



Descriptive Photo - 2
Viewing Direction: Northeast
Desc: Sample area for WES22-35
Created: 1/14/2022 10:22:28 AM
Lat:32.673840, Long: -104.488251

Sample area for WES22-35

Viewing Direction: Southwest



Descriptive Photo - 3
Viewing Direction: Southwest
Desc: Sample area for WES22-36
Created: 1/14/2022 10:54:18 AM
Lat:32.673840, Long: -104.488251

Sample area for WES22-36

Viewing Direction: Northwest



Descriptive Photo - 4
Viewing Direction: Northwest
Desc: Mud pit sloped
Created: 1/14/2022 12:10:48 PM
Lat:32.673840, Long: -104.487766

Mud pit sloped

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature consisting of the letters 'C' and 'D' in a cursive, looped style.

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>2/11/2022</u>
Site Location Name:	<u>Warren ANW Federal #6</u>	Report Run Date:	<u>2/11/2022 8:52 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>2/11/2022 7:10 AM</u>
Departed Site	<u>2/11/2022 8:15 AM</u>

Field Notes

- 7:32** Arrived on site to complete confirmation sampling
- 7:33** Collecting WES22-37 through WES22-40 along the south mud pit wall. Collecting BES22-41 through BES22-44 at 4' in the middle of the excavation.
- 7:49** BES22-37 through BES22-40 are clean on all field screening.

Next Steps & Recommendations

- 1 No recommendations at this time.



Daily Site Visit Report

Site Photos

Viewing Direction: Northwest



Descriptive Photo - 1
Viewing Direction: Northwest
Desc: Sample area for WES22-37 through WES22-40
Created: 2/11/2022 7:34:26 AM
Lat: 32.673735, Long: -104.487766

Sample area for WES22-37 through WES22-40

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Desc: Sample area for BES22-41 through BES22-44
Created: 2/11/2022 7:35:17 AM
Lat: 32.673735, Long: -104.487766

Sample area for BES22-41 through BES22-44

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature in black ink, consisting of a large 'C' followed by a 'D'.

Signature

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/3/21)

Sampling											
		Field Screening						Lab Analysis	Data Collection		Refusal Depth (ft)
		Hydrocarbon		Chloride					Photo Taken	Marked on Sketch	
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)				
BES21-01	4.0	0		0.87	17.9	1291		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-01	6.0	0	15	0.24	17.5	399		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-02	2.0	0		0.70	20.9	916		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-02	4.0	0		0.76	22.3	942		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-02	6.0	0	20	0.17	20.4	173		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-03	2.0	0		0.91	21.2	1206		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-03	4.0	0		0.90	22	1157		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-03	6.0	0	28	0.16	20.4	158		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-04	2.0	0		1.07	21.29	1433		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



BES21-04	4.0	0		1.50	20.5	2088		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-01	2.0	0		0.16	17.7	275		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-02	2.0	0		0.24	17.1	417		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-03	2.0	0		0.25	17.1	431		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-04	1.0	0		0.20	20.1	229		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-05	1.0	0		0.40	20.9	483		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-06	1.0	0		0.73	22.2	903		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-07	1.0	0		1.31	21.5	1770		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-08	2.0	0		0.39	22	421		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-09	2.0	0		1.50	21.5	2045		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/4/21)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES21-04	6.0	0	20	0.35	18.4	519		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-05	4.0	0		0.62	19.8	848		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-05	6.0	0	5	0.26	21.2	268		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-10	3.0	0		1.49	18	2182		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-11	3.0	0		1.01	19.4	1428		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-12	3.0	0		0.79	18.9	1132		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-13	3.0	0		0.65	18.6	943		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-14	3.0	0		0.35	19.5	471		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-15	0.7	0		0.71	20.3	956		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	



Daily Soil Sampling

WES21-16	3.0	0		0.58	20.2	773		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-17	3.0	0		0.80	20.8	1065		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-18	3.0	0		0.31	20.5	370		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-19	3.0	0		0.39	21.2	456		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/5/21)

Sampling											
		Field Screening						Lab Analysis	Data Collection		Refusal Depth (ft)
		Hydrocarbon		Chloride					Photo Taken	Marked on Sketch	
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)				
BES21-06	4.0	0	10	0.39	18	594		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-07	4.0	0	30	0.25	18.3	379		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-08	4.0	0	25	0.34	18.2	513		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-20	2.0	0	0	0.29	18.2	441		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-21	2.0	0		0.54	18	811		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-22	2.0	0		0.55	18.7	795		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-23	2.0	0		0.60	18.9	858		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-24	2.0	0		0.27	18.8	386		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-25	2.0	0		0.34	18	522		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	



Daily Soil Sampling

WES21-26	2.0	0		0.36	19.9	469		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-27	2.0	0		0.26	18.9	368		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-28	2.0	0		0.85	19.8	1180		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-29	3.0	0		0.85	21	1128		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-30	2.0	0		0.81	20.9	1075		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-31	2.0	0		0.80	19.7	1112		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-32	2.0	0		0.78	19.9	1075		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-33	2.0	0		0.87	20.8	1166		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/9/21)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES21-09	4.0	0	20				485	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-10	2.0	0					1257	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-10	4.0	0	17	0.32	23.8	242		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-34	2.0	0					1184	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-35	2.0	0					2025	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-36	1.0	0					1750	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-37	2.0	0					1087	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-38	2.0	0		1.16	22.8	1498		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-39	2.0	0		1.22	24.2	1524		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

							(EPA SW-846 Method 8015M)		✓	
WES21-41	2.0	0		0.93	19.2	1322	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/15/21)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES21-15	4.0	0	55	0.45	19.4	620		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-16	4.0	0	23	0.37	19.4	505		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-47	2.0	0		0.73	19.3	1029		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-48	2.0	0		0.40	19.4	548		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-49	2.0	0		0.61	20.3	812		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-50	2.0	0		0.34	20.9	396		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/16/21)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES21-17	4.0	0		0.70	21.5	890		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-17	6.0	0	15	0.44	22	493		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-18	4.0	0	67	0.39	21.4	447		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-19	4.0	0	73	0.35	20.1	445		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-51	2.0	0		0.52	21.2	643		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-52	2.0	0		0.68	23.3	783		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-53	2.0	0		0.64	22.4	764		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-54	3.0	0		0.35	20.1	445		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-55	2.0	0		0.39	20.3	495		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/17/21)

Sampling											
Sample ID	Depth (ft)	Field Screening						Lab Analysis	Data Collection		Refusal Depth (ft)
		Hydrocarbon		Chloride					Photo Taken	Marked on Sketch	
		VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)				
BES21-01	6.0	0	38	0.45	20.5	572		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-02	4.0	0	3	0.39	21	464		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-03	4.0	0	28	0.38	20.2	484		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-04	4.0	0	47	0.37	20.9	440		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-05	4.0	0	54	0.38	20.6	467		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-06	4.0	0	0	0.33	21.1	373		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-07	4.0	0	33	0.37	21.2	427		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-08	4.0	0	31	0.40	21.4	461		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-09	4.0	0	29	0.39	21.6	438		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	

Daily Soil Sampling



BES21-10	4.0	0	30	0.37	21.7	405		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-11	4.0	0	9	0.35	21.2	398		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-12	6.0	0	0	0.25	21.2	253		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-13	6.0	0	34	0.35	21.6	381		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-14	6.0	0	0	0.40	21.4	461		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-15	6.0	0	21	0.40	21.5	457		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-16	4.0	0	8	0.37	21.5	414		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-17	4.0	0	26	0.38	21.9	411		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-18	4.0	0	31	0.38	21.5	428		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-19	4.0	0	12	0.30	21.6	308		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES21-20	4.0	0	5	0.28	21.2	297		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/18/21)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES21-21	4.0	0	21	0.35	19	493		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-22	4.0	0	30	0.37	17.4	591		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-23	6.0	0	32	0.31	17.2	513		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-24	6.0	0	28	0.31	17.2	513		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-25	4.0	0	40	0.37	17.3	596		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-26	4.0	0	52	0.33	17.2	542		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-27	4.0	0	22	0.35	17.7	549		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-28	6.0	0	18	0.35	17.2	571		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-01	3.0	0	21	0.37	19.1	518		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	



Daily Soil Sampling

WES21-02	2.0	0	5	0.19	19.5	241		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-03	2.0	0	9	0.32	19.4	432		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-04	2.0	0	10	0.39	19.2	542		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-05	2.0	0	0	0.40	19.7	535		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-06	3.0	0	2	0.10	19.6	106		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-07	3.0	0	0	0.12	19.3	148		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-08	3.0	0	5	0.18	19	248		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-09	3.0	0	9	0.24	19.1	330		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-10	3.0	0	20	0.15	19.6	178		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-11	3.0	0	18	0.11	19.5	125		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/19/21)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
WES21-12	3.0	0	29	0.16	18	262		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-13	3.0	0	42	0.38	18.1	575		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-14	3.0	0	18	0.19	16.4	375		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-15	3.0	0	5	0.35	16.8	588		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-16	3.0	0	6	0.34	16.7	578		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-17	3.0	0	10	0.32	16.3	567		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-18	3.0	0	11	0.34	16.7	578		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-19	3.0	0	22	0.35	17.6	554		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-20	3.0	0	46	0.37	18.4	548		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	



Daily Soil Sampling

WES21-21	3.0	0	19	0.36	18	551	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓
WES21-22	2.0	0	4	0.37	17.5	587	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓
WES21-23	2.0	0	25	0.29	16.5	515	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓
WES21-24	2.0	0	21	0.36	18.2	542	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓
WES21-25	2.0	0	30	0.38	17.8	588	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓
WES21-26	2.0	0	41	0.30	16.4	533	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/22/21)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES21-30	4.0	0	18	0.39	20	508		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-31	4.0	0	34	0.32	20.1	402		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-32	6.0	0	39	0.29	19.8	372		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-27	2.0	0	54	0.35	19.5	471		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-28	2.0	0	23	0.28	19.6	366		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-29	2.0	0	41	0.32	19.6	424		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-30	2.0	0	39	0.30	19.7	391		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-31	2.0	0	13	0.31	19.7	405		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-32	2.0	0	6	0.34	19.7	448		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	



Daily Soil Sampling

WES21-33	2.0	0	12	0.29	19.9	368		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES21-34	2.0	0	23	0.37	20	479		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 11/23/21)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES21-08	6.0	0		0.30	19	421		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-09	6.0	0		0.29	18.8	415		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-16	6.0	0		0.31	18	479		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-17	6.0	0		0.30	18.1	460		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-33	4.0	0		0.19	18.2	297		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-34	4.0	0		0.25	18.2	383		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-35	4.0	0		0.26	18.4	389		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-36	4.0	0		0.35	18.5	515		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-37	6.0	0		0.14	18.5	212		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	



Daily Soil Sampling

BES21-38	6.0	0		0.21	18.7	304		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-39	6.0	0		0.31	18.9	440		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES21-40	6.0	0		0.36	19	508		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	



Daily Soil Sampling

Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 1/14/22)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
WES22-35	3.0	0	20	0.18	19.4	230		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
WES22-36	3.0	0	14	0.19	19.2	253		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

Daily Soil Sampling



Client: Client: EOG Resources Inc.

Location: Site: Warren ANW Federal #6

Date: (SD: 2/11/22)

Sampling											
		Field Screening								Data Collection	
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-41	4.0	0	61	0.30	17	508		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES22-42	4.0	0	29	0.28	17.3	466		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES22-43	4.0	0	74	0.34	17.2	557		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BES22-44	4.0	0	45	0.35	17.4	562		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

ATTACHMENT 7



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

November 29, 2021

Mike Moffitt
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Warron ANW Federal 6

OrderNo.: 2111A01

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 20 sample(s) on 11/19/2021 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 2111A01

Date Reported: 11/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-01 6'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 9:00:00 AM

Lab ID: 2111A01-001

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	350	60		mg/Kg	20	11/19/2021 5:49:09 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/19/2021 5:23:42 PM	64052
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/19/2021 5:23:42 PM	64052
Surr: DNOP	91.3	70-130		%Rec	1	11/19/2021 5:23:42 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	11/19/2021 2:16:55 PM	B82982
Surr: BFB	103	70-130		%Rec	1	11/19/2021 2:16:55 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	11/19/2021 2:16:55 PM	E82982
Toluene	ND	0.042		mg/Kg	1	11/19/2021 2:16:55 PM	E82982
Ethylbenzene	ND	0.042		mg/Kg	1	11/19/2021 2:16:55 PM	E82982
Xylenes, Total	ND	0.084		mg/Kg	1	11/19/2021 2:16:55 PM	E82982
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	11/19/2021 2:16:55 PM	E82982

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 2111A01

Date Reported: 11/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-02 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 9:10:00 AM

Lab ID: 2111A01-002

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	480	60		mg/Kg	20	11/19/2021 6:51:12 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/19/2021 5:48:06 PM	64052
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/19/2021 5:48:06 PM	64052
Surr: DNOP	93.1	70-130		%Rec	1	11/19/2021 5:48:06 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	11/19/2021 2:40:25 PM	B82982
Surr: BFB	100	70-130		%Rec	1	11/19/2021 2:40:25 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/19/2021 2:40:25 PM	E82982
Toluene	ND	0.040		mg/Kg	1	11/19/2021 2:40:25 PM	E82982
Ethylbenzene	ND	0.040		mg/Kg	1	11/19/2021 2:40:25 PM	E82982
Xylenes, Total	ND	0.079		mg/Kg	1	11/19/2021 2:40:25 PM	E82982
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/19/2021 2:40:25 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-03 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 9:20:00 AM

Lab ID: 2111A01-003

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	480	59		mg/Kg	20	11/19/2021 7:28:27 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/19/2021 6:12:28 PM	64052
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/19/2021 6:12:28 PM	64052
Surr: DNOP	91.1	70-130		%Rec	1	11/19/2021 6:12:28 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	11/19/2021 3:03:55 PM	B82982
Surr: BFB	103	70-130		%Rec	1	11/19/2021 3:03:55 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/19/2021 3:03:55 PM	E82982
Toluene	ND	0.036		mg/Kg	1	11/19/2021 3:03:55 PM	E82982
Ethylbenzene	ND	0.036		mg/Kg	1	11/19/2021 3:03:55 PM	E82982
Xylenes, Total	ND	0.072		mg/Kg	1	11/19/2021 3:03:55 PM	E82982
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/19/2021 3:03:55 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-04 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 9:30:00 AM

Lab ID: 2111A01-004

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	110	60		mg/Kg	20	11/19/2021 7:40:52 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/19/2021 6:36:48 PM	64052
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/19/2021 6:36:48 PM	64052
Surr: DNOP	97.5	70-130		%Rec	1	11/19/2021 6:36:48 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	11/19/2021 3:27:39 PM	B82982
Surr: BFB	99.5	70-130		%Rec	1	11/19/2021 3:27:39 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/19/2021 3:27:39 PM	E82982
Toluene	ND	0.038		mg/Kg	1	11/19/2021 3:27:39 PM	E82982
Ethylbenzene	ND	0.038		mg/Kg	1	11/19/2021 3:27:39 PM	E82982
Xylenes, Total	ND	0.075		mg/Kg	1	11/19/2021 3:27:39 PM	E82982
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/19/2021 3:27:39 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-05 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 9:40:00 AM

Lab ID: 2111A01-005

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	87	60		mg/Kg	20	11/19/2021 7:53:17 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/19/2021 7:01:01 PM	64052
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/19/2021 7:01:01 PM	64052
Surr: DNOP	86.9	70-130		%Rec	1	11/19/2021 7:01:01 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	11/19/2021 3:51:10 PM	B82982
Surr: BFB	97.5	70-130		%Rec	1	11/19/2021 3:51:10 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	11/19/2021 3:51:10 PM	E82982
Toluene	ND	0.034		mg/Kg	1	11/19/2021 3:51:10 PM	E82982
Ethylbenzene	ND	0.034		mg/Kg	1	11/19/2021 3:51:10 PM	E82982
Xylenes, Total	ND	0.067		mg/Kg	1	11/19/2021 3:51:10 PM	E82982
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/19/2021 3:51:10 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-06 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 9:50:00 AM

Lab ID: 2111A01-006

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	230	60		mg/Kg	20	11/19/2021 8:05:42 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/19/2021 7:25:11 PM	64052
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/19/2021 7:25:11 PM	64052
Surr: DNOP	85.5	70-130		%Rec	1	11/19/2021 7:25:11 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	11/19/2021 5:24:28 PM	B82982
Surr: BFB	100	70-130		%Rec	1	11/19/2021 5:24:28 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/19/2021 5:24:28 PM	E82982
Toluene	ND	0.035		mg/Kg	1	11/19/2021 5:24:28 PM	E82982
Ethylbenzene	ND	0.035		mg/Kg	1	11/19/2021 5:24:28 PM	E82982
Xylenes, Total	ND	0.070		mg/Kg	1	11/19/2021 5:24:28 PM	E82982
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/19/2021 5:24:28 PM	E82982

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 2111A01

Date Reported: 11/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-07 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 10:00:00 AM

Lab ID: 2111A01-007

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	150	60		mg/Kg	20	11/19/2021 8:18:07 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/19/2021 7:49:35 PM	64052
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/19/2021 7:49:35 PM	64052
Surr: DNOP	89.3	70-130		%Rec	1	11/19/2021 7:49:35 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	11/19/2021 5:47:58 PM	B82982
Surr: BFB	97.9	70-130		%Rec	1	11/19/2021 5:47:58 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/19/2021 5:47:58 PM	E82982
Toluene	ND	0.035		mg/Kg	1	11/19/2021 5:47:58 PM	E82982
Ethylbenzene	ND	0.035		mg/Kg	1	11/19/2021 5:47:58 PM	E82982
Xylenes, Total	ND	0.070		mg/Kg	1	11/19/2021 5:47:58 PM	E82982
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	11/19/2021 5:47:58 PM	E82982

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 2111A01

Date Reported: 11/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-08 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 10:10:00 AM

Lab ID: 2111A01-008

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	980	60		mg/Kg	20	11/19/2021 8:55:20 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/19/2021 8:13:47 PM	64052
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/19/2021 8:13:47 PM	64052
Surr: DNOP	93.3	70-130		%Rec	1	11/19/2021 8:13:47 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	11/19/2021 6:11:28 PM	B82982
Surr: BFB	99.7	70-130		%Rec	1	11/19/2021 6:11:28 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/19/2021 6:11:28 PM	E82982
Toluene	ND	0.040		mg/Kg	1	11/19/2021 6:11:28 PM	E82982
Ethylbenzene	ND	0.040		mg/Kg	1	11/19/2021 6:11:28 PM	E82982
Xylenes, Total	ND	0.080		mg/Kg	1	11/19/2021 6:11:28 PM	E82982
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/19/2021 6:11:28 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-09 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 10:20:00 AM

Lab ID: 2111A01-009

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	60		mg/Kg	20	11/19/2021 9:07:45 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/19/2021 8:38:05 PM	64052
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/19/2021 8:38:05 PM	64052
Surr: DNOP	83.8	70-130		%Rec	1	11/19/2021 8:38:05 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	11/19/2021 6:34:55 PM	B82982
Surr: BFB	99.8	70-130		%Rec	1	11/19/2021 6:34:55 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	11/19/2021 6:34:55 PM	E82982
Toluene	ND	0.034		mg/Kg	1	11/19/2021 6:34:55 PM	E82982
Ethylbenzene	ND	0.034		mg/Kg	1	11/19/2021 6:34:55 PM	E82982
Xylenes, Total	ND	0.069		mg/Kg	1	11/19/2021 6:34:55 PM	E82982
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/19/2021 6:34:55 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-10 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 10:30:00 AM

Lab ID: 2111A01-010

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	210	60		mg/Kg	20	11/19/2021 9:20:10 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/19/2021 9:02:24 PM	64052
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/19/2021 9:02:24 PM	64052
Surr: DNOP	72.7	70-130		%Rec	1	11/19/2021 9:02:24 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	11/19/2021 6:58:13 PM	B82982
Surr: BFB	101	70-130		%Rec	1	11/19/2021 6:58:13 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	11/19/2021 6:58:13 PM	E82982
Toluene	ND	0.041		mg/Kg	1	11/19/2021 6:58:13 PM	E82982
Ethylbenzene	ND	0.041		mg/Kg	1	11/19/2021 6:58:13 PM	E82982
Xylenes, Total	ND	0.082		mg/Kg	1	11/19/2021 6:58:13 PM	E82982
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/19/2021 6:58:13 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-11 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 10:40:00 AM

Lab ID: 2111A01-011

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	67	61		mg/Kg	20	11/19/2021 9:32:34 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/19/2021 9:26:47 PM	64052
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/19/2021 9:26:47 PM	64052
Surr: DNOP	75.5	70-130		%Rec	1	11/19/2021 9:26:47 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	11/19/2021 7:21:26 PM	B82982
Surr: BFB	101	70-130		%Rec	1	11/19/2021 7:21:26 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	11/19/2021 7:21:26 PM	E82982
Toluene	ND	0.036		mg/Kg	1	11/19/2021 7:21:26 PM	E82982
Ethylbenzene	ND	0.036		mg/Kg	1	11/19/2021 7:21:26 PM	E82982
Xylenes, Total	ND	0.071		mg/Kg	1	11/19/2021 7:21:26 PM	E82982
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/19/2021 7:21:26 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-12 6'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 10:50:00 AM

Lab ID: 2111A01-012

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	240	60		mg/Kg	20	11/19/2021 9:44:59 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/22/2021 11:47:09 AM	64052
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/22/2021 11:47:09 AM	64052
Surr: DNOP	99.8	70-130		%Rec	1	11/22/2021 11:47:09 AM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	11/19/2021 7:45:00 PM	B82982
Surr: BFB	99.4	70-130		%Rec	1	11/19/2021 7:45:00 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	11/19/2021 7:45:00 PM	E82982
Toluene	ND	0.051		mg/Kg	1	11/19/2021 7:45:00 PM	E82982
Ethylbenzene	ND	0.051		mg/Kg	1	11/19/2021 7:45:00 PM	E82982
Xylenes, Total	ND	0.10		mg/Kg	1	11/19/2021 7:45:00 PM	E82982
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/19/2021 7:45:00 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-13 6'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 11:00:00 AM

Lab ID: 2111A01-013

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	140	60		mg/Kg	20	11/19/2021 9:57:23 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/19/2021 10:15:16 PM	64052
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/19/2021 10:15:16 PM	64052
Surr: DNOP	73.6	70-130		%Rec	1	11/19/2021 10:15:16 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	11/19/2021 8:08:27 PM	B82982
Surr: BFB	99.4	70-130		%Rec	1	11/19/2021 8:08:27 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	11/19/2021 8:08:27 PM	E82982
Toluene	ND	0.034		mg/Kg	1	11/19/2021 8:08:27 PM	E82982
Ethylbenzene	ND	0.034		mg/Kg	1	11/19/2021 8:08:27 PM	E82982
Xylenes, Total	ND	0.068		mg/Kg	1	11/19/2021 8:08:27 PM	E82982
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/19/2021 8:08:27 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-14 6'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 11:10:00 AM

Lab ID: 2111A01-014

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	260	60		mg/Kg	20	11/19/2021 10:09:48 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/19/2021 10:39:22 PM	64052
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/19/2021 10:39:22 PM	64052
Surr: DNOP	73.6	70-130		%Rec	1	11/19/2021 10:39:22 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	11/19/2021 8:31:44 PM	B82982
Surr: BFB	102	70-130		%Rec	1	11/19/2021 8:31:44 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	11/19/2021 8:31:44 PM	E82982
Toluene	ND	0.039		mg/Kg	1	11/19/2021 8:31:44 PM	E82982
Ethylbenzene	ND	0.039		mg/Kg	1	11/19/2021 8:31:44 PM	E82982
Xylenes, Total	ND	0.077		mg/Kg	1	11/19/2021 8:31:44 PM	E82982
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/19/2021 8:31:44 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-15 6'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 11:20:00 AM

Lab ID: 2111A01-015

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	510	60		mg/Kg	20	11/19/2021 10:22:12 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/19/2021 11:03:32 PM	64052
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/19/2021 11:03:32 PM	64052
Surr: DNOP	72.7	70-130		%Rec	1	11/19/2021 11:03:32 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	11/19/2021 8:55:13 PM	B82982
Surr: BFB	102	70-130		%Rec	1	11/19/2021 8:55:13 PM	B82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	11/19/2021 8:55:13 PM	E82982
Toluene	ND	0.034		mg/Kg	1	11/19/2021 8:55:13 PM	E82982
Ethylbenzene	ND	0.034		mg/Kg	1	11/19/2021 8:55:13 PM	E82982
Xylenes, Total	ND	0.068		mg/Kg	1	11/19/2021 8:55:13 PM	E82982
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/19/2021 8:55:13 PM	E82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-16 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 11:30:00 AM

Lab ID: 2111A01-016

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	600	60		mg/Kg	20	11/19/2021 10:34:37 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/19/2021 11:27:37 PM	64052
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/19/2021 11:27:37 PM	64052
Surr: DNOP	82.9	70-130		%Rec	1	11/19/2021 11:27:37 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	11/19/2021 10:05:37 PM	C82982
Surr: BFB	99.7	70-130		%Rec	1	11/19/2021 10:05:37 PM	C82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/19/2021 10:05:37 PM	F82982
Toluene	ND	0.040		mg/Kg	1	11/19/2021 10:05:37 PM	F82982
Ethylbenzene	ND	0.040		mg/Kg	1	11/19/2021 10:05:37 PM	F82982
Xylenes, Total	ND	0.080		mg/Kg	1	11/19/2021 10:05:37 PM	F82982
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/19/2021 10:05:37 PM	F82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-17 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 11:40:00 AM

Lab ID: 2111A01-017

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	690	59		mg/Kg	20	11/19/2021 10:47:02 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/19/2021 11:51:47 PM	64052
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/19/2021 11:51:47 PM	64052
Surr: DNOP	74.5	70-130		%Rec	1	11/19/2021 11:51:47 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	11/19/2021 11:15:47 PM	C82982
Surr: BFB	102	70-130		%Rec	1	11/19/2021 11:15:47 PM	C82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	11/19/2021 11:15:47 PM	F82982
Toluene	ND	0.040		mg/Kg	1	11/19/2021 11:15:47 PM	F82982
Ethylbenzene	ND	0.040		mg/Kg	1	11/19/2021 11:15:47 PM	F82982
Xylenes, Total	ND	0.079		mg/Kg	1	11/19/2021 11:15:47 PM	F82982
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/19/2021 11:15:47 PM	F82982

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 2111A01

Date Reported: 11/29/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-18 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 11:50:00 AM

Lab ID: 2111A01-018

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	580	60		mg/Kg	20	11/19/2021 11:24:16 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/22/2021 12:10:58 PM	64052
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/22/2021 12:10:58 PM	64052
Surr: DNOP	89.8	70-130		%Rec	1	11/22/2021 12:10:58 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/20/2021 12:26:10 AM	C82982
Surr: BFB	102	70-130		%Rec	1	11/20/2021 12:26:10 AM	C82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/20/2021 12:26:10 AM	F82982
Toluene	ND	0.046		mg/Kg	1	11/20/2021 12:26:10 AM	F82982
Ethylbenzene	ND	0.046		mg/Kg	1	11/20/2021 12:26:10 AM	F82982
Xylenes, Total	ND	0.092		mg/Kg	1	11/20/2021 12:26:10 AM	F82982
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/20/2021 12:26:10 AM	F82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-19 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 12:00:00 PM

Lab ID: 2111A01-019

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	230	60		mg/Kg	20	11/19/2021 11:36:41 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/22/2021 12:34:48 PM	64052
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/22/2021 12:34:48 PM	64052
Surr: DNOP	108	70-130		%Rec	1	11/22/2021 12:34:48 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	11/20/2021 12:49:33 AM	C82982
Surr: BFB	102	70-130		%Rec	1	11/20/2021 12:49:33 AM	C82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	11/20/2021 12:49:33 AM	F82982
Toluene	ND	0.043		mg/Kg	1	11/20/2021 12:49:33 AM	F82982
Ethylbenzene	ND	0.043		mg/Kg	1	11/20/2021 12:49:33 AM	F82982
Xylenes, Total	ND	0.085		mg/Kg	1	11/20/2021 12:49:33 AM	F82982
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/20/2021 12:49:33 AM	F82982

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 **2111A01**

Date Reported: **11/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-20 4'

Project: Warron ANW Federal 6

Collection Date: 11/17/2021 12:10:00 PM

Lab ID: 2111A01-020

Matrix: MEOH (SOIL)

Received Date: 11/19/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	270	61		mg/Kg	20	11/19/2021 11:49:05 PM	64060
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/22/2021 12:58:41 PM	64052
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/22/2021 12:58:41 PM	64052
Surr: DNOP	102	70-130		%Rec	1	11/22/2021 12:58:41 PM	64052
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	11/20/2021 1:12:56 AM	C82982
Surr: BFB	102	70-130		%Rec	1	11/20/2021 1:12:56 AM	C82982
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	11/20/2021 1:12:56 AM	F82982
Toluene	ND	0.033		mg/Kg	1	11/20/2021 1:12:56 AM	F82982
Ethylbenzene	ND	0.033		mg/Kg	1	11/20/2021 1:12:56 AM	F82982
Xylenes, Total	ND	0.066		mg/Kg	1	11/20/2021 1:12:56 AM	F82982
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/20/2021 1:12:56 AM	F82982

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#: 2111A01

29-Nov-21

Client: EOG
Project: Warron ANW Federal 6

Sample ID: MB-64060	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64060	RunNo: 82983								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2948476	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64060	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64060	RunNo: 82983								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2948477	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E 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#: 2111A01

29-Nov-21

Client: EOG
Project: Warron ANW Federal 6

Sample ID: LCS-64052	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64052	RunNo: 82977								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2948127	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.7	68.9	135			
Surr: DNOP	4.2		5.000		84.0	70	130			

Sample ID: MB-64052	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64052	RunNo: 82977								
Prep Date: 11/19/2021	Analysis Date: 11/19/2021	SeqNo: 2948129	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		94.7	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#: 2111A01

29-Nov-21

Client: EOG
Project: Warron ANW Federal 6

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: B82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947648			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.6	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: B82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947649			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	95.5	78.6	131			
Surr: BFB	1200		1000		115	70	130			

Sample ID: mb-II	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: C82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947670			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	70	130			

Sample ID: 2.5ug gro lcs-II	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: C82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947671			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	95.0	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#: 2111A01

29-Nov-21

Client: EOG
Project: Warron ANW Federal 6

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: E82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947691			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

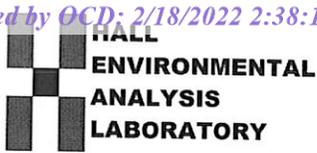
Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: E82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947692			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.5	80	120			
Toluene	0.96	0.050	1.000	0	95.7	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-II	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: F82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947713			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		102	70	130			

Sample ID: 100ng btex lcs-II	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: F82982	RunNo: 82982								
Prep Date:	Analysis Date: 11/19/2021	SeqNo: 2947714			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.7	80	120			
Toluene	1.0	0.050	1.000	0	99.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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: 2111A01

RcptNo: 1

Received By: Cheyenne Cason 11/19/2021 8:00:00 AM

Completed By: Sean Livingston 11/19/2021 8:25:55 AM

Reviewed By: [Signature] 11/19/21

[Handwritten signatures]

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] 11/19/21

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

Mailing Address: 00 Fill

Phone #: _____

email or Fax#: _____

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

Accreditation: Az Compliance Other

NELAC Other

EDD (Type) _____

Turn-Around Time: 1 - Day

Standard Rush

Project Name: Warren ANM Federal #6

Project #: Z/E-03278-011

Project Manager: MIKE MOFFETT

Sampler: CD

On Ice: Yes No

of Coolers: 2 1.9-0=1.9

Cooler Temp (including CF): 2.4-0=2.4 (°C)

Container Type and # 40Z TCC

Preservative Type _____

HEAL No. Z111A01

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/17	9:00	SOIL	RES21-01 6'	40Z TCC		001
	9:10		RES21-02 4'			002
	9:20		BES21-03 4'			003
	9:30		BES21-04 4'			004
	9:40		BES21-05 4'			005
	9:50		RES21-06 4'			006
	10:00		RES21-07 4'			007
	10:10		BES21-08 4'			008
	10:20		BES21-09 4'			009
	10:30		BES21-10 4'			010
	10:40		BES21-11 4'			011
	10:50		RES21-12 6'			012

Relinquished by: [Signature]

Relinquished by: [Signature]

Date: 11/18/20

Date: 11/18/20

Via: Express

Date: 11/18/20

Date: 11/18/20



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request	
<input checked="" type="checkbox"/> BTEX / MTBE / TMB's (8021)	
<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	
<input type="checkbox"/> 8081 Pesticides/8082 PCB's	
<input type="checkbox"/> EDB (Method 504.1)	
<input type="checkbox"/> PAHs by 8310 or 8270SIMS	
<input type="checkbox"/> RCRA 8 Metals	
<input type="checkbox"/> Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
<input type="checkbox"/> 8260 (VOA)	
<input type="checkbox"/> 8270 (Semi-VOA)	
<input type="checkbox"/> Total Coliform (Present/Absent)	

Remarks: CC: Chance Dixon, MIKE MOFFETT

Direct Bill EOG Resources

Chain-of-Custody Record

Client: EOG

Mailing Address: CD Field

Phone #: _____

email or Fax#: _____

QA/QC Package: Level 4 (Full Validation)

Standard Az Compliance Other

Accreditation: NELAC Other

EDD (Type) _____

Turn-Around Time: 1- Day

Standard Rush

Project Name: Warren ANW Federal #16

Project #: ZIE-03278-D11

Project Manager: MIKE MOFFITT

Sampler: CD

On Ice: Yes No

of Coolers: 2 1.9-0 = 1.9

Cooler Temp (including cF): 2.4-0 = 2.4 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/17	11:00	SOIL	BES21-13 6'	4 OZ	ICE	013
	11:10		BES21-14 6'			014
	11:20		BES21-15 6'			015
	11:30		BES21-16 4'			016
	11:40		BES21-17 4'			017
	11:50		BES21-18 4'			018
	12:00		BES21-19 4'			019
	12:10		BES21-20 4'			020

Analysis Request	BTX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								

Received by: Alumino Date: 11/17/11 Time: 1030

Received by: one case Date: 11/17/11 Time: 0800

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: Alumino Date: _____ Time: _____

Remarks: CCI: Chaneel Dixon, Mike Moffitt
Direct B71 EOG Resources

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

November 30, 2021

Mike Moffitt
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Warren ANW Federal 6

OrderNo.: 2111A66

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 20 sample(s) on 11/20/2021 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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-21 4'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 9:00:00 AM

Lab ID: 2111A66-001

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	110	60		mg/Kg	20	11/22/2021 5:50:49 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/23/2021 2:10:10 PM	64099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 2:10:10 PM	64099
Surr: DNOP	89.6	70-130		%Rec	1	11/23/2021 2:10:10 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2021 9:32:00 PM	64088
Surr: BFB	93.9	70-130		%Rec	1	11/23/2021 9:32:00 PM	64088
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/23/2021 9:32:00 PM	64088
Toluene	ND	0.048		mg/Kg	1	11/23/2021 9:32:00 PM	64088
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2021 9:32:00 PM	64088
Xylenes, Total	ND	0.095		mg/Kg	1	11/23/2021 9:32:00 PM	64088
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	11/23/2021 9:32:00 PM	64088

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-22 4'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 9:10:00 AM

Lab ID: 2111A66-002

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/22/2021 6:27:52 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/23/2021 2:42:13 PM	64099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 2:42:13 PM	64099
Surr: DNOP	82.8	70-130		%Rec	1	11/23/2021 2:42:13 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/23/2021 9:52:00 PM	64088
Surr: BFB	97.6	70-130		%Rec	1	11/23/2021 9:52:00 PM	64088
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/23/2021 9:52:00 PM	64088
Toluene	ND	0.046		mg/Kg	1	11/23/2021 9:52:00 PM	64088
Ethylbenzene	ND	0.046		mg/Kg	1	11/23/2021 9:52:00 PM	64088
Xylenes, Total	ND	0.093		mg/Kg	1	11/23/2021 9:52:00 PM	64088
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	11/23/2021 9:52:00 PM	64088

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-23 6'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 9:20:00 AM

Lab ID: 2111A66-003

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	350	60		mg/Kg	20	11/22/2021 6:40:13 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/23/2021 2:52:52 PM	64099
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/23/2021 2:52:52 PM	64099
Surr: DNOP	94.7	70-130		%Rec	1	11/23/2021 2:52:52 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/23/2021 10:12:00 PM	64088
Surr: BFB	98.3	70-130		%Rec	1	11/23/2021 10:12:00 PM	64088
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	11/23/2021 10:12:00 PM	64088
Toluene	ND	0.049		mg/Kg	1	11/23/2021 10:12:00 PM	64088
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2021 10:12:00 PM	64088
Xylenes, Total	ND	0.098		mg/Kg	1	11/23/2021 10:12:00 PM	64088
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	11/23/2021 10:12:00 PM	64088

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-24 6'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 9:30:00 AM

Lab ID: 2111A66-004

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	250	60		mg/Kg	20	11/22/2021 6:52:34 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/23/2021 3:03:33 PM	64099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2021 3:03:33 PM	64099
Surr: DNOP	118	70-130		%Rec	1	11/23/2021 3:03:33 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2021 10:31:00 PM	64088
Surr: BFB	94.1	70-130		%Rec	1	11/23/2021 10:31:00 PM	64088
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/23/2021 10:31:00 PM	64088
Toluene	ND	0.047		mg/Kg	1	11/23/2021 10:31:00 PM	64088
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2021 10:31:00 PM	64088
Xylenes, Total	ND	0.095		mg/Kg	1	11/23/2021 10:31:00 PM	64088
Surr: 4-Bromofluorobenzene	87.3	70-130		%Rec	1	11/23/2021 10:31:00 PM	64088

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-25 4'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 9:40:00 AM

Lab ID: 2111A66-005

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	170	60		mg/Kg	20	11/22/2021 7:04:55 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/24/2021 12:21:34 PM	64099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/24/2021 12:21:34 PM	64099
Surr: DNOP	96.3	70-130		%Rec	1	11/24/2021 12:21:34 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/23/2021 11:30:00 PM	64088
Surr: BFB	94.8	70-130		%Rec	1	11/23/2021 11:30:00 PM	64088
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/23/2021 11:30:00 PM	64088
Toluene	ND	0.046		mg/Kg	1	11/23/2021 11:30:00 PM	64088
Ethylbenzene	ND	0.046		mg/Kg	1	11/23/2021 11:30:00 PM	64088
Xylenes, Total	ND	0.093		mg/Kg	1	11/23/2021 11:30:00 PM	64088
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	11/23/2021 11:30:00 PM	64088

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-26 4'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 9:50:00 AM

Lab ID: 2111A66-006

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	510	60		mg/Kg	20	11/22/2021 7:17:18 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/23/2021 3:24:54 PM	64099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2021 3:24:54 PM	64099
Surr: DNOP	128	70-130		%Rec	1	11/23/2021 3:24:54 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2021 11:50:00 PM	64088
Surr: BFB	96.7	70-130		%Rec	1	11/23/2021 11:50:00 PM	64088
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/23/2021 11:50:00 PM	64088
Toluene	ND	0.048		mg/Kg	1	11/23/2021 11:50:00 PM	64088
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2021 11:50:00 PM	64088
Xylenes, Total	ND	0.097		mg/Kg	1	11/23/2021 11:50:00 PM	64088
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	11/23/2021 11:50:00 PM	64088

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-27 4'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 10:00:00 AM

Lab ID: 2111A66-007

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	140	60		mg/Kg	20	11/22/2021 7:54:20 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/23/2021 3:35:36 PM	64099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 3:35:36 PM	64099
Surr: DNOP	92.0	70-130		%Rec	1	11/23/2021 3:35:36 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/23/2021 9:10:57 AM	64092
Surr: BFB	100	70-130		%Rec	1	11/23/2021 9:10:57 AM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 9:10:57 AM	64092
Toluene	ND	0.049		mg/Kg	1	11/23/2021 9:10:57 AM	64092
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2021 9:10:57 AM	64092
Xylenes, Total	ND	0.097		mg/Kg	1	11/23/2021 9:10:57 AM	64092
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	11/23/2021 9:10:57 AM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-28 6'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 10:10:00 AM

Lab ID: 2111A66-008

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/22/2021 8:06:42 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/23/2021 3:46:16 PM	64099
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 3:46:16 PM	64099
Surr: DNOP	78.6	70-130		%Rec	1	11/23/2021 3:46:16 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2021 10:21:26 AM	64092
Surr: BFB	100	70-130		%Rec	1	11/23/2021 10:21:26 AM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 10:21:26 AM	64092
Toluene	ND	0.047		mg/Kg	1	11/23/2021 10:21:26 AM	64092
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2021 10:21:26 AM	64092
Xylenes, Total	ND	0.095		mg/Kg	1	11/23/2021 10:21:26 AM	64092
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/23/2021 10:21:26 AM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-29 6'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 10:20:00 AM

Lab ID: 2111A66-009

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/22/2021 8:19:03 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/23/2021 3:56:55 PM	64099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 3:56:55 PM	64099
Surr: DNOP	92.0	70-130		%Rec	1	11/23/2021 3:56:55 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2021 11:32:11 AM	64092
Surr: BFB	103	70-130		%Rec	1	11/23/2021 11:32:11 AM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 11:32:11 AM	64092
Toluene	ND	0.048		mg/Kg	1	11/23/2021 11:32:11 AM	64092
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2021 11:32:11 AM	64092
Xylenes, Total	ND	0.096		mg/Kg	1	11/23/2021 11:32:11 AM	64092
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/23/2021 11:32:11 AM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-01 3'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 10:30:00 AM

Lab ID: 2111A66-010

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	210	60		mg/Kg	20	11/22/2021 8:31:24 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/23/2021 4:07:34 PM	64099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 4:07:34 PM	64099
Surr: DNOP	73.2	70-130		%Rec	1	11/23/2021 4:07:34 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2021 11:55:47 AM	64092
Surr: BFB	102	70-130		%Rec	1	11/23/2021 11:55:47 AM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 11:55:47 AM	64092
Toluene	ND	0.047		mg/Kg	1	11/23/2021 11:55:47 AM	64092
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2021 11:55:47 AM	64092
Xylenes, Total	ND	0.094		mg/Kg	1	11/23/2021 11:55:47 AM	64092
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/23/2021 11:55:47 AM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-02 2'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 10:40:00 AM

Lab ID: 2111A66-011

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	230	61		mg/Kg	20	11/22/2021 8:43:44 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/23/2021 4:18:11 PM	64099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 4:18:11 PM	64099
Surr: DNOP	117	70-130		%Rec	1	11/23/2021 4:18:11 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2021 12:19:26 PM	64092
Surr: BFB	103	70-130		%Rec	1	11/23/2021 12:19:26 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/23/2021 12:19:26 PM	64092
Toluene	ND	0.047		mg/Kg	1	11/23/2021 12:19:26 PM	64092
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2021 12:19:26 PM	64092
Xylenes, Total	ND	0.093		mg/Kg	1	11/23/2021 12:19:26 PM	64092
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/23/2021 12:19:26 PM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-03 2'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 10:50:00 AM

Lab ID: 2111A66-012

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	170	60		mg/Kg	20	11/22/2021 8:56:05 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/23/2021 4:28:49 PM	64099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 4:28:49 PM	64099
Surr: DNOP	86.6	70-130		%Rec	1	11/23/2021 4:28:49 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/23/2021 12:43:03 PM	64092
Surr: BFB	103	70-130		%Rec	1	11/23/2021 12:43:03 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 12:43:03 PM	64092
Toluene	ND	0.049		mg/Kg	1	11/23/2021 12:43:03 PM	64092
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2021 12:43:03 PM	64092
Xylenes, Total	ND	0.097		mg/Kg	1	11/23/2021 12:43:03 PM	64092
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/23/2021 12:43:03 PM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-04 2'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 11:00:00 AM

Lab ID: 2111A66-013

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/22/2021 9:08:26 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/23/2021 4:39:26 PM	64099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 4:39:26 PM	64099
Surr: DNOP	92.2	70-130		%Rec	1	11/23/2021 4:39:26 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2021 1:06:40 PM	64092
Surr: BFB	104	70-130		%Rec	1	11/23/2021 1:06:40 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 1:06:40 PM	64092
Toluene	ND	0.048		mg/Kg	1	11/23/2021 1:06:40 PM	64092
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2021 1:06:40 PM	64092
Xylenes, Total	ND	0.097		mg/Kg	1	11/23/2021 1:06:40 PM	64092
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/23/2021 1:06:40 PM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-05 2'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 11:10:00 AM

Lab ID: 2111A66-014

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/22/2021 9:20:47 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/23/2021 4:50:02 PM	64099
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 4:50:02 PM	64099
Surr: DNOP	71.5	70-130		%Rec	1	11/23/2021 4:50:02 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2021 1:30:19 PM	64092
Surr: BFB	101	70-130		%Rec	1	11/23/2021 1:30:19 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 1:30:19 PM	64092
Toluene	ND	0.047		mg/Kg	1	11/23/2021 1:30:19 PM	64092
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2021 1:30:19 PM	64092
Xylenes, Total	ND	0.095		mg/Kg	1	11/23/2021 1:30:19 PM	64092
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	11/23/2021 1:30:19 PM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-06 3'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 11:20:00 AM

Lab ID: 2111A66-015

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	490	60		mg/Kg	20	11/22/2021 9:33:07 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/24/2021 12:45:19 PM	64099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/24/2021 12:45:19 PM	64099
Surr: DNOP	84.0	70-130		%Rec	1	11/24/2021 12:45:19 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2021 1:53:54 PM	64092
Surr: BFB	101	70-130		%Rec	1	11/23/2021 1:53:54 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/23/2021 1:53:54 PM	64092
Toluene	ND	0.047		mg/Kg	1	11/23/2021 1:53:54 PM	64092
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2021 1:53:54 PM	64092
Xylenes, Total	ND	0.093		mg/Kg	1	11/23/2021 1:53:54 PM	64092
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/23/2021 1:53:54 PM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-07 3'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 11:30:00 AM

Lab ID: 2111A66-016

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	120	60		mg/Kg	20	11/22/2021 9:45:29 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/23/2021 5:32:14 PM	64099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2021 5:32:14 PM	64099
Surr: DNOP	125	70-130		%Rec	1	11/23/2021 5:32:14 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/23/2021 2:17:29 PM	64092
Surr: BFB	101	70-130		%Rec	1	11/23/2021 2:17:29 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/23/2021 2:17:29 PM	64092
Toluene	ND	0.047		mg/Kg	1	11/23/2021 2:17:29 PM	64092
Ethylbenzene	ND	0.047		mg/Kg	1	11/23/2021 2:17:29 PM	64092
Xylenes, Total	ND	0.093		mg/Kg	1	11/23/2021 2:17:29 PM	64092
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	11/23/2021 2:17:29 PM	64092

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 2111A66

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-08 3'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 11:40:00 AM

Lab ID: 2111A66-017

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/22/2021 10:22:31 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/24/2021 1:09:06 PM	64099
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/24/2021 1:09:06 PM	64099
Surr: DNOP	95.4	70-130		%Rec	1	11/24/2021 1:09:06 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/23/2021 3:28:13 PM	64092
Surr: BFB	99.2	70-130		%Rec	1	11/23/2021 3:28:13 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/23/2021 3:28:13 PM	64092
Toluene	ND	0.046		mg/Kg	1	11/23/2021 3:28:13 PM	64092
Ethylbenzene	ND	0.046		mg/Kg	1	11/23/2021 3:28:13 PM	64092
Xylenes, Total	ND	0.091		mg/Kg	1	11/23/2021 3:28:13 PM	64092
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	11/23/2021 3:28:13 PM	64092

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 2111A66

Date Reported: 11/30/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-09 3'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 11:50:00 AM

Lab ID: 2111A66-018

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	310	60		mg/Kg	20	11/22/2021 10:34:52 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/23/2021 5:53:22 PM	64099
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/23/2021 5:53:22 PM	64099
Surr: DNOP	72.1	70-130		%Rec	1	11/23/2021 5:53:22 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2021 3:51:49 PM	64092
Surr: BFB	101	70-130		%Rec	1	11/23/2021 3:51:49 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 3:51:49 PM	64092
Toluene	ND	0.048		mg/Kg	1	11/23/2021 3:51:49 PM	64092
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2021 3:51:49 PM	64092
Xylenes, Total	ND	0.097		mg/Kg	1	11/23/2021 3:51:49 PM	64092
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	11/23/2021 3:51:49 PM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-10 3'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 12:00:00 PM

Lab ID: 2111A66-019

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/22/2021 10:47:13 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/23/2021 6:03:55 PM	64099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2021 6:03:55 PM	64099
Surr: DNOP	98.4	70-130		%Rec	1	11/23/2021 6:03:55 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2021 4:15:25 PM	64092
Surr: BFB	101	70-130		%Rec	1	11/23/2021 4:15:25 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 4:15:25 PM	64092
Toluene	ND	0.048		mg/Kg	1	11/23/2021 4:15:25 PM	64092
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2021 4:15:25 PM	64092
Xylenes, Total	ND	0.096		mg/Kg	1	11/23/2021 4:15:25 PM	64092
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	11/23/2021 4:15:25 PM	64092

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 **2111A66**

Date Reported: **11/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-11 3'

Project: Warren ANW Federal 6

Collection Date: 11/18/2021 12:10:00 PM

Lab ID: 2111A66-020

Matrix: SOIL

Received Date: 11/20/2021 10:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/22/2021 10:59:34 PM	64108
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/23/2021 6:14:27 PM	64099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2021 6:14:27 PM	64099
Surr: DNOP	83.2	70-130		%Rec	1	11/23/2021 6:14:27 PM	64099
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/23/2021 4:39:00 PM	64092
Surr: BFB	101	70-130		%Rec	1	11/23/2021 4:39:00 PM	64092
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/23/2021 4:39:00 PM	64092
Toluene	ND	0.048		mg/Kg	1	11/23/2021 4:39:00 PM	64092
Ethylbenzene	ND	0.048		mg/Kg	1	11/23/2021 4:39:00 PM	64092
Xylenes, Total	ND	0.096		mg/Kg	1	11/23/2021 4:39:00 PM	64092
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/23/2021 4:39:00 PM	64092

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#: 2111A66

30-Nov-21

Client: EOG
Project: Warren ANW Federal 6

Sample ID: MB-64108	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64108	RunNo: 83024								
Prep Date: 11/22/2021	Analysis Date: 11/22/2021	SeqNo: 2949925	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64108	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64108	RunNo: 83024								
Prep Date: 11/22/2021	Analysis Date: 11/22/2021	SeqNo: 2949926	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#: 2111A66

30-Nov-21

Client: EOG
Project: Warren ANW Federal 6

Sample ID: LCS-64099	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64099	RunNo: 83061								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951759	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	119	68.9	135			
Surr: DNOP	5.0		5.000		100	70	130			

Sample ID: MB-64099	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64099	RunNo: 83061								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951764	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	7.2		10.00		71.6	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 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#: 2111A66

30-Nov-21

Client: EOG
Project: Warren ANW Federal 6

Sample ID: mb-64088	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64088	RunNo: 83079								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951060	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		97.2	70	130			

Sample ID: ics-64088	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64088	RunNo: 83079								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951062	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	100	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Sample ID: mb-64092	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64092	RunNo: 83080								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951072	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	70	130			

Sample ID: ics-64092	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64092	RunNo: 83080								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951073	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	98.2	78.6	131			
Surr: BFB	1100		1000		114	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#: 2111A66

30-Nov-21

Client: EOG
Project: Warren ANW Federal 6

Sample ID: mb-64088	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64088	RunNo: 83079								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951142	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	0.92		1.000		92.3	70	130			

Sample ID: lcs-64088	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64088	RunNo: 83079								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951148	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	80	120			
Toluene	0.91	0.050	1.000	0	91.3	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	70	130			

Sample ID: mb-64092	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64092	RunNo: 83080								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951181	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: LCS-64092	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64092	RunNo: 83080								
Prep Date: 11/22/2021	Analysis Date: 11/23/2021	SeqNo: 2951182	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	88.2	80	120			
Toluene	0.89	0.050	1.000	0	88.6	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	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: 2111A66 RcptNo: 1

Received By: Juan Rojas 11/20/2021 10:35:00 AM
Completed By: Juan Rojas 11/20/2021 10:59:06 AM
Reviewed By: [Signature] 11/20/2021

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]

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

Mailing Address: ON FILE

Phone #: _____

email or Fax#: _____

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

Accreditation: Az Compliance Other

NELAC Other

EDD (Type) _____

Turn-Around Time: 2- Day

Standard Rush

Project Name: WARRON ANW Federal #6

Project #: 21E-03278-011

Project Manager: MIKE MOFFETT

Sampler: CD

On Ice: Yes No

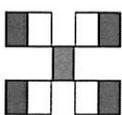
of Coolers: 2

Cooler Temp (including CF): 17-0.1-15 (°C)

Container Type and # 4 OZ ICE

Preservative Type 0.60.1-0.04

HEAL No. 211A66



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCB's	<input type="checkbox"/>
EDB (Method 504.1)	<input type="checkbox"/>
PAHs by 8310 or 8270SIMS	<input type="checkbox"/>
RCRA 8 Metals	<input checked="" type="checkbox"/>
CLF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	<input checked="" type="checkbox"/>
8260 (VOA)	<input type="checkbox"/>
8270 (Semi-VOA)	<input type="checkbox"/>
Total Coliform (Present/Absent)	<input type="checkbox"/>

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Temperature (°C)
11/18	9:00	SOIL	BES21-01 4'	4 OZ ICE		211A66	-001
	9:10		BES21-22 4'				-002
	9:20		BES21-23 6'				-003
	9:30		BES21-24 6'				-004
	9:40		BES21-25 4'				-005
	9:50		BES21-26 4'				-006
	10:00		BES21-27 4'				-007
	10:10		BES21-28 6'				-008
	10:20		BES21-29 6'				-009
	10:30		WES21-01 3'				-010
	10:40		WES21-02 2'				-011
	10:50		WES21-03 2'				-012

Remarks: CC: Chance Dixon, MIKE MOFFETT

Direct Bill

EOG RESOURCES

Received by: [Signature] Date: 11/18/10 Time: 10:15

Relinquished by: [Signature] Date: 11/20/10 Time: 01:30

Analytical Report

Lab Order **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-12 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 9:00:00 AM

Lab ID: 2111B17-001

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/23/2021 4:36:39 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/23/2021 5:15:59 PM	64126
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/23/2021 5:15:59 PM	64126
Surr: DNOP	55.7	70-130	S	%Rec	1	11/23/2021 5:15:59 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/24/2021 8:58:00 AM	64119
Surr: BFB	102	70-130		%Rec	1	11/24/2021 8:58:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 8:58:00 AM	64119
Toluene	ND	0.048		mg/Kg	1	11/24/2021 8:58:00 AM	64119
Ethylbenzene	ND	0.048		mg/Kg	1	11/24/2021 8:58:00 AM	64119
Xylenes, Total	ND	0.095		mg/Kg	1	11/24/2021 8:58:00 AM	64119
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	11/24/2021 8:58:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-13 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 9:10:00 AM

Lab ID: 2111B17-002

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	69	60		mg/Kg	20	11/23/2021 4:49:00 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/23/2021 5:40:19 PM	64126
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 5:40:19 PM	64126
Surr: DNOP	50.5	70-130	S	%Rec	1	11/23/2021 5:40:19 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/24/2021 9:17:00 AM	64119
Surr: BFB	102	70-130		%Rec	1	11/24/2021 9:17:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 9:17:00 AM	64119
Toluene	ND	0.047		mg/Kg	1	11/24/2021 9:17:00 AM	64119
Ethylbenzene	ND	0.047		mg/Kg	1	11/24/2021 9:17:00 AM	64119
Xylenes, Total	ND	0.095		mg/Kg	1	11/24/2021 9:17:00 AM	64119
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	11/24/2021 9:17:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-14 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 9:30:00 AM

Lab ID: 2111B17-003

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	390	60		mg/Kg	20	11/23/2021 5:26:02 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/23/2021 6:04:47 PM	64126
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2021 6:04:47 PM	64126
Surr: DNOP	50.6	70-130	S	%Rec	1	11/23/2021 6:04:47 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/24/2021 9:37:00 AM	64119
Surr: BFB	99.8	70-130		%Rec	1	11/24/2021 9:37:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	11/24/2021 9:37:00 AM	64119
Toluene	ND	0.050		mg/Kg	1	11/24/2021 9:37:00 AM	64119
Ethylbenzene	ND	0.050		mg/Kg	1	11/24/2021 9:37:00 AM	64119
Xylenes, Total	ND	0.099		mg/Kg	1	11/24/2021 9:37:00 AM	64119
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	11/24/2021 9:37:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-15 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 9:40:00 AM

Lab ID: 2111B17-004

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	84	60		mg/Kg	20	11/23/2021 5:38:23 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/23/2021 6:29:03 PM	64126
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 6:29:03 PM	64126
Surr: DNOP	47.8	70-130	S	%Rec	1	11/23/2021 6:29:03 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/24/2021 9:57:00 AM	64119
Surr: BFB	102	70-130		%Rec	1	11/24/2021 9:57:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 9:57:00 AM	64119
Toluene	ND	0.047		mg/Kg	1	11/24/2021 9:57:00 AM	64119
Ethylbenzene	ND	0.047		mg/Kg	1	11/24/2021 9:57:00 AM	64119
Xylenes, Total	ND	0.094		mg/Kg	1	11/24/2021 9:57:00 AM	64119
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	11/24/2021 9:57:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-16 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 9:50:00 AM

Lab ID: 2111B17-005

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	100	60		mg/Kg	20	11/23/2021 5:50:47 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/23/2021 6:53:22 PM	64126
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 6:53:22 PM	64126
Surr: DNOP	50.2	70-130	S	%Rec	1	11/23/2021 6:53:22 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/24/2021 10:16:00 AM	64119
Surr: BFB	92.4	70-130		%Rec	1	11/24/2021 10:16:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 10:16:00 AM	64119
Toluene	ND	0.049		mg/Kg	1	11/24/2021 10:16:00 AM	64119
Ethylbenzene	ND	0.049		mg/Kg	1	11/24/2021 10:16:00 AM	64119
Xylenes, Total	ND	0.098		mg/Kg	1	11/24/2021 10:16:00 AM	64119
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	11/24/2021 10:16:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-17 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 10:00:00 AM

Lab ID: 2111B17-006

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	150	60		mg/Kg	20	11/23/2021 6:03:09 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/23/2021 7:17:39 PM	64126
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 7:17:39 PM	64126
Surr: DNOP	50.4	70-130	S	%Rec	1	11/23/2021 7:17:39 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/24/2021 10:36:00 AM	64119
Surr: BFB	94.2	70-130		%Rec	1	11/24/2021 10:36:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 10:36:00 AM	64119
Toluene	ND	0.048		mg/Kg	1	11/24/2021 10:36:00 AM	64119
Ethylbenzene	ND	0.048		mg/Kg	1	11/24/2021 10:36:00 AM	64119
Xylenes, Total	ND	0.096		mg/Kg	1	11/24/2021 10:36:00 AM	64119
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	11/24/2021 10:36:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-18 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 10:10:00 AM

Lab ID: 2111B17-007

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	180	60		mg/Kg	20	11/23/2021 6:15:30 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	11/23/2021 7:42:10 PM	64126
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/23/2021 7:42:10 PM	64126
Surr: DNOP	47.9	70-130	S	%Rec	1	11/23/2021 7:42:10 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/24/2021 10:56:00 AM	64119
Surr: BFB	95.1	70-130		%Rec	1	11/24/2021 10:56:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 10:56:00 AM	64119
Toluene	ND	0.049		mg/Kg	1	11/24/2021 10:56:00 AM	64119
Ethylbenzene	ND	0.049		mg/Kg	1	11/24/2021 10:56:00 AM	64119
Xylenes, Total	ND	0.098		mg/Kg	1	11/24/2021 10:56:00 AM	64119
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	11/24/2021 10:56:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-19 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 10:20:00 AM

Lab ID: 2111B17-008

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	200	60		mg/Kg	20	11/23/2021 6:27:51 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/23/2021 8:06:25 PM	64126
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 8:06:25 PM	64126
Surr: DNOP	46.6	70-130	S	%Rec	1	11/23/2021 8:06:25 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/24/2021 11:15:00 AM	64119
Surr: BFB	101	70-130		%Rec	1	11/24/2021 11:15:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 11:15:00 AM	64119
Toluene	ND	0.049		mg/Kg	1	11/24/2021 11:15:00 AM	64119
Ethylbenzene	ND	0.049		mg/Kg	1	11/24/2021 11:15:00 AM	64119
Xylenes, Total	ND	0.098		mg/Kg	1	11/24/2021 11:15:00 AM	64119
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	11/24/2021 11:15:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-20 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 10:30:00 AM

Lab ID: 2111B17-009

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/23/2021 6:40:11 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/23/2021 8:30:43 PM	64126
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 8:30:43 PM	64126
Surr: DNOP	47.2	70-130	S	%Rec	1	11/23/2021 8:30:43 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/24/2021 11:35:00 AM	64119
Surr: BFB	93.3	70-130		%Rec	1	11/24/2021 11:35:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/24/2021 11:35:00 AM	64119
Toluene	ND	0.046		mg/Kg	1	11/24/2021 11:35:00 AM	64119
Ethylbenzene	ND	0.046		mg/Kg	1	11/24/2021 11:35:00 AM	64119
Xylenes, Total	ND	0.092		mg/Kg	1	11/24/2021 11:35:00 AM	64119
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	11/24/2021 11:35:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-21 3'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 10:40:00 AM

Lab ID: 2111B17-010

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/23/2021 6:52:32 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/23/2021 8:54:56 PM	64126
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/23/2021 8:54:56 PM	64126
Surr: DNOP	42.3	70-130	S	%Rec	1	11/23/2021 8:54:56 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/24/2021 11:54:00 AM	64119
Surr: BFB	98.5	70-130		%Rec	1	11/24/2021 11:54:00 AM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 11:54:00 AM	64119
Toluene	ND	0.047		mg/Kg	1	11/24/2021 11:54:00 AM	64119
Ethylbenzene	ND	0.047		mg/Kg	1	11/24/2021 11:54:00 AM	64119
Xylenes, Total	ND	0.095		mg/Kg	1	11/24/2021 11:54:00 AM	64119
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	11/24/2021 11:54:00 AM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-22 2'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 10:50:00 AM

Lab ID: 2111B17-011

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/23/2021 7:04:55 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/23/2021 9:43:29 PM	64126
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 9:43:29 PM	64126
Surr: DNOP	44.9	70-130	S	%Rec	1	11/23/2021 9:43:29 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/24/2021 12:34:00 PM	64119
Surr: BFB	97.1	70-130		%Rec	1	11/24/2021 12:34:00 PM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	11/24/2021 12:34:00 PM	64119
Toluene	ND	0.050		mg/Kg	1	11/24/2021 12:34:00 PM	64119
Ethylbenzene	ND	0.050		mg/Kg	1	11/24/2021 12:34:00 PM	64119
Xylenes, Total	ND	0.10		mg/Kg	1	11/24/2021 12:34:00 PM	64119
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	11/24/2021 12:34:00 PM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-23 2'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 11:00:00 AM

Lab ID: 2111B17-012

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/23/2021 7:17:15 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/23/2021 10:07:53 PM	64126
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 10:07:53 PM	64126
Surr: DNOP	42.9	70-130	S	%Rec	1	11/23/2021 10:07:53 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/24/2021 12:53:00 PM	64119
Surr: BFB	95.6	70-130		%Rec	1	11/24/2021 12:53:00 PM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/24/2021 12:53:00 PM	64119
Toluene	ND	0.046		mg/Kg	1	11/24/2021 12:53:00 PM	64119
Ethylbenzene	ND	0.046		mg/Kg	1	11/24/2021 12:53:00 PM	64119
Xylenes, Total	ND	0.093		mg/Kg	1	11/24/2021 12:53:00 PM	64119
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	11/24/2021 12:53:00 PM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-24 2'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 11:10:00 AM

Lab ID: 2111B17-013

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/23/2021 7:54:18 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/23/2021 10:31:59 PM	64126
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/23/2021 10:31:59 PM	64126
Surr: DNOP	44.9	70-130	S	%Rec	1	11/23/2021 10:31:59 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/24/2021 1:13:00 PM	64119
Surr: BFB	99.6	70-130		%Rec	1	11/24/2021 1:13:00 PM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 1:13:00 PM	64119
Toluene	ND	0.048		mg/Kg	1	11/24/2021 1:13:00 PM	64119
Ethylbenzene	ND	0.048		mg/Kg	1	11/24/2021 1:13:00 PM	64119
Xylenes, Total	ND	0.097		mg/Kg	1	11/24/2021 1:13:00 PM	64119
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	11/24/2021 1:13:00 PM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-25 2'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 11:20:00 AM

Lab ID: 2111B17-014

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/23/2021 8:06:39 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/23/2021 10:56:12 PM	64126
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 10:56:12 PM	64126
Surr: DNOP	34.2	70-130	S	%Rec	1	11/23/2021 10:56:12 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/24/2021 1:33:00 PM	64119
Surr: BFB	90.1	70-130		%Rec	1	11/24/2021 1:33:00 PM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 1:33:00 PM	64119
Toluene	ND	0.047		mg/Kg	1	11/24/2021 1:33:00 PM	64119
Ethylbenzene	ND	0.047		mg/Kg	1	11/24/2021 1:33:00 PM	64119
Xylenes, Total	ND	0.095		mg/Kg	1	11/24/2021 1:33:00 PM	64119
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	11/24/2021 1:33:00 PM	64119

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 **2111B17**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-26 2'

Project: Warren ANW Federal 6

Collection Date: 11/19/2021 11:30:00 AM

Lab ID: 2111B17-015

Matrix: SOIL

Received Date: 11/23/2021 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/23/2021 8:19:00 PM	64134
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/23/2021 11:20:19 PM	64126
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/23/2021 11:20:19 PM	64126
Surr: DNOP	35.4	70-130	S	%Rec	1	11/23/2021 11:20:19 PM	64126
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/24/2021 1:52:00 PM	64119
Surr: BFB	93.7	70-130		%Rec	1	11/24/2021 1:52:00 PM	64119
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/24/2021 1:52:00 PM	64119
Toluene	ND	0.049		mg/Kg	1	11/24/2021 1:52:00 PM	64119
Ethylbenzene	ND	0.049		mg/Kg	1	11/24/2021 1:52:00 PM	64119
Xylenes, Total	ND	0.098		mg/Kg	1	11/24/2021 1:52:00 PM	64119
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	11/24/2021 1:52:00 PM	64119

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	



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

December 03, 2021

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Warren ANW Federal 6

OrderNo.: 2111B99

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 23 sample(s) on 11/24/2021 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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-27 2'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 10:30:00 AM

Lab ID: 2111B99-001

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 9:51:11 PM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/29/2021 9:01:19 AM	64163
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/29/2021 9:01:19 AM	64163
Surr: DNOP	86.0	70-130		%Rec	1	11/29/2021 9:01:19 AM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/26/2021 6:39:05 PM	64152
Surr: BFB	100	70-130		%Rec	1	11/26/2021 6:39:05 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/26/2021 6:39:05 PM	64152
Toluene	ND	0.049		mg/Kg	1	11/26/2021 6:39:05 PM	64152
Ethylbenzene	ND	0.049		mg/Kg	1	11/26/2021 6:39:05 PM	64152
Xylenes, Total	ND	0.099		mg/Kg	1	11/26/2021 6:39:05 PM	64152
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	11/26/2021 6:39:05 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-28 2'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 10:40:00 AM

Lab ID: 2111B99-002

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 10:03:35 PM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/29/2021 9:12:54 AM	64163
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/29/2021 9:12:54 AM	64163
Surr: DNOP	78.3	70-130		%Rec	1	11/29/2021 9:12:54 AM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/26/2021 7:02:29 PM	64152
Surr: BFB	100	70-130		%Rec	1	11/26/2021 7:02:29 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/26/2021 7:02:29 PM	64152
Toluene	ND	0.046		mg/Kg	1	11/26/2021 7:02:29 PM	64152
Ethylbenzene	ND	0.046		mg/Kg	1	11/26/2021 7:02:29 PM	64152
Xylenes, Total	ND	0.092		mg/Kg	1	11/26/2021 7:02:29 PM	64152
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	11/26/2021 7:02:29 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-29 2'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 10:50:00 AM

Lab ID: 2111B99-003

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 10:40:49 PM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	11/29/2021 9:24:57 AM	64163
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/29/2021 9:24:57 AM	64163
Surr: DNOP	77.0	70-130		%Rec	1	11/29/2021 9:24:57 AM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/26/2021 7:25:52 PM	64152
Surr: BFB	100	70-130		%Rec	1	11/26/2021 7:25:52 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/26/2021 7:25:52 PM	64152
Toluene	ND	0.048		mg/Kg	1	11/26/2021 7:25:52 PM	64152
Ethylbenzene	ND	0.048		mg/Kg	1	11/26/2021 7:25:52 PM	64152
Xylenes, Total	ND	0.096		mg/Kg	1	11/26/2021 7:25:52 PM	64152
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	11/26/2021 7:25:52 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-30 2'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 11:00:00 AM

Lab ID: 2111B99-004

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 10:53:13 PM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/29/2021 9:36:35 AM	64163
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/29/2021 9:36:35 AM	64163
Surr: DNOP	73.3	70-130		%Rec	1	11/29/2021 9:36:35 AM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/26/2021 7:49:12 PM	64152
Surr: BFB	100	70-130		%Rec	1	11/26/2021 7:49:12 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/26/2021 7:49:12 PM	64152
Toluene	ND	0.049		mg/Kg	1	11/26/2021 7:49:12 PM	64152
Ethylbenzene	ND	0.049		mg/Kg	1	11/26/2021 7:49:12 PM	64152
Xylenes, Total	ND	0.098		mg/Kg	1	11/26/2021 7:49:12 PM	64152
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	11/26/2021 7:49:12 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-31 2'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 11:10:00 AM

Lab ID: 2111B99-005

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 11:05:38 PM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/29/2021 9:48:16 AM	64163
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2021 9:48:16 AM	64163
Surr: DNOP	71.0	70-130		%Rec	1	11/29/2021 9:48:16 AM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/26/2021 8:12:31 PM	64152
Surr: BFB	97.8	70-130		%Rec	1	11/26/2021 8:12:31 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/26/2021 8:12:31 PM	64152
Toluene	ND	0.047		mg/Kg	1	11/26/2021 8:12:31 PM	64152
Ethylbenzene	ND	0.047		mg/Kg	1	11/26/2021 8:12:31 PM	64152
Xylenes, Total	ND	0.094		mg/Kg	1	11/26/2021 8:12:31 PM	64152
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/26/2021 8:12:31 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-32 2'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 11:20:00 AM

Lab ID: 2111B99-006

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 11:18:02 PM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/29/2021 2:17:42 PM	64163
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/29/2021 2:17:42 PM	64163
Surr: DNOP	97.1	70-130		%Rec	1	11/29/2021 2:17:42 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/26/2021 8:35:52 PM	64152
Surr: BFB	99.1	70-130		%Rec	1	11/26/2021 8:35:52 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/26/2021 8:35:52 PM	64152
Toluene	ND	0.050		mg/Kg	1	11/26/2021 8:35:52 PM	64152
Ethylbenzene	ND	0.050		mg/Kg	1	11/26/2021 8:35:52 PM	64152
Xylenes, Total	ND	0.10		mg/Kg	1	11/26/2021 8:35:52 PM	64152
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	11/26/2021 8:35:52 PM	64152

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 2111B99

Date Reported: 12/3/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-33 2'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 11:30:00 AM

Lab ID: 2111B99-007

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 11:30:27 PM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/29/2021 2:41:47 PM	64163
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/29/2021 2:41:47 PM	64163
Surr: DNOP	97.6	70-130		%Rec	1	11/29/2021 2:41:47 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/26/2021 8:59:07 PM	64152
Surr: BFB	98.8	70-130		%Rec	1	11/26/2021 8:59:07 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/26/2021 8:59:07 PM	64152
Toluene	ND	0.049		mg/Kg	1	11/26/2021 8:59:07 PM	64152
Ethylbenzene	ND	0.049		mg/Kg	1	11/26/2021 8:59:07 PM	64152
Xylenes, Total	ND	0.097		mg/Kg	1	11/26/2021 8:59:07 PM	64152
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	11/26/2021 8:59:07 PM	64152

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		

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Analytical Report

Lab Order **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES21-34 3'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 11:40:00 AM

Lab ID: 2111B99-008

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 11:42:51 PM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/29/2021 3:05:54 PM	64163
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/29/2021 3:05:54 PM	64163
Surr: DNOP	101	70-130		%Rec	1	11/29/2021 3:05:54 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/26/2021 10:08:50 PM	64152
Surr: BFB	97.3	70-130		%Rec	1	11/26/2021 10:08:50 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/26/2021 10:08:50 PM	64152
Toluene	ND	0.046		mg/Kg	1	11/26/2021 10:08:50 PM	64152
Ethylbenzene	ND	0.046		mg/Kg	1	11/26/2021 10:08:50 PM	64152
Xylenes, Total	ND	0.092		mg/Kg	1	11/26/2021 10:08:50 PM	64152
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	11/26/2021 10:08:50 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-30 4'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 11:50:00 AM

Lab ID: 2111B99-009

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 11:55:16 PM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/29/2021 9:18:11 AM	64163
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/29/2021 9:18:11 AM	64163
Surr: DNOP	70.8	70-130		%Rec	1	11/29/2021 9:18:11 AM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/26/2021 10:32:04 PM	64152
Surr: BFB	98.5	70-130		%Rec	1	11/26/2021 10:32:04 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/26/2021 10:32:04 PM	64152
Toluene	ND	0.049		mg/Kg	1	11/26/2021 10:32:04 PM	64152
Ethylbenzene	ND	0.049		mg/Kg	1	11/26/2021 10:32:04 PM	64152
Xylenes, Total	ND	0.098		mg/Kg	1	11/26/2021 10:32:04 PM	64152
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	11/26/2021 10:32:04 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-31 4'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 12:00:00 PM

Lab ID: 2111B99-010

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/25/2021 12:07:41 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/29/2021 9:28:36 AM	64163
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/29/2021 9:28:36 AM	64163
Surr: DNOP	70.6	70-130		%Rec	1	11/29/2021 9:28:36 AM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/26/2021 10:55:15 PM	64152
Surr: BFB	96.4	70-130		%Rec	1	11/26/2021 10:55:15 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/26/2021 10:55:15 PM	64152
Toluene	ND	0.047		mg/Kg	1	11/26/2021 10:55:15 PM	64152
Ethylbenzene	ND	0.047		mg/Kg	1	11/26/2021 10:55:15 PM	64152
Xylenes, Total	ND	0.095		mg/Kg	1	11/26/2021 10:55:15 PM	64152
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	11/26/2021 10:55:15 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-32 6'

Project: Warren ANW Federal 6

Collection Date: 11/22/2021 12:10:00 PM

Lab ID: 2111B99-011

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/25/2021 12:20:06 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/29/2021 4:18:28 PM	64163
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/29/2021 4:18:28 PM	64163
Surr: DNOP	97.3	70-130		%Rec	1	11/29/2021 4:18:28 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/26/2021 11:18:24 PM	64152
Surr: BFB	99.0	70-130		%Rec	1	11/26/2021 11:18:24 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/26/2021 11:18:24 PM	64152
Toluene	ND	0.047		mg/Kg	1	11/26/2021 11:18:24 PM	64152
Ethylbenzene	ND	0.047		mg/Kg	1	11/26/2021 11:18:24 PM	64152
Xylenes, Total	ND	0.095		mg/Kg	1	11/26/2021 11:18:24 PM	64152
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	11/26/2021 11:18:24 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-33 4'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 8:00:00 AM

Lab ID: 2111B99-012

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/25/2021 12:32:31 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/29/2021 4:42:36 PM	64163
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2021 4:42:36 PM	64163
Surr: DNOP	99.0	70-130		%Rec	1	11/29/2021 4:42:36 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/26/2021 11:41:33 PM	64152
Surr: BFB	96.8	70-130		%Rec	1	11/26/2021 11:41:33 PM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/26/2021 11:41:33 PM	64152
Toluene	ND	0.048		mg/Kg	1	11/26/2021 11:41:33 PM	64152
Ethylbenzene	ND	0.048		mg/Kg	1	11/26/2021 11:41:33 PM	64152
Xylenes, Total	ND	0.095		mg/Kg	1	11/26/2021 11:41:33 PM	64152
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	11/26/2021 11:41:33 PM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-34 4'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 8:10:00 AM

Lab ID: 2111B99-013

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	11/25/2021 1:09:45 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/29/2021 5:06:39 PM	64163
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2021 5:06:39 PM	64163
Surr: DNOP	99.7	70-130		%Rec	1	11/29/2021 5:06:39 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/27/2021 12:04:37 AM	64152
Surr: BFB	97.7	70-130		%Rec	1	11/27/2021 12:04:37 AM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/27/2021 12:04:37 AM	64152
Toluene	ND	0.048		mg/Kg	1	11/27/2021 12:04:37 AM	64152
Ethylbenzene	ND	0.048		mg/Kg	1	11/27/2021 12:04:37 AM	64152
Xylenes, Total	ND	0.096		mg/Kg	1	11/27/2021 12:04:37 AM	64152
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/27/2021 12:04:37 AM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-35 4'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 8:20:00 AM

Lab ID: 2111B99-014

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/25/2021 1:22:09 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/29/2021 5:30:37 PM	64163
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2021 5:30:37 PM	64163
Surr: DNOP	100	70-130		%Rec	1	11/29/2021 5:30:37 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/27/2021 12:27:44 AM	64152
Surr: BFB	96.1	70-130		%Rec	1	11/27/2021 12:27:44 AM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/27/2021 12:27:44 AM	64152
Toluene	ND	0.047		mg/Kg	1	11/27/2021 12:27:44 AM	64152
Ethylbenzene	ND	0.047		mg/Kg	1	11/27/2021 12:27:44 AM	64152
Xylenes, Total	ND	0.095		mg/Kg	1	11/27/2021 12:27:44 AM	64152
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	11/27/2021 12:27:44 AM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-36 4'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 8:30:00 AM

Lab ID: 2111B99-015

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/25/2021 1:34:34 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/29/2021 5:54:35 PM	64163
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2021 5:54:35 PM	64163
Surr: DNOP	106	70-130		%Rec	1	11/29/2021 5:54:35 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/27/2021 12:50:51 AM	64152
Surr: BFB	97.0	70-130		%Rec	1	11/27/2021 12:50:51 AM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/27/2021 12:50:51 AM	64152
Toluene	ND	0.047		mg/Kg	1	11/27/2021 12:50:51 AM	64152
Ethylbenzene	ND	0.047		mg/Kg	1	11/27/2021 12:50:51 AM	64152
Xylenes, Total	ND	0.093		mg/Kg	1	11/27/2021 12:50:51 AM	64152
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	11/27/2021 12:50:51 AM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-37 6'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 8:40:00 AM

Lab ID: 2111B99-016

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/25/2021 1:46:59 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/29/2021 6:18:28 PM	64163
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/29/2021 6:18:28 PM	64163
Surr: DNOP	99.9	70-130		%Rec	1	11/29/2021 6:18:28 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/27/2021 1:13:58 AM	64152
Surr: BFB	95.8	70-130		%Rec	1	11/27/2021 1:13:58 AM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/27/2021 1:13:58 AM	64152
Toluene	ND	0.050		mg/Kg	1	11/27/2021 1:13:58 AM	64152
Ethylbenzene	ND	0.050		mg/Kg	1	11/27/2021 1:13:58 AM	64152
Xylenes, Total	ND	0.099		mg/Kg	1	11/27/2021 1:13:58 AM	64152
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	11/27/2021 1:13:58 AM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-38 6'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 8:50:00 AM

Lab ID: 2111B99-017

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	61		mg/Kg	20	11/25/2021 1:59:24 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/29/2021 10:41:39 AM	64163
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/29/2021 10:41:39 AM	64163
Surr: DNOP	74.1	70-130		%Rec	1	11/29/2021 10:41:39 AM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/27/2021 1:37:00 AM	64152
Surr: BFB	95.9	70-130		%Rec	1	11/27/2021 1:37:00 AM	64152
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/27/2021 1:37:00 AM	64152
Toluene	ND	0.048		mg/Kg	1	11/27/2021 1:37:00 AM	64152
Ethylbenzene	ND	0.048		mg/Kg	1	11/27/2021 1:37:00 AM	64152
Xylenes, Total	ND	0.095		mg/Kg	1	11/27/2021 1:37:00 AM	64152
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	11/27/2021 1:37:00 AM	64152

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-39 6'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 9:00:00 AM

Lab ID: 2111B99-018

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/25/2021 2:11:49 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/29/2021 7:06:02 PM	64163
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/29/2021 7:06:02 PM	64163
Surr: DNOP	104	70-130		%Rec	1	11/29/2021 7:06:02 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/29/2021 8:59:00 AM	64153
Surr: BFB	99.5	70-130		%Rec	1	11/29/2021 8:59:00 AM	64153
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/29/2021 8:59:00 AM	64153
Toluene	ND	0.047		mg/Kg	1	11/29/2021 8:59:00 AM	64153
Ethylbenzene	ND	0.047		mg/Kg	1	11/29/2021 8:59:00 AM	64153
Xylenes, Total	ND	0.095		mg/Kg	1	11/29/2021 8:59:00 AM	64153
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	11/29/2021 8:59:00 AM	64153

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-40 6'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 9:10:00 AM

Lab ID: 2111B99-019

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	11/25/2021 2:24:13 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/29/2021 7:29:43 PM	64163
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/29/2021 7:29:43 PM	64163
Surr: DNOP	102	70-130		%Rec	1	11/29/2021 7:29:43 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/29/2021 9:18:00 AM	64153
Surr: BFB	93.1	70-130		%Rec	1	11/29/2021 9:18:00 AM	64153
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	11/29/2021 9:18:00 AM	64153
Toluene	ND	0.050		mg/Kg	1	11/29/2021 9:18:00 AM	64153
Ethylbenzene	ND	0.050		mg/Kg	1	11/29/2021 9:18:00 AM	64153
Xylenes, Total	ND	0.10		mg/Kg	1	11/29/2021 9:18:00 AM	64153
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	11/29/2021 9:18:00 AM	64153

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-08 6'

Project: Warren ANW Federal 6

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

Lab ID: 2111B99-020

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/25/2021 3:01:28 AM	64167
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/29/2021 7:53:23 PM	64163
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/29/2021 7:53:23 PM	64163
Surr: DNOP	104	70-130		%Rec	1	11/29/2021 7:53:23 PM	64163
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/29/2021 9:38:00 AM	64153
Surr: BFB	102	70-130		%Rec	1	11/29/2021 9:38:00 AM	64153
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/29/2021 9:38:00 AM	64153
Toluene	ND	0.047		mg/Kg	1	11/29/2021 9:38:00 AM	64153
Ethylbenzene	ND	0.047		mg/Kg	1	11/29/2021 9:38:00 AM	64153
Xylenes, Total	ND	0.094		mg/Kg	1	11/29/2021 9:38:00 AM	64153
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	11/29/2021 9:38:00 AM	64153

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-09 6'

Project: Warren ANW Federal 6

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

Lab ID: 2111B99-021

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/24/2021 7:10:26 PM	64170
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/29/2021 8:17:02 PM	64165
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/29/2021 8:17:02 PM	64165
Surr: DNOP	105	70-130		%Rec	1	11/29/2021 8:17:02 PM	64165
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/29/2021 9:58:00 AM	64153
Surr: BFB	98.0	70-130		%Rec	1	11/29/2021 9:58:00 AM	64153
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/29/2021 9:58:00 AM	64153
Toluene	ND	0.047		mg/Kg	1	11/29/2021 9:58:00 AM	64153
Ethylbenzene	ND	0.047		mg/Kg	1	11/29/2021 9:58:00 AM	64153
Xylenes, Total	ND	0.093		mg/Kg	1	11/29/2021 9:58:00 AM	64153
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	11/29/2021 9:58:00 AM	64153

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-16 6'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 11:20:00 AM

Lab ID: 2111B99-022

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	150	60		mg/Kg	20	11/24/2021 7:47:30 PM	64170
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/29/2021 8:40:40 PM	64165
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/29/2021 8:40:40 PM	64165
Surr: DNOP	106	70-130		%Rec	1	11/29/2021 8:40:40 PM	64165
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/29/2021 10:17:00 AM	64153
Surr: BFB	95.5	70-130		%Rec	1	11/29/2021 10:17:00 AM	64153
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	11/29/2021 10:17:00 AM	64153
Toluene	ND	0.047		mg/Kg	1	11/29/2021 10:17:00 AM	64153
Ethylbenzene	ND	0.047		mg/Kg	1	11/29/2021 10:17:00 AM	64153
Xylenes, Total	ND	0.094		mg/Kg	1	11/29/2021 10:17:00 AM	64153
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	11/29/2021 10:17:00 AM	64153

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 **2111B99**

Date Reported: **12/3/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES21-17 6'

Project: Warren ANW Federal 6

Collection Date: 11/23/2021 11:30:00 AM

Lab ID: 2111B99-023

Matrix: SOIL

Received Date: 11/24/2021 7:43:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	150	60		mg/Kg	20	11/24/2021 7:59:52 PM	64170
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/29/2021 9:04:12 PM	64165
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/29/2021 9:04:12 PM	64165
Surr: DNOP	102	70-130		%Rec	1	11/29/2021 9:04:12 PM	64165
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/29/2021 10:37:00 AM	64153
Surr: BFB	98.0	70-130		%Rec	1	11/29/2021 10:37:00 AM	64153
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/29/2021 10:37:00 AM	64153
Toluene	ND	0.049		mg/Kg	1	11/29/2021 10:37:00 AM	64153
Ethylbenzene	ND	0.049		mg/Kg	1	11/29/2021 10:37:00 AM	64153
Xylenes, Total	ND	0.097		mg/Kg	1	11/29/2021 10:37:00 AM	64153
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	11/29/2021 10:37:00 AM	64153

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#: 2111B99

03-Dec-21

Client: EOG
Project: Warren ANW Federal 6

Sample ID: MB-64170	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64170	RunNo: 83124								
Prep Date: 11/24/2021	Analysis Date: 11/24/2021	SeqNo: 2953041	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64170	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64170	RunNo: 83124								
Prep Date: 11/24/2021	Analysis Date: 11/24/2021	SeqNo: 2953042	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Sample ID: MB-64167	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64167	RunNo: 83132								
Prep Date: 11/24/2021	Analysis Date: 11/24/2021	SeqNo: 2953305	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64167	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64167	RunNo: 83132								
Prep Date: 11/24/2021	Analysis Date: 11/24/2021	SeqNo: 2953306	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.5	90	110			

Qualifiers:

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

WO#: 2111B99

Hall Environmental Analysis Laboratory, Inc.

03-Dec-21

Client: EOG
Project: Warren ANW Federal 6

Sample ID: MB-64163	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64163	RunNo: 83128								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953454	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	9.3		10.00		92.8	70	130			

Sample ID: LCS-64163	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64163	RunNo: 83128								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953456	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	95.9	68.9	135			
Surr: DNOP	4.6		5.000		91.1	70	130			

Sample ID: MB-64165	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64165	RunNo: 83128								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953508	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-64165	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64165	RunNo: 83128								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953509	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.1	68.9	135			
Surr: DNOP	4.6		5.000		92.1	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#: 2111B99

03-Dec-21

Client: EOG
Project: Warren ANW Federal 6

Sample ID: mb-64152	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 64152		RunNo: 83120							
Prep Date: 11/24/2021	Analysis Date: 11/26/2021		SeqNo: 2952588		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	980		1000		98.4	70	130			

Sample ID: lcs-64152	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 64152		RunNo: 83120							
Prep Date: 11/24/2021	Analysis Date: 11/26/2021		SeqNo: 2952589		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.8	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Sample ID: mb-64153	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 64153		RunNo: 83126							
Prep Date: 11/24/2021	Analysis Date: 11/29/2021		SeqNo: 2953109		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.3	70	130			

Sample ID: lcs-64153	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 64153		RunNo: 83126							
Prep Date: 11/24/2021	Analysis Date: 11/29/2021		SeqNo: 2953110		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.6	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 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#: 2111B99

03-Dec-21

Client: EOG
Project: Warren ANW Federal 6

Sample ID: mb-64152	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64152	RunNo: 83120								
Prep Date: 11/24/2021	Analysis Date: 11/26/2021	SeqNo: 2952615	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	0.98		1.000		98.3	70	130			

Sample ID: LCS-64152	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64152	RunNo: 83120								
Prep Date: 11/24/2021	Analysis Date: 11/26/2021	SeqNo: 2952616	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	87.6	80	120			
Toluene	0.87	0.050	1.000	0	87.3	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-64153	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64153	RunNo: 83126								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953112	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	0.92		1.000		91.6	70	130			

Sample ID: lcs-64153	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64153	RunNo: 83126								
Prep Date: 11/24/2021	Analysis Date: 11/29/2021	SeqNo: 2953113	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.8	80	120			
Toluene	0.84	0.050	1.000	0	84.5	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.1	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.7	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	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



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: 2111B99

RcptNo: 1

Received By: Cheyenne Cason 11/24/2021 7:43:00 AM

Handwritten signature

Completed By: Desiree Dominguez 11/24/2021 8:09:57 AM

Handwritten signature

Reviewed By: jn 11/24/21

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: cwc 11/24/21

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

Mailing Address: ON File

Phone #: _____

email or Fax#: _____

QA/QC Package: _____

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other _____

EDD (Type) _____

Turn-Around Time: 1-2 Day

Standard Rush

Project Name: HARRON ANN FEDERAL #6

Project #: 21E-03278-011

Project Manager: Michael Mosefite

Sampler: Chance Dixon

On Ice: Yes No

of Coolers: 2 $3.1 \times 2 = 3.1$

Cooler Temp (including CF): 1.9-0 = 4.9 (°C)

Container Type and # 40Z Preservative Type ICE HEAL No. 211B99

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/22	10:30	SOI1	WES21-27 2'	40Z	ICE	-001
	10:40		WES21-28 2'			-002
	10:50		WES21-29 2'			-003
	11:00		WES21-30 2'			-004
	11:10		WES21-31 2'			-005
	11:20		WES21-32 2'			-006
	11:30		WES21-33 2'			-007
	11:40		WES21-34 3'			-008
	11:56		WES21-30 4'			-009
	12:00		WES21-31 4'			-010
	12:10		WES21-32 6'			-011
	12:58:00		WES21-33 4'			-012

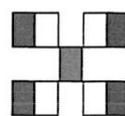
Received by: Michael Mosefite Date: 11/23/11 134D

Received by: one coin 11/24/11 0743 Date: _____

Relinquished by: Michael Mosefite

Relinquished by: _____

Remarks: CC: Chance Dixon, Michael Mosefite
Direct Bill EOG Resources



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)

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.

Chain-of-Custody Record

Client: EOG

Mailing Address: Oh File

Phone #: _____

email or Fax#: _____

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

Accreditation: Az Compliance NELAC Other _____

EDD (Type) _____

Turn-Around Time: 1-2 day

Standard Rush

Project Name: Warren Ann Federal #6

Project #: 21E-03278-011

Project Manager: Michael Moffitt

Sampler: Chance Dixon

On Ice: Yes No

of Coolers: 2

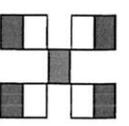
Cooler Temp (including CF): See 1st page (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1/23	8:10	SOI-1	RES21-34 4'	4 OZ	ICE	-013
	8:20		RES21-35 4'			-014
	8:30		RES21-36 4'			-015
	8:40		RES21-37 6'			-016
	8:50		RES21-38 6'			-017
	9:00		RES21-39 6'			-018
	9:10		RES21-40 6'			-019
	11:00		RES21-08 6'			-020
	11:10		RES21-09 6'			-021
	11:20		RES21-10 6'			-022
	11:30		RES21-17 6'			-023

<input checked="" type="checkbox"/>	BTEX / MTBE / TMB's (8021)
<input checked="" type="checkbox"/>	TPH:8015D(GRO / DRO / MRO)
<input checked="" type="checkbox"/>	8081 Pesticides/8082 PCB's
<input checked="" type="checkbox"/>	EDB (Method 504.1)
<input checked="" type="checkbox"/>	PAHs by 8310 or 8270SIMS
<input checked="" type="checkbox"/>	RCRA 8 Metals
<input checked="" type="checkbox"/>	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄
<input checked="" type="checkbox"/>	8260 (VOA)
<input checked="" type="checkbox"/>	8270 (Semi-VOA)
<input checked="" type="checkbox"/>	Total Coliform (Present/Absent)

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/23	8:10		Chance Dixon		1/23	1350
	8:20		Michael Moffitt		1/24	0743

Remarks: CC: Chance Dixon, Michael Moffitt
Direct Bill EOG Resources



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

January 21, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Warren ANW Federal 6

OrderNo.: 2201647

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2201647**

Date Reported: **1/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-35 3'

Project: Warren ANW Federal 6

Collection Date: 1/14/2022 9:00:00 AM

Lab ID: 2201647-001

Matrix: MEOH (SOIL) **Received Date:** 1/18/2022 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/18/2022 5:44:04 PM	65084
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/18/2022 10:16:59 PM	65069
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/18/2022 10:16:59 PM	65069
Surr: DNOP	91.8	70-130		%Rec	1	1/18/2022 10:16:59 PM	65069
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	1/18/2022 9:45:00 AM	65036
Surr: BFB	85.5	70-130		%Rec	1	1/18/2022 9:45:00 AM	65036
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.018		mg/Kg	1	1/18/2022 9:45:00 AM	65036
Toluene	ND	0.036		mg/Kg	1	1/18/2022 9:45:00 AM	65036
Ethylbenzene	ND	0.036		mg/Kg	1	1/18/2022 9:45:00 AM	65036
Xylenes, Total	ND	0.072		mg/Kg	1	1/18/2022 9:45:00 AM	65036
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	1/18/2022 9:45:00 AM	65036

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

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

Analytical Report

Lab Order **2201647**

Date Reported: **1/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-36 3'

Project: Warren ANW Federal 6

Collection Date: 1/14/2022 9:10:00 AM

Lab ID: 2201647-002

Matrix: MEOH (SOIL) **Received Date:** 1/18/2022 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/18/2022 6:46:05 PM	65084
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	9.7	9.5		mg/Kg	1	1/18/2022 10:40:47 PM	65069
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2022 10:40:47 PM	65069
Surr: DNOP	96.6	70-130		%Rec	1	1/18/2022 10:40:47 PM	65069
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	1/18/2022 10:04:00 AM	65036
Surr: BFB	83.8	70-130		%Rec	1	1/18/2022 10:04:00 AM	65036
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.018		mg/Kg	1	1/18/2022 10:04:00 AM	65036
Toluene	ND	0.037		mg/Kg	1	1/18/2022 10:04:00 AM	65036
Ethylbenzene	ND	0.037		mg/Kg	1	1/18/2022 10:04:00 AM	65036
Xylenes, Total	ND	0.074		mg/Kg	1	1/18/2022 10:04:00 AM	65036
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	1/18/2022 10:04:00 AM	65036

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2201647

21-Jan-22

Client: EOG
Project: Warren ANW Federal 6

Sample ID: MB-65084	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 65084	RunNo: 85246								
Prep Date: 1/18/2022	Analysis Date: 1/18/2022	SeqNo: 2999044	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-65084	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 65084	RunNo: 85246								
Prep Date: 1/18/2022	Analysis Date: 1/18/2022	SeqNo: 2999045	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2201647

21-Jan-22

Client: EOG
Project: Warren ANW Federal 6

Sample ID: MB-65069	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 65069	RunNo: 85250								
Prep Date: 1/18/2022	Analysis Date: 1/18/2022	SeqNo: 2999132	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		95.5	70	130			

Sample ID: LCS-65069	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65069	RunNo: 85250								
Prep Date: 1/18/2022	Analysis Date: 1/18/2022	SeqNo: 2999135	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.2	68.9	135			
Surr: DNOP	4.3		5.000		86.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2201647

21-Jan-22

Client: EOG
Project: Warren ANW Federal 6

Sample ID: mb-65036	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 65036	RunNo: 85219								
Prep Date: 1/14/2022	Analysis Date: 1/18/2022	SeqNo: 2998211	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		89.0	70	130			

Sample ID: ics-65036	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 65036	RunNo: 85219								
Prep Date: 1/14/2022	Analysis Date: 1/18/2022	SeqNo: 2998212	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.7	78.6	131			
Surr: BFB	1000		1000		100	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2201647

21-Jan-22

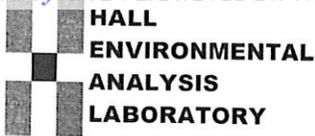
Client: EOG
Project: Warren ANW Federal 6

Sample ID: mb-65036	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 65036	RunNo: 85219								
Prep Date: 1/14/2022	Analysis Date: 1/18/2022	SeqNo: 2998215	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	70	130			

Sample ID: ics-65036	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 65036	RunNo: 85219								
Prep Date: 1/14/2022	Analysis Date: 1/18/2022	SeqNo: 2998216	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		87.8	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: EOG Work Order Number: 2201647 RcptNo: 1

Received By: Tracy Casarrubias 1/18/2022 7:40:00 AM
Completed By: Cheyenne Cason 1/18/2022 7:56:08 AM
Reviewed By: sa 1/18/22

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 of >12 unless noted)
Adjusted?
Checked by: cm 1/18/22

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, 4.7, Good, Not Present, , ,

Analytical Report

Lab Order **2202639**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-37 3'

Project: Warren ANW Federal #6

Collection Date: 2/11/2022 7:15:00 AM

Lab ID: 2202639-001

Matrix: MEOH (SOIL)

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6100	300		mg/Kg	100	2/15/2022	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	47	9.6		mg/Kg	1	2/14/2022 1:08:58 PM	65516
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/14/2022 1:08:58 PM	65516
Surr: DNOP	105	51.1-141		%Rec	1	2/14/2022 1:08:58 PM	65516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/12/2022 6:57:00 PM	R85801
Surr: BFB	96.9	70-130		%Rec	1	2/12/2022 6:57:00 PM	R85801
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	2/12/2022 6:57:00 PM	BS85801
Toluene	ND	0.040		mg/Kg	1	2/12/2022 6:57:00 PM	BS85801
Ethylbenzene	ND	0.040		mg/Kg	1	2/12/2022 6:57:00 PM	BS85801
Xylenes, Total	ND	0.079		mg/Kg	1	2/12/2022 6:57:00 PM	BS85801
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	2/12/2022 6:57:00 PM	BS85801

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

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

Analytical Report

Lab Order **2202639**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-38 3'

Project: Warren ANW Federal #6

Collection Date: 2/11/2022 7:20:00 AM

Lab ID: 2202639-002

Matrix: MEOH (SOIL)

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6200	300		mg/Kg	100	2/15/2022	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	61	9.6		mg/Kg	1	2/14/2022 1:33:02 PM	65516
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/14/2022 1:33:02 PM	65516
Surr: DNOP	101	51.1-141		%Rec	1	2/14/2022 1:33:02 PM	65516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	2/12/2022 7:17:00 PM	R85801
Surr: BFB	94.5	70-130		%Rec	1	2/12/2022 7:17:00 PM	R85801
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.021		mg/Kg	1	2/12/2022 7:17:00 PM	BS85801
Toluene	ND	0.042		mg/Kg	1	2/12/2022 7:17:00 PM	BS85801
Ethylbenzene	ND	0.042		mg/Kg	1	2/12/2022 7:17:00 PM	BS85801
Xylenes, Total	ND	0.084		mg/Kg	1	2/12/2022 7:17:00 PM	BS85801
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	2/12/2022 7:17:00 PM	BS85801

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

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

Analytical Report

Lab Order **2202639**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-39 3'

Project: Warren ANW Federal #6

Collection Date: 2/11/2022 7:25:00 AM

Lab ID: 2202639-003

Matrix: MEOH (SOIL)

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	6200	300		mg/Kg	100	2/15/2022	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	29	9.4		mg/Kg	1	2/14/2022 1:57:12 PM	65516
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/14/2022 1:57:12 PM	65516
Surr: DNOP	92.2	51.1-141		%Rec	1	2/14/2022 1:57:12 PM	65516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/12/2022 7:37:00 PM	R85801
Surr: BFB	96.7	70-130		%Rec	1	2/12/2022 7:37:00 PM	R85801
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	2/12/2022 7:37:00 PM	BS85801
Toluene	ND	0.040		mg/Kg	1	2/12/2022 7:37:00 PM	BS85801
Ethylbenzene	ND	0.040		mg/Kg	1	2/12/2022 7:37:00 PM	BS85801
Xylenes, Total	ND	0.081		mg/Kg	1	2/12/2022 7:37:00 PM	BS85801
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	2/12/2022 7:37:00 PM	BS85801

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

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

Analytical Report

Lab Order **2202639**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-40 3'

Project: Warren ANW Federal #6

Collection Date: 2/11/2022 7:30:00 AM

Lab ID: 2202639-004

Matrix: MEOH (SOIL)

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	5800	300		mg/Kg	100	2/15/2022	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	64	9.1		mg/Kg	1	2/14/2022 2:21:25 PM	65516
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/14/2022 2:21:25 PM	65516
Surr: DNOP	77.1	51.1-141		%Rec	1	2/14/2022 2:21:25 PM	65516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg	1	2/12/2022 7:57:00 PM	R85801
Surr: BFB	94.4	70-130		%Rec	1	2/12/2022 7:57:00 PM	R85801
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.027		mg/Kg	1	2/12/2022 7:57:00 PM	BS85801
Toluene	ND	0.054		mg/Kg	1	2/12/2022 7:57:00 PM	BS85801
Ethylbenzene	ND	0.054		mg/Kg	1	2/12/2022 7:57:00 PM	BS85801
Xylenes, Total	ND	0.11		mg/Kg	1	2/12/2022 7:57:00 PM	BS85801
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	2/12/2022 7:57:00 PM	BS85801

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

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

Analytical Report

Lab Order **2202639**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-41 4'

Project: Warren ANW Federal #6

Collection Date: 2/11/2022 7:35:00 AM

Lab ID: 2202639-005

Matrix: MEOH (SOIL) **Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	220	59		mg/Kg	20	2/14/2022 4:26:51 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/14/2022 2:45:45 PM	65516
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/14/2022 2:45:45 PM	65516
Surr: DNOP	88.3	51.1-141		%Rec	1	2/14/2022 2:45:45 PM	65516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	2/12/2022 8:16:00 PM	R85801
Surr: BFB	95.5	70-130		%Rec	1	2/12/2022 8:16:00 PM	R85801
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	2/12/2022 8:16:00 PM	BS85801
Toluene	ND	0.037		mg/Kg	1	2/12/2022 8:16:00 PM	BS85801
Ethylbenzene	ND	0.037		mg/Kg	1	2/12/2022 8:16:00 PM	BS85801
Xylenes, Total	ND	0.075		mg/Kg	1	2/12/2022 8:16:00 PM	BS85801
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	2/12/2022 8:16:00 PM	BS85801

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

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

Analytical Report

Lab Order **2202639**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-42 4'

Project: Warren ANW Federal #6

Collection Date: 2/11/2022 7:40:00 AM

Lab ID: 2202639-006

Matrix: MEOH (SOIL)

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	310	60		mg/Kg	20	2/14/2022 4:39:15 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/14/2022 3:10:04 PM	65516
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/14/2022 3:10:04 PM	65516
Surr: DNOP	86.3	51.1-141		%Rec	1	2/14/2022 3:10:04 PM	65516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	2/12/2022 8:36:00 PM	R85801
Surr: BFB	96.4	70-130		%Rec	1	2/12/2022 8:36:00 PM	R85801
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.018		mg/Kg	1	2/12/2022 8:36:00 PM	BS85801
Toluene	ND	0.036		mg/Kg	1	2/12/2022 8:36:00 PM	BS85801
Ethylbenzene	ND	0.036		mg/Kg	1	2/12/2022 8:36:00 PM	BS85801
Xylenes, Total	ND	0.073		mg/Kg	1	2/12/2022 8:36:00 PM	BS85801
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	2/12/2022 8:36:00 PM	BS85801

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

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

Analytical Report

Lab Order **2202639**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-43 4'

Project: Warren ANW Federal #6

Collection Date: 2/11/2022 7:45:00 AM

Lab ID: 2202639-007

Matrix: MEOH (SOIL)

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	320	60		mg/Kg	20	2/14/2022 4:51:40 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/14/2022 3:34:22 PM	65516
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/14/2022 3:34:22 PM	65516
Surr: DNOP	85.3	51.1-141		%Rec	1	2/14/2022 3:34:22 PM	65516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	2/12/2022 8:56:00 PM	R85801
Surr: BFB	97.5	70-130		%Rec	1	2/12/2022 8:56:00 PM	R85801
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.018		mg/Kg	1	2/12/2022 8:56:00 PM	BS85801
Toluene	ND	0.035		mg/Kg	1	2/12/2022 8:56:00 PM	BS85801
Ethylbenzene	ND	0.035		mg/Kg	1	2/12/2022 8:56:00 PM	BS85801
Xylenes, Total	ND	0.070		mg/Kg	1	2/12/2022 8:56:00 PM	BS85801
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	2/12/2022 8:56:00 PM	BS85801

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

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

Analytical Report

Lab Order **2202639**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-44 4'

Project: Warren ANW Federal #6

Collection Date: 2/11/2022 7:50:00 AM

Lab ID: 2202639-008

Matrix: MEOH (SOIL) **Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	330	60		mg/Kg	20	2/14/2022 5:04:04 PM	65522
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/14/2022 3:58:44 PM	65516
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/14/2022 3:58:44 PM	65516
Surr: DNOP	90.2	51.1-141		%Rec	1	2/14/2022 3:58:44 PM	65516
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	2/12/2022 9:16:00 PM	R85801
Surr: BFB	97.4	70-130		%Rec	1	2/12/2022 9:16:00 PM	R85801
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	2/12/2022 9:16:00 PM	BS85801
Toluene	ND	0.038		mg/Kg	1	2/12/2022 9:16:00 PM	BS85801
Ethylbenzene	ND	0.038		mg/Kg	1	2/12/2022 9:16:00 PM	BS85801
Xylenes, Total	ND	0.076		mg/Kg	1	2/12/2022 9:16:00 PM	BS85801
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	2/12/2022 9:16:00 PM	BS85801

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

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

ATTACHMENT 8



PROPOSED ASSESSMENT AND RECLAMATION PLAN

**WARREN ANW FEDERAL #6
UNIT NWSE, SECTION 9, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.673600, -104.487900**

PREPARED FOR:

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

PREPARED BY:

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

AUGUST 27, 2021

A handwritten signature in blue ink, appearing to read "CMC", is written over a horizontal line.

**Chad M. Copeland, P.G. (TX)
Project Geoscientist**

A handwritten signature in blue ink, appearing to read "W Kierdorf", is written over a horizontal line.

**William Kierdorf, REM
Project Manager**

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BUREAU OF LAND MANAGEMENT NOTICE OF WRITTEN ORDER

FIGURES

- Topographic Map
- Area Map
- Site Map
- Proposed Assessment Area Map
- Well Pad Area Reclamation Map

ATTACHMENTS

- **Attachment 1 – Site Photographs**
- **Attachment 2 – James H & Betty R Howell Revocable Trust Seed Mix**



**PROPOSED ASSESSMENT AND RECLAMATION PLAN
WARREN ANW FEDERAL #6
UNIT NWSE, SECTION 9, TOWNSHIP 19S, RANGE 25E
EDDY COUNTY, NEW MEXICO
32.673600, -104.487900**

1.0 SITE LOCATION AND BACKGROUND

The Warren ANW Federal #6 (Site) is located on private land, approximately 12.75 miles southwest of Artesia, within Eddy County, New Mexico. The facility is situated in Unit NWSE, Section 9, T19S-R25E at GPS coordinates 32.673600, -104.487900. The well was operated by EOG Resources, Inc. (EOG) prior to the plugging and abandonment of the well.

On June 10, 2021, a Bureau of Land Management (BLM) Notice of Written Order was received by EOG regarding the subject Site. The notice outlined a historic reserve pit located to the north of the former well pad that was noted to have exposed plastic liner material and potential surface contamination. Also, the order noted that areas of the former well pad had been impacted by contaminants within the historic reserve pit.

EOG Resources, Inc. (EOG) has engaged Ranger Environmental Services, Inc. (Ranger) to assist in addressing the outstanding reclamation efforts at the Site. On June 24, 2021, Ranger and EOG personnel conducted an initial site inspection to document current conditions of the location and determine the appropriate course of action for the Site.

The following Proposed Assessment and Reclamation Plan has been prepared to return the area to pre-operation conditions.

A copy of the BLM Notice of Written Order is attached. A Topographic Map and Area Map noting the location of the subject property and surrounding areas as well as a Site Map illustrating the Site features, are provided in the Figures section.

2.0 JUNE 24, 2021 – SITE INSPECTION

On June 24, 2021, Ranger and EOG personnel conducted a site inspection to assess site conditions and determine appropriate actions necessary to address the notified BLM issues.

Upon inspection of the former pit location, the area was noted to have visible plastic liner material and potential surface contamination. Impacts along the reserve pit/well pad interface boundary were noted to have signs of potential impacts from the material within the historic reserve pit.

The remaining portions of the former well pad area and access road was noted to be in place and in need of reclamation efforts.

During the inspection, material associated with operations at the site and other various debris were observed. Additionally, potential impacts adjacent to the remaining electrical conduit were observed.

3.0 PROPOSED ASSESSMENT PLAN

3.1 Well Pad Area

In order to assess the BLM reported areas of potential impact on the well pad, delineation sampling activities are proposed. To assess the presence and extent of impacts in the area, excavation test holes will be completed in various locations for the purpose of soil sample collection.

The initial sample locations will be located immediately south of the reserve pit/well pad interface boundary. During the test hole installation process, soils will be analyzed by Ranger personnel at the surface and at approximate one foot intervals using an organic vapor monitor (OVM) and a field chloride titration kit to assist in evaluating soil conditions and/or levels of impacts in the area. The test holes will be completed to a depth where field reading indicate that soil concentrations are within the applicable NMAC Table 1 closure criteria or to the maximum extent of the available on-site equipment. Dependent on the levels of impacts observed in the initial test hole locations, if necessary, additional locations will be selected to the south, east and west of the initial locations in order to horizontally delineate the potential impacts in the area. The locations and depth of investigation of the additional test holes will be determined based on the conditions observed within the initial assessment locations. Additional assessment test hole to the north of the initial location will be limited as to not disturb and compromise the stability of the subject historic reserve pit area.

Soil samples for laboratory analysis will be collected from each test hole location. Upon collection, the soil samples will be submitted to a NELAC accredited laboratory 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.

3.2 Electrical Conduit Area

As previously stated, during the June 24, 2021 site inspection, an area adjacent to remaining electrical conduit with potential soil impacts was observed. The area was noted to have a discolored appearance and a hydrocarbon odor. During the removal of the electrical conduit, the area will be assessed for extent of impacts. Based on the observed area, the impacts in the area are anticipated to be of de minimus volumes and assessment is anticipated to be completed in conjunction of the conduit removal process. If field conditions warrant additional assessment be completed, excavation test holes will be completed as necessary to properly delineate the horizontal and vertical impacts in the area.

4.0 REMEDIATION

4.1 Well Pad Area

Based on the findings of the assessment process in the area of the well pads, a site investigation and proposed remediation plan will be prepared. The plan will include details of the conducted assessment process, the proposed remediation strategy, and confirmation sampling details. The plan will be prepared in order to bring the area into compliance with the standards outlined in NMAC 19.15.29.

4.2 Electrical Conduit Area

As previously stated the impacts observed in the area of the in place electrical conduit are anticipated to be of de minimus volumes. It is proposed that the impacts will be addressed during the removal of the conduit from the area. Any impacted material generated during the process will be transported to an NMOCD approved facility for disposal.

Upon completion of the removal process, soil samples for laboratory analysis will be collected. The samples will be collected in accordance with NMAC 19.15.29.12 as five part composite samples with each sample representative of no more than 200 square feet. The soil samples will be submitted to a NELAC accredited laboratory for analysis of TPH, BTEX, total chloride using the aforementioned laboratory methods.

In the event that impacts in the area are greater than anticipated, additional assessment/delineation sampling will be conducted in order to prepare a formal remedial plan. If necessary, a subsequent remedial plan will be included in conjunction with the well pad area remedial plan.

5.0 PROPOSED RECLAMATION PLAN

Upon completion of the remedial process at the Site, the former well pad location will undergo reclamation to bring the site to BLM and NMOCD standards. To complete this process the following items are proposed.

5.1 Debris Removal

Any and all remaining equipment, trash, or debris associated with operation or remedial efforts at the site will be removed. The observed remaining electrical conduit will be removed during the assessment/remedial operations at the Site.

If any additional material is discovered during the subsequent reclamation efforts, it will also be removed.

5.2 Former Pit Location

During the June 24, 2021 site inspection, surface contamination exposed plastic pit liner material was observed in the area of the historic reserve pit location. To limit potential leaching, it is proposed to cap the area with a Bentomat Geosynthetic Clay Liner (GCL). Prior to placement, the former pit location will be prepared by removing any items that could potentially damage the liner. The GCL will be placed parallel to the areas natural contours and anchored as necessary to ensure stability of the liner. The area will be capped with two feet of top-soil for revegetation

purposes and contoured to match the natural contours of the area. Upon completion of the liner and topsoil installation process, the area will be re-seeded in accordance with the Howell Ranch directed seed mixture and application rate.

5.3 Well Pad and Access Road Contouring

In order to bring the area topography back to pre-operation conditions, contouring of the area will be necessary. The natural contours of the area are noted to be trending in a southeastern direction. During the initial June 24, 2021 site visit, a soil cut/depression located along the western/northwestern pad area was observed. The southern/southeastern pad boundaries were also noted to be raised or benched in order to create a level pad surface. Additionally, a raised area along the access road immediately west of the former well pad was noted.

Following the removal of all surface equipment and initial soils investigation, the caliche or non-native well pad will be removed from the location. Upon completion, contouring activities including the removal of the raised/benched areas along the southern/southeastern portion of the well pad and restoring back to the natural grade of the area. The native material generated during this process will be placed within the soil cut to the northwest of the former well pad to bring the area back to grade. The raised portion of the access road will also be removed and the material will be utilized to bring the soil cut area back to a natural topography.

During the contouring process it is anticipated that ample volumes of top-soil will be exposed for reseeding purposes. However, if additional material is deemed necessary, topsoil material similar in characteristics will be added in the necessary areas.

5.4 Former Well Pad

To address the lack of vegetation on the former well pad area, additional ripping and seeding activities will be completed. Upon completion of the re-contouring activities, ripping will be conducted in a northeastern to southwestern direction to assist in limiting potential runoff from the area. The site will be re-seeded in accordance with the Howell Ranch directed seed mixture and application rate.

5.5 Access Road

The former well access road will require deep ripping and reseeding activities. Upon completion of the re-contouring activities, the ripping will be conducted in an east to west direction as to not disturb areas adjacent to the access road.

5.6 Site Security

To secure the reclaimed areas from adverse vehicular and/or livestock activity, the entirety of the reclamation areas (road, former pad, and pit area) will be surrounded by fencing until reaching the target vegetative cover of approximately 80%. Based on preliminary review of the site location, erosion control berms do not appear necessary at the location. However, if efforts appear warranted as the reclamation process continues they will be installed as necessary.

6.0 SITE MONITORING AND CLOSURE



To monitor the progress of the reclamation efforts, site inspections will be conducted at six month intervals. During the site inspections, the reclaimed areas will be evaluated for vegetation growth, site security measures, and erosional controls. If any issues are observed, additional actions will be implemented to address the issues.

During the inspection process, if a vegetation cover of approximate 80% is believed to be achieved, Ranger will utilize Daubenmire Survey techniques to confirm that the area is in attainment of the target vegetative cover of 80%.

Upon successfully achieving the target re-vegetation level of approximately 80%, a Final Abandonment Notice (FAN) will be submitted. After receiving BLM FAN notice approval, the site security fencing and any other control measures will be removed.



BUREAU OF LAND MANAGEMENT NOTICE OF
WRITTEN ORDER

Form 3160-18
(November 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOTICE OF WRITTEN ORDER

Number 21MBH0023W
Page 1 of 3

<input checked="" type="checkbox"/> Certified Mail-Return Receipt Requested	Identification
<input type="checkbox"/> Hand Delivered, Received By and Date	Lease <u>NMNM1372</u>
	Agreement

Bureau of Land Management Office Carlsbad Field Office	Operator or Third Party EOG RESOURCES INCORPORATED
Address <u>620 E. Greene St. Carlsbad, NM 88220</u>	Address
Telephone <u>5752345951</u>	Inspector <u>MELISSA HORN</u>
Site Name <u>WARREN ANW FED</u>	Well/Facility/FMP/Identification# <u>6</u>
Site Name <u>WARREN ANW FED</u>	Well/Facility/FMP/Identification# <u>6</u>
Site Name	Well/Facility/FMP/Identification#

THE FOLLOWING ISSUE(S) WERE FOUND BY BUREAU OF LAND MANAGEMENT INSPECTORS ON THE DATE AND AT THE SITE(S) LISTED.

Date	Time (24-hour Clock)	Corrective Action to be Completed By	Date Corrected	Authority Reference
06/10/2021	15:00	08/01/2021		43 CFR 3162.5-1 (a)

Remarks:

Field inspection was conducted on 5/20/2021 to monitor progress of the reclamation at the specified location. Inspection found the following environmental concerns which are required to be addressed in order to meet BLM reclamation objectives:

- A reserve pit exists to North of the location is required to be reclaimed. Surface contamination as well as exposed plastic liner is present in this location. Prior to commencing ground-disturbing work in this area a work plan must be submitted to BLM to ensure reclamation activities are in compliance with federal agencies and as well as private landowner.

- Locations on the reclaimed pad have been impacted by the contaminants within the reserve pit. In order to properly mitigate and/or lessen the probability of impact surface contamination, and in accordance with 43 CFR 3162.5-1 (c), all contaminated soils need to be excavated and hauled to an authorized land disposal facility and excavated soils replaced with clean material.

The above issues must be remedied prior to the specified abatement date in order to avoid further enforcement action. Return signed I&E Copy to the office via mail or email once completed. Feel free to contact me with any questions, concerns, onsite requests, or if you are unable to address these issues at this time.



When the Written Order is complied with, sign this notice and return to above address.

Company Representative Signature: _____ Print Name: _____ Date: _____

Company Comments:

In accordance with 43 CFR 3163.1(a), you must comply with the corrective actions for the identified issue(s) by the abatement date provided above. If you fail to comply within the time frames specified, you will be issued an Incident of Noncompliance (INC) in accordance with 43 CFR 3163.1(a), which may include an assessment or additional enforcement actions as deemed necessary to gain compliance.

WARNING

The Authorized Officer has authority to issue a Written Order in accordance with 43 CFR 3161.2. Per 43 CFR 3165.3, Written Order and reporting time frames begin upon receipt of the Notice, or seven business days after the date it is mailed, whichever is earlier. Each issue must be corrected by the "Action to be Completed By" date identified above. This form must be signed, dated, and postmarked no later than the next business day after the prescribed timeframe for correction and returned to the Bureau of Land Management office at the address shown above.

Section 109(d)(1) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at 43 CFR 3163.2(f)(1), provides that any person who "knowingly or willfully" prepares, maintains, or submits false, inaccurate, or misleading reports, notices, affidavits, records, data, or other written information required by this part shall be liable for a civil penalty per violation for each day such violation continues.

REVIEW AND APPEAL RIGHTS

A person contesting an Order of the Authorized Officer or violation must request a State Director Review of the Written Order or Incident of Noncompliance. This request must be filed within 20 business days of receipt of the Written Order with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, MS 300-QC, Arlington, Virginia 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

Signature of Bureau of Land Management Authorized Officer	Date	Time (24-hour Clock)
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Remarks:

Field inspection was conducted on 5/20/2021 to monitor progress of the reclamation at the specified location. Inspection found the following environmental concerns which are required to be addressed in order to meet BLM reclamation objectives:

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Attn: Melissa Horn, Environmental Protection Specialist
620 E Greene Street
Carlsbad, NM 88220
Phone: (575) 988-5122
Email: mhorn@blm.gov

FIGURES

TOPOGRAPHIC MAP

AREA MAP

SITE MAP

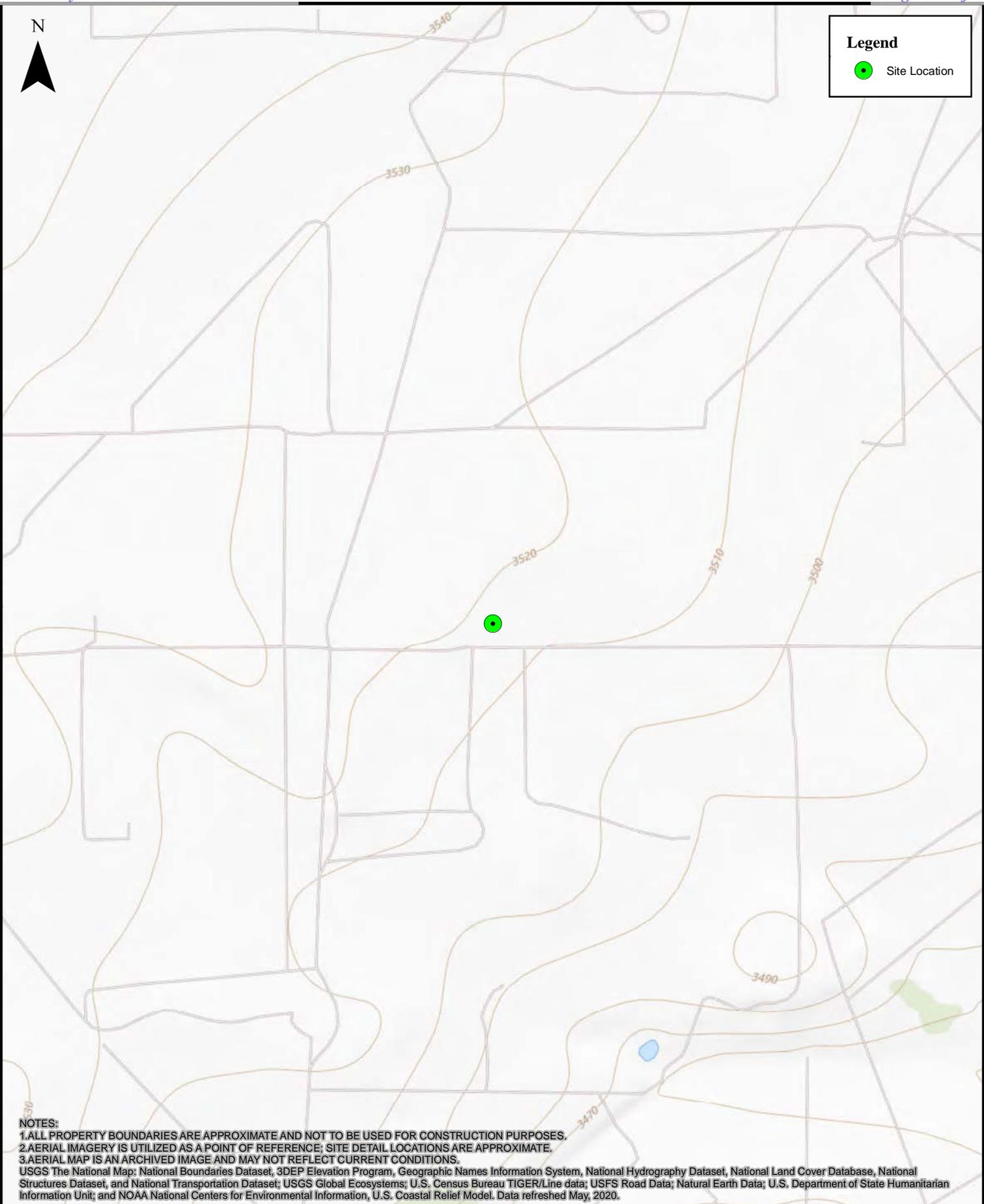
PROPOSED ASSESSMENT AREA MAP

WELL PAD AREA RECLAMATION MAP

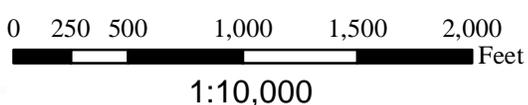


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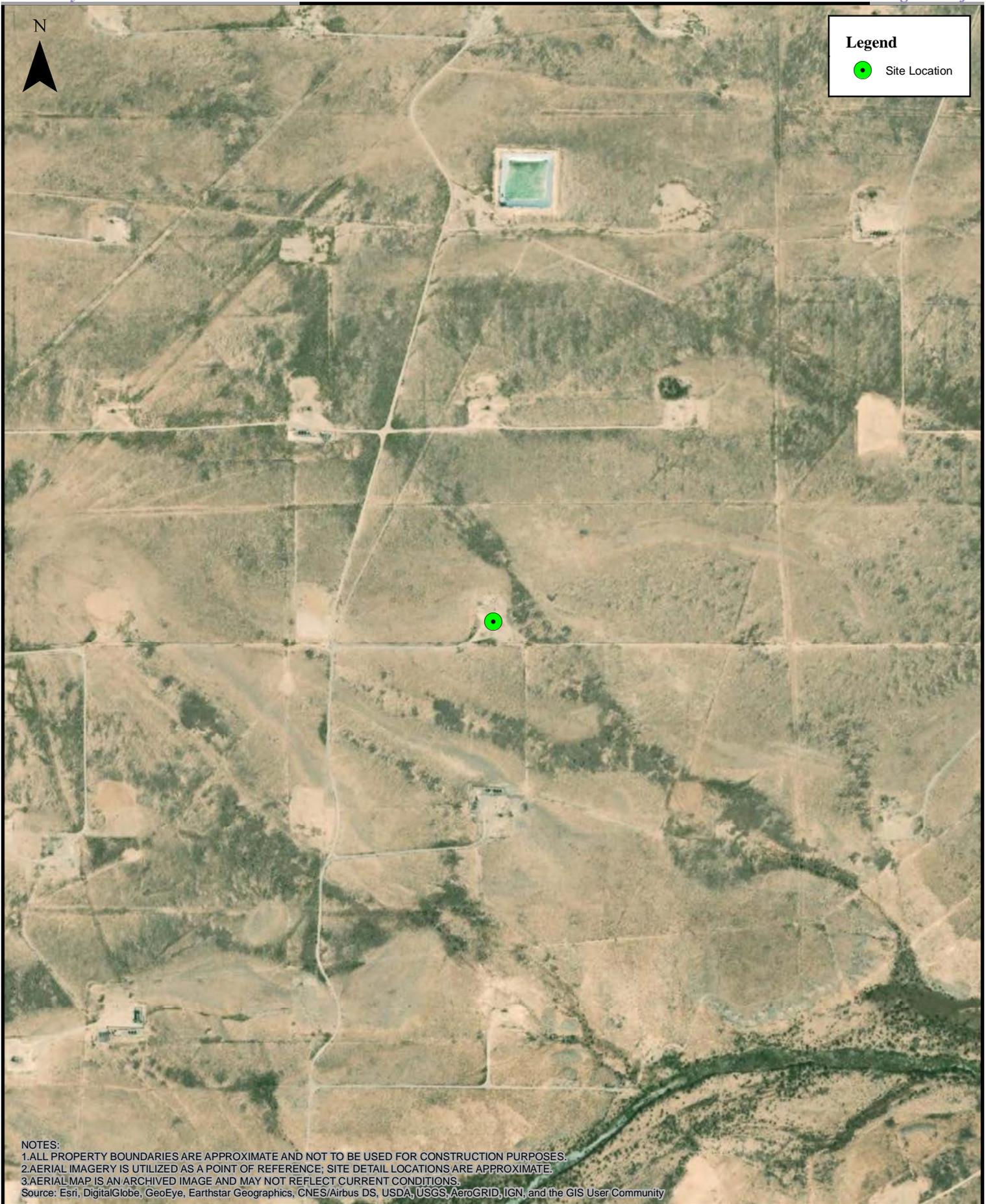
-  Site Location



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



Topographic Map
 Warren ANW Federal #6
 EOG Resources, Inc.



Legend

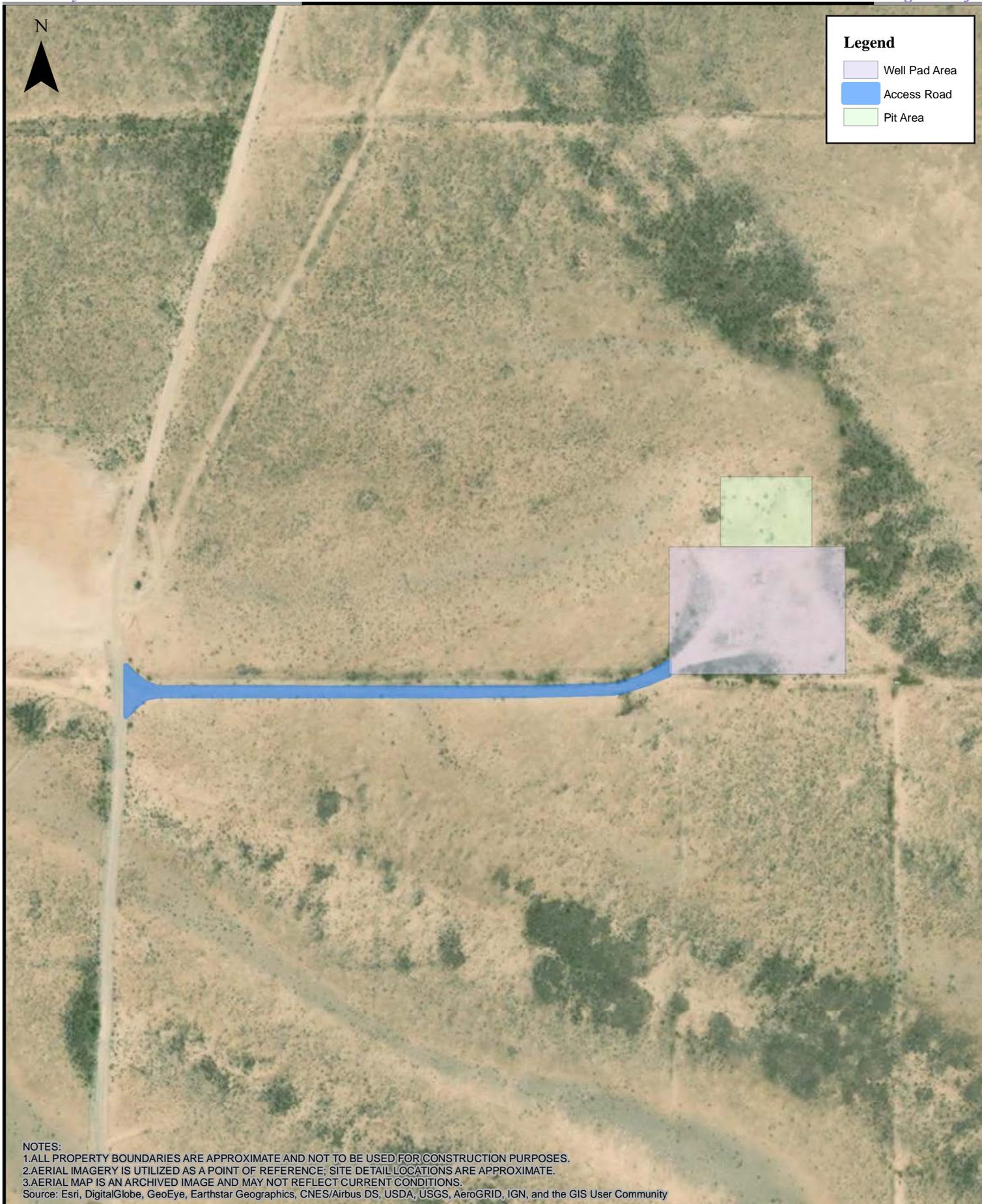
● Site Location

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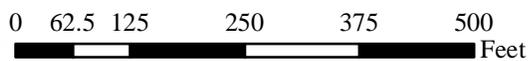


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Area Map
 Warren ANW Federal #6
 EOG Resources, Inc.



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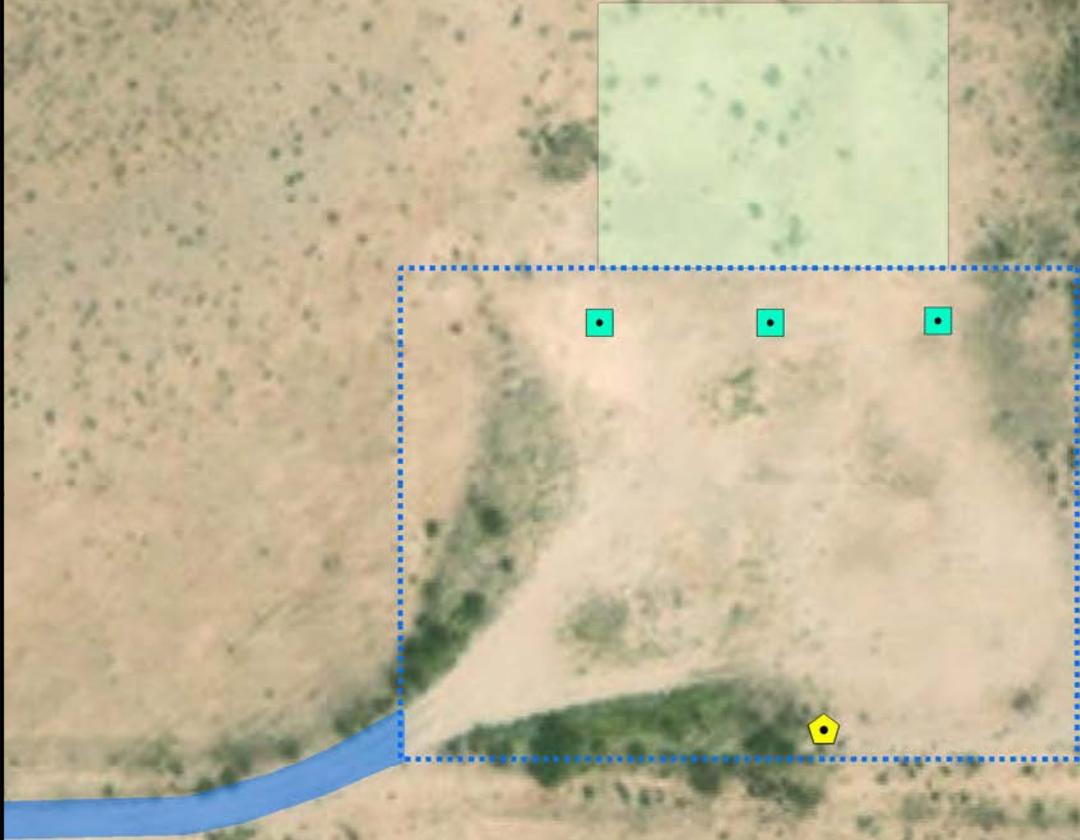
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Site Map
 Warren ANW Federal #6
 EOG Resources, Inc.

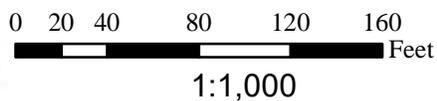


Legend

-  Proposed Initial Test Hole Location
-  Electric Conduit Area
-  Well Pad Area
-  Access Road
-  Pit Area



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Proposed Assessment Area Map
 Warren ANW Federal #6
 EOG Resources, Inc.



Legend

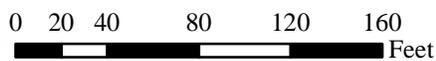
-  Well Pad Area
-  Soil Cut Area
-  Soil Grading Area
-  Access Road
-  Pit Area



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1:1,000

Well Pad Area Reclamation Map

Warren ANW Federal #6
EOG Resources, Inc.

ATTACHMENT 1 – Site Photographs



PHOTOGRAPH NO. 1 – A view of the former pit area during the June 24, 2021 site visit. The view is towards the northeast.



PHOTOGRAPH NO. 2 – A view of the former pit location (right) and soil cut/depression area (left) during the June 24, 2021. The view is from the well pad to the northwest.



PHOTOGRAPH NO. 3 – A view of the potential impacts in the vicinity of the remaining electrical conduit.



PHOTOGRAPH NO. 4 – A view of the southern pad boundary noted to be raised above the natural grade of the surrounding area. The view is towards the east.

ATTACHMENT 2 – James H & Betty R Howell
Revocable Trust Seed Mix

James H & Betty R Howell Revocable Trust Seed Mix

1lb per acre of Plains Bristlegrass

2lbs per acre of Green Sprangletop

3lbs per acre of Side Oats Gramma

2lbs per acre of Blue Gramma

Increase to 16lbs per acre if broadcast.

Add Reclamation Mix

40% Ryegrass (Annual)

10% Millet

7.5% Kleingrass

5.7% Sideoats

5% Green Sprangletop

7.5% Bristlegrass

10% Western Wheatgrass

10% Buffalograss

2.5% Blue Grama

PLANTING RATE 20 lbs. per acre

Updated 5/23/2021

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 82730

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 82730
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	3/10/2022