

SITE ASSESSMENT/CHARACTERIZATION REPORT

CROSSROADS AFX FEDERAL #1 UNIT P, SECTION 22, TOWNSHIP 7S, RANGE 35E ROOSEVELT COUNTY, NEW MEXICO 33.68760, -103.34329 RANGER REFERENCE NO. 5375

PREPARED FOR:

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

PREPARED BY:

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

JANUARY 14, 2022

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

William Kierdorf, REM Project Manager

TABLE OF CONTENTS

1.0	SITE LOCATION AND BACKGROUND	. 1
2.0	SITE CHARACTERIZATION	. 2
2.1	Depth-to-Groundwater	. 2
2.2	Wellhead Protection Area	. 2
2.3	Distance to Nearest Significant Watercourse	. 2
3.0	SITE ASSESSMENT	. 2
3.1	June 21, 2021 – Initial Site Inspection	. 2
3.2	Tank Battery Relocation	. 3
3.3	September 22, 2021 – Site Assessment	. 3
3.4	Proposed January 2022 Depth-to-Groundwater Investigation	.4
4.0	PROPOSED REMEDIATION PLAN	. 5
5.0	SCHEDULE	. 5

FORM C-141

FIGURES

- Topographic Map
- Area Map
- Water Well Location Map
- National Wetland Inventory Map
- FEMA Floodplain Map
- Assessment Sample Location Map

TABLES

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

ATTACHMENTS

- Attachment 1 Photographic Documentation
- Attachment 2 Laboratory Analytical Reports
- Attachment 3 Water Well Records
- Attachment 4 NMOCD Correspondence



SITE ASSESSMENT/CHARACTERIZATION REPORT CROSSROADS AFX FEDERAL #1 UNIT P, SECTION 22, TOWNSHIP 7S, RANGE 35E ROOSEVELT COUNTY, NEW MEXICO 33.68760, -103.34329 RANGER REFERENCE NO. 5375

1.0 SITE LOCATION AND BACKGROUND

The Crossroads AFX #1 (Site) is an active oil and gas well location located on state land, approximately 12.5 miles north of Crossroads, within Roosevelt County, New Mexico. The facility is situated in Unit P, Section 22, T7S-R35E at GPS coordinates 33.68760, -103.34329. In June 2021, EOG Resources, Inc. (EOG) engaged Ranger Environmental Services, Inc. (Ranger) to assist in the assessment and remediation of an historic release which occurred in the facility tank battery area.

On June 21, 2021, Ranger personnel conducted an initial inspection of the release area and observed stained soils surrounding one of the tanks. The impacts were observed to have been contained within the tank battery secondary containment. The affected area was subsequently reported to the NMOCD on June 21, 2021 (NMOCD Incident # nAPP2117330665).

This *Site Assessment/Characterization Report* has been prepared to detail the results of the completed site assessment activities and to characterize the site for remediation purposes. It should be noted that the depth to groundwater at the site still must be confirmed via the installation of a soil boring/temporary well since there is no existing depth to groundwater data for the area within a one-half mile radius of the subject site.

On December 14, 2021, EOG requested an extension for this report since there was no driller availability until late January, 2022 in order to install a soil boring/temporary well. The NMOCD denied this request on December 22, 2021 and as such this report has been submitted based upon the assumption that the depth to groundwater is between 51'-100' below ground surface (bgs). EOG will be proceeding with the installation of the temporary monitor well in January 2022 to confirm the site-specific depth to groundwater and will prepare an updated Site Assessment/Characterization Report and Remediation Plan upon completion of this activity.

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

STATE OF TEXAS PROFESSIONAL GEOSCIENTIST FIRM NO. 50140 • STATE OF TEXAS PROFESSIONAL ENGINEERING FIRM NO. F-6160

2.0 SITE CHARACTERIZATION

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

To attempt to determine the depth to groundwater in the vicinity of the Site, data available from the U.S. Geological Survey (USGS) and the New Mexico Office of the State Engineer (NMOSE) was reviewed. No recent water well information within a one-half mile radius of the Site was found. The closest water well to the subject site which was found during the records review to have recent (<20 years old) depth to groundwater data was USGS Well ID 334024103200901. The records for this well indicate the depth to groundwater is currently between 50' and 100' bgs.

Due to the lack of recent (<20 years old) depth to groundwater data within a one-half mile radius of the subject site, and due to the possibility that the depth-to-groundwater may be greater than 50' bgs, EOG plans on installing a soil boring/temporary well at the site in order to obtain site-specific depth to groundwater data. The soil boring/temporary well will be installed in January 2022 and will be left open for approximately 72 hours prior to plugging in order to obtain depth to groundwater data. The temporary well will then be plugged and abandoned.

Copies of the reviewed depth-to-groundwater information are attached, as well as a Water Well Location Map, for the nearest water wells found outside of the 0.5-mile radius search area.

2.2 <u>Wellhead Protection Area</u>

Based upon the USGS and NMOSE information, no water wells were reported within a half-mile radius of the Site.

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

The Site and impacted area are outside of the FEMA 100-year flood plain and fall into an area of undetermined flood hazard.

The Site is not located in a Karst Topography area.

2.3 Distance to Nearest Significant Watercourse

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

3.0 SITE ASSESSMENT

3.1 June 21, 2021 – Initial Site Inspection

On June 21, 2021, Ranger personnel mobilized to the Site to conduct an initial inspection of the tank battery area impacted by the historic release. Soil discoloration was noted to be present surrounding the base of one of the tanks. Ranger also observed that portions of the impact area appeared to have been historically excavated to a depth of approximately two feet bgs. Soil discoloration and staining were also observed in this excavated area. All impacts were noted to be contained within the tank battery secondary containment area.



During the site inspection, Ranger personnel also screened the affected soil area using an organic vapor monitor (OVM) and field chloride titration kit. The stained soils exhibited strong hydrocarbon odor and elevated OVM readings up to 1,872 ppm. No elevated field chloride readings were obtained. Two hand auger borings were installed within the affected area to depths of 7' and 9' bgs. Elevated OVM readings and hydrocarbon odors were documented to the terminal depths of each of these borings.

Based on the initial inspection results, the affected area was subsequently reported to the NMOCD (Incident # nAPP2117330665) and plans were made to return to the site to conduct a formal site assessment.

3.2 <u>Tank Battery Relocation</u>

Due to the proximity of the impacted area to the tanks within the secondary containment area, it was deemed necessary to relocate the tanks to allow for the performance of the site assessment and remediation efforts. In July and August 2021, representatives from EOG conducted relocation activities to move the tanks. Due to the amount of time required for planning and performing the relocation of the tanks, and further delays due to the unseasonal amount of precipitation received in the area, on September 16, 2021 EOG requested an extension from NMOCD for the submittal of the site characterization and remediation plan. The NMOCD approved of this request on September 17, 2021.

3.3 <u>September 22, 2021 - Site Assessment</u>

On September 22, 2021, Ranger personnel and representatives for EOG mobilized to the Site to assess the affected area. The assessment process included the installation of five test excavations, two hand auger soil borings, and the collection of soil samples for laboratory analysis. The test excavations were completed with a trackhoe capable of reaching a maximum depth of approximately 19 feet bgs. The attached *Assessment Sample Location Map* illustrates the assessment sampling locations.

A total of five test excavations (TH-1 through TH-5) were completed at the site. Test excavations TH-1 and TH-3 were completed within the observed approximate two-foot deep excavated area. Test excavations TH-2 and TH-4 were completed to the north and south, respectively, of the stained/excavated area. Test excavation TH-5 was located immediately east of the tank battery area on the well/facility pad.

The utility one-call completed for the Site indicated the presence of an active flowline operated by Targa Resources (Targa) immediately west of the western pad/facility boundary. Due to the presence of the active flowline, the assessment activities west of the tank battery area were completed with a hand auger for safety purposes. Two hand auger borings (TH-6 and TH-7) were installed and sampled immediately west of the impacted area along the well/facility pad boundary.

During the test excavation and hand auger boring installation process, Ranger personnel conducted field screening of the generated soils using an OVM and field chloride titration kit. The OVM screening of the encountered soils was conducted at the surface and at one-foot increments to the total test excavation and boring depths. The field chloride readings were collected at select intervals based upon field observations and the OVM results.



The field chloride titration results did not document any apparent elevated chloride concentrations in excess of the most stringent Table 1 Criteria. Thus, the OVM results were primarily utilized to determine the excavation/boring depths. All excavations/borings were advanced until OVM readings of 3 ppm or less were achieved, or in the case of test excavation TH-1, the test excavation was halted at a depth of 19' bgs which was the limitation of the trackhoe.

Discolored soils and significantly elevated OVM readings were encountered during the assessment process in test excavations TH-1 and TH-3. At the TH-1 location, a maximum OVM reading of 1,424 ppm was detected at an approximate depth of 9' bgs, which significantly declined by approximately 17'-19' bgs where readings of 17-65 ppm were obtained. The soils in test excavation TH-3 only exhibited significantly elevated OVM readings in the upper several feet of soil, with readings ranging from 597 ppm at the surface and declining to 7 ppm by a depth of three feet.

Soil samples were subsequently collected for laboratory analysis from each test excavation and hand auger boring in order to delineate the soil impacts. This included the collection of samples for laboratory analysis from the depth intervals exhibiting the highest OVM readings, from the excavation/boring total depths, and from other select intervals based upon the results of the field screening activities and visual observations of potential impact. A total of 21 soil samples were collected for laboratory analysis.

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

The results of the laboratory analyses documented BTEX and/or TPH exceedances of the 19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW 51'-100') and/or the 19.15.29.13 NMAC Reclamation Criteria in select samples from test excavations TH-1 through TH-5. No impacts were detected to the west of the well/facility pad boundary in hand auger borings TH-6 and TH-7. No samples were found to contain elevated chloride in excess of 600 mg/Kg. The vertical extent of impact in each test excavation/boring was successfully delineated.

The soil sample analytical results are summarized in the attached soil analytical table. Copies of the laboratory analytical reports are also attached. Ranger notes that if the depth to groundwater at the site is found to be different than that assumed in this report (i.e., 51'-100' bgs) following the installation of the proposed soil boring/temporary well, then the site analytical results will have to be reevaluated using the appropriate 19.15.29.12 NMAC Table 1 Closure Criteria.

3.4 <u>Proposed January 2022 Depth-to-Groundwater Investigation</u>

As summarized in Section 2.1, above, due to the lack of recent (<20 years old) depth to groundwater data within a one-half mile radius of the subject site, and due to the possibility that the depth-to-groundwater may be greater than 50' bgs, EOG plans on installing a soil boring/temporary well at the site in order to obtain site-specific depth to groundwater data. The soil boring/temporary well will be installed in January 2022 and will be completed to a depth of approximately 55' bgs. Upon completion the soil boring/temporary well will be left open for approximately 72 hours prior to plugging in order to obtain depth to groundwater data. The temporary well will then be properly plugged and abandoned.



4.0 PROPOSED REMEDIATION PLAN

Upon completion of the depth-to-groundwater confirmation activities a Remediation Plan designed to bring the site into compliance with the appropriate 19.15.29.12 NMAC Table 1 Closure Criteria will be prepared and submitted for NMOCD approval.

5.0 SCHEDULE

The proposed soil boring/temporary well is scheduled to be installed in January 2022. An updated Site Assessment/Characterization Report and Remediation Plan will be prepared following this activity. It is estimated that the updated Site Assessment/Characterization Report and Remediation Plan can be prepared and submitted by March 2022.



FORMS C-141

(ORIGINAL RELEASE NOTIFICATION SECTION AND CURRENT SITE ASSESSMENT/CHARACTERIZATION SECTION)

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	nAPP2117330665
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # (assigned by OCD)
Contact mailing address 104 S. 4th Street, Artesia, NM 88	3210

Location of Release Source

Latitude 33.68760

Longitude -103.34329

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Crossroads AFX Federal #1	Site Type Battery
Date Release Discovered 06/21/2021	API# (if applicable) 30-041-20841

Unit Letter	Section	Township	Range	County
Р	22	7S	35E	Roosevelt

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release A third releas	d party environmental consultant found stained e. The consultant firm estimates that the volu	d soils around the oil tank from an unknown me released is above the reportable threshold.

Page	2
1 uge	~

Oil Conservation Division

Incident ID	NAPP2117330665
District RP	
Facility ID	
Application ID	

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

Initial Response

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

 \checkmark The source of the release has been stopped.

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

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

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

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

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

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

Printed Name: Chase Settle

Signature: Chan Sottle

Date: 06/22/2021

Telephone: 575-748-1471

Title: Rep Safety & Environmental Sr

email: Chase_Settle@eogresources.com

OCD Only

Received by:

Ramona Marcus

Date: 6/28/2021

Page 3

Incident ID nAPP2117330665 District RP Facility ID

Application ID

Site Assessment/Characterization

Oil Conservation Division

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? *The depth to groundwater still has to be confirmed via the installation of a temporary monitoring well. On 12/14/2021 EOG requested an extension for this Site Assessment/Characterization Plan since there was no driller availability until the week of 1/10/2022. The NMOCD denied this request on 12/22/2021 and as such this plan has been submitted based upon the assumption that the depth to groundwater is between 51'-100'. EOG will be proceeding with the installation of the temporary monitor well in January 2022 in order to confirm the site-specific depth to groundwater.	<u>51'-100'*</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration development production or storage site?	

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

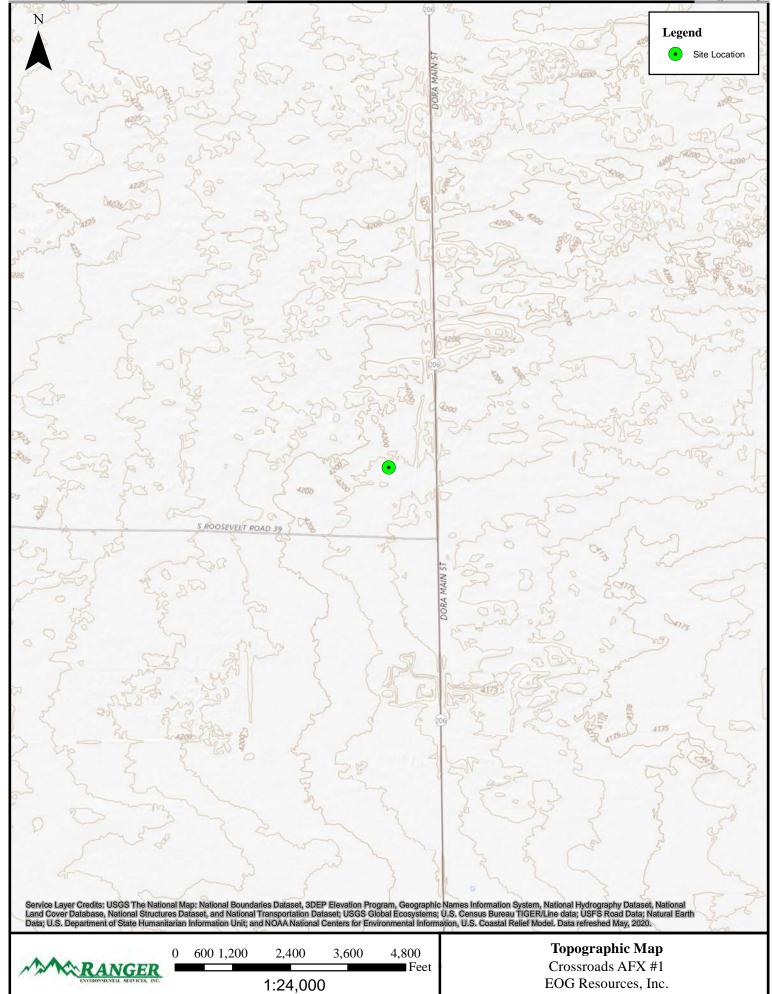
- 🛛 Field data
- Data table of soil contaminant concentration data
- Depth to water determination*
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs*
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

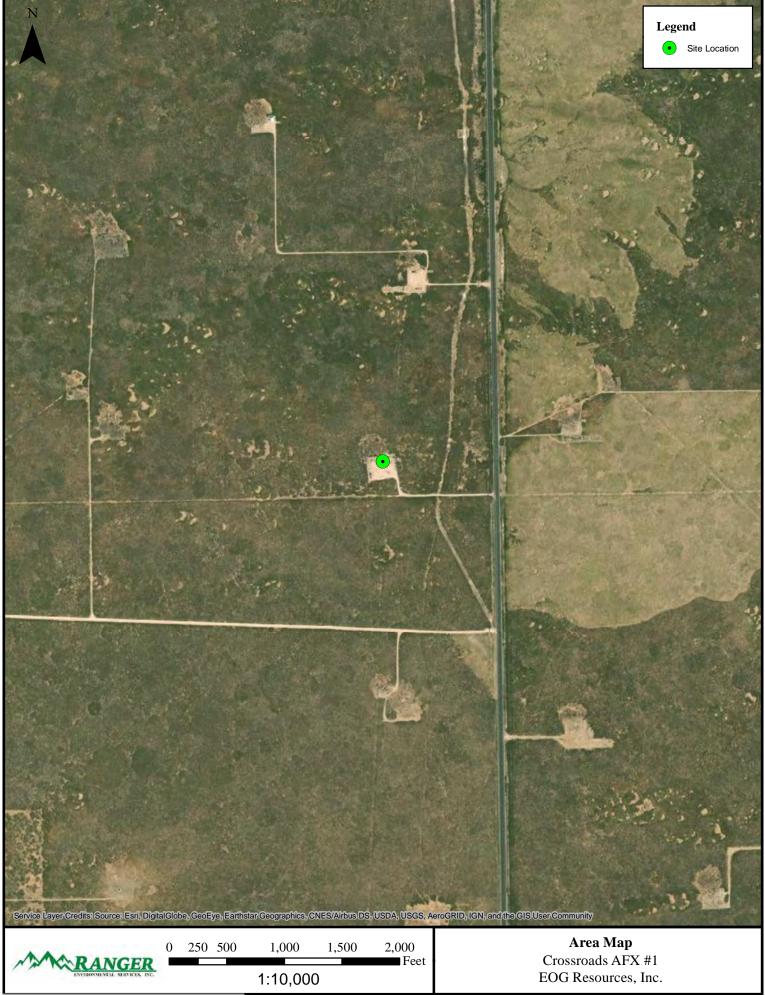
*This data will be garnered through the installation of a temporary monitoring well at the subject site in January 2022.

Received by OCD: 1/14/202	22 10:23:20 AM State of New Me	•			Page 12 of
Form C-141				Incident ID	nAPP2117330665
Page 4	Oil Conservation D	Oil Conservation Division		District RP	
				Facility ID	
				Application ID	
plan. That plan must includ and methods, anticipated tin 19.15.29.12 NMAC, however I hereby certify that the infor	port does not include completed e e the estimated volume of materi nelines for beginning and comple er, use of the table is modified by mation given above is true and comp	al to be remedia ting the remedia site- and release	ted, the propose tion. The closus e-specific param	d remediation techn re criteria for a relea neters.	ique, proposed sampling plan se are contained in Table 1 of suant to OCD rules and
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name:Chase S Signature:Chase email: Chase_Settle@	required to report and/or file certain a nent. The acceptance of a C-141 report ate and remediate contamination that a C-141 report does not relieve the or Settle Settle Peogresources.com To	ort by the OCD do pose a threat to gr operator of respon Title:	bes not relieve the roundwater, surfa sibility for compl <u>Rep Safety &</u> <u>01/14/2022</u>	operator of liability sh ce water, human health iance with any other fe Environmental Sr 2	hould their operations have n or the environment. In
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: <u>Chase S</u> Signature: <u>Chase S</u>	nent. The acceptance of a C-141 rep ate and remediate contamination that a C-141 report does not relieve the o Settle	ort by the OCD do pose a threat to gr operator of respon Title: Date	bes not relieve the roundwater, surfa sibility for compl <u>Rep Safety &</u> <u>01/14/2022</u>	operator of liability sh ce water, human health iance with any other fe Environmental Sr 2	hould their operations have n or the environment. In
public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name:Chase S Signature:Chase email: Chase_Settle@ OCD Only	nent. The acceptance of a C-141 rep ate and remediate contamination that a C-141 report does not relieve the o Settle	ort by the OCD do pose a threat to gr operator of respon Title: Date	bes not relieve the roundwater, surfar sibility for compl <u>Rep Safety &</u> : 01/14/2022	operator of liability sh ce water, human health iance with any other fe Environmental Sr 2	hould their operations have n or the environment. In

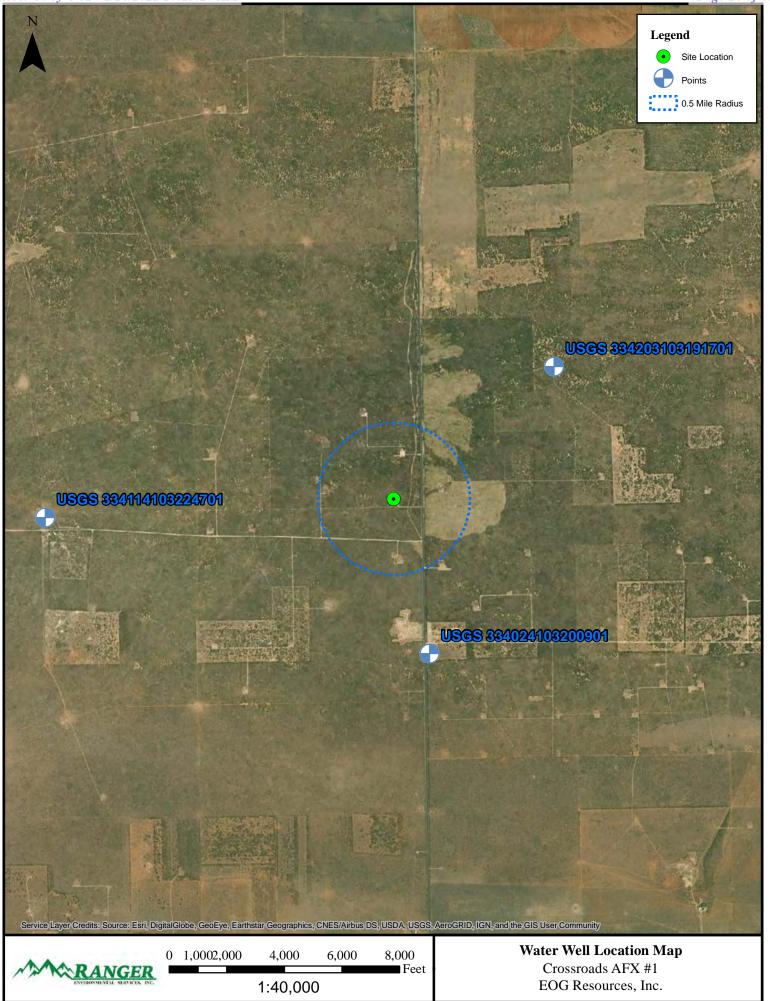
FIGURES

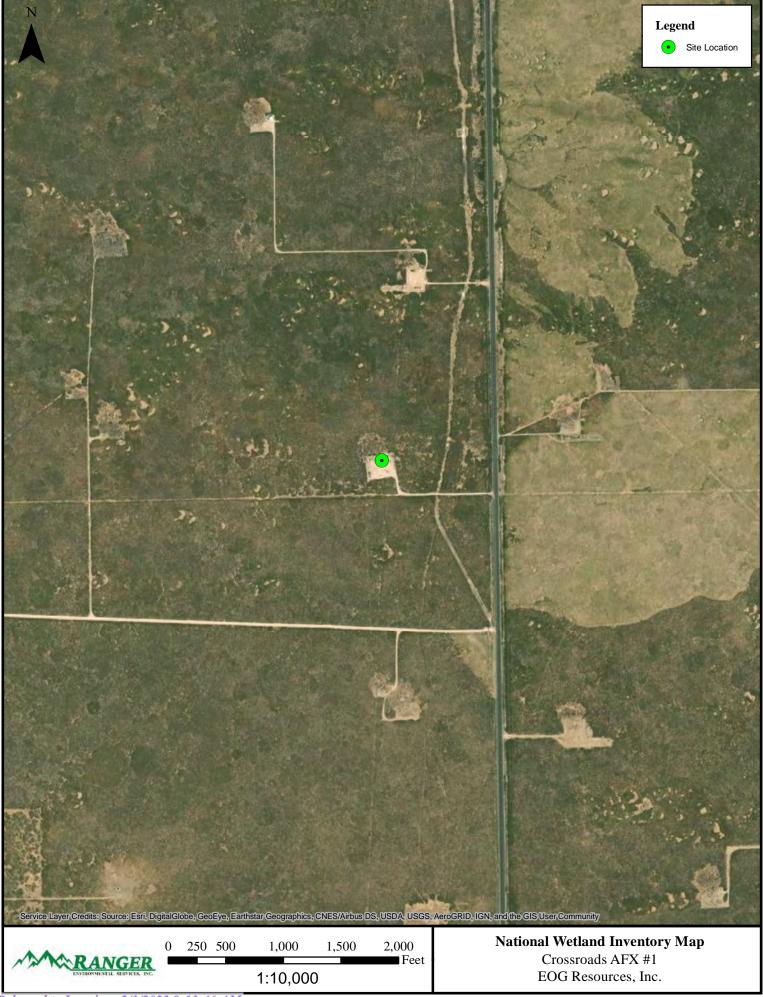
Topographic Map Area Map Water Well Location Map National Wetland Inventory Map FEMA Floodplain Map Assessment Sample Location Map Received by OCD: 1/14/2022 10:23:20 AM

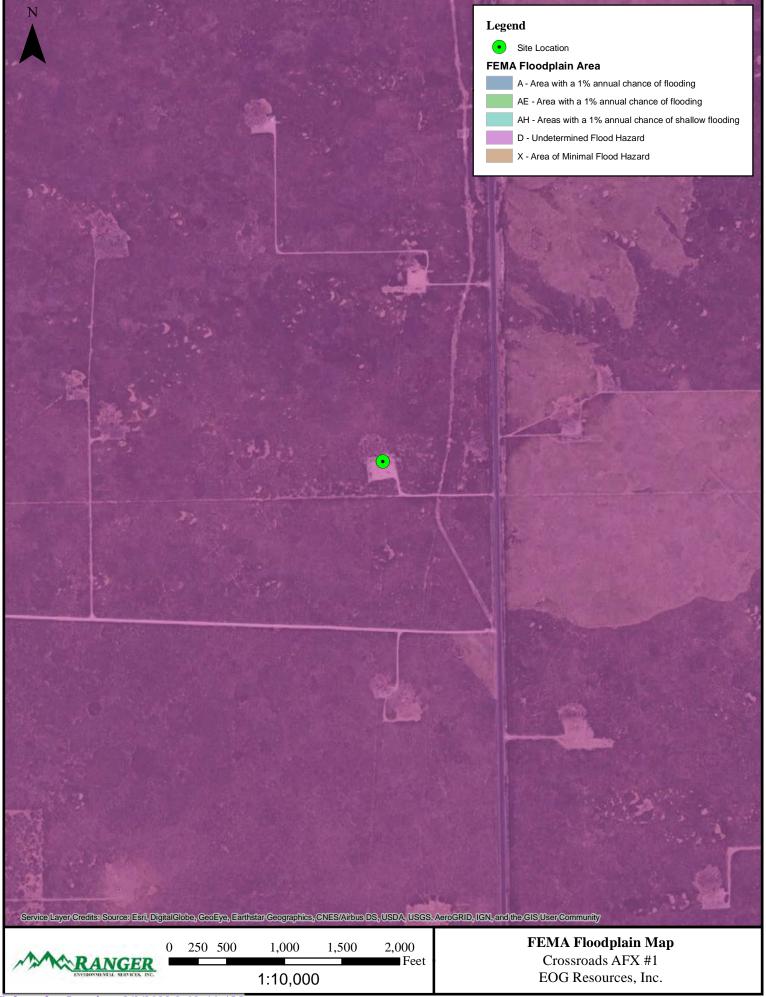


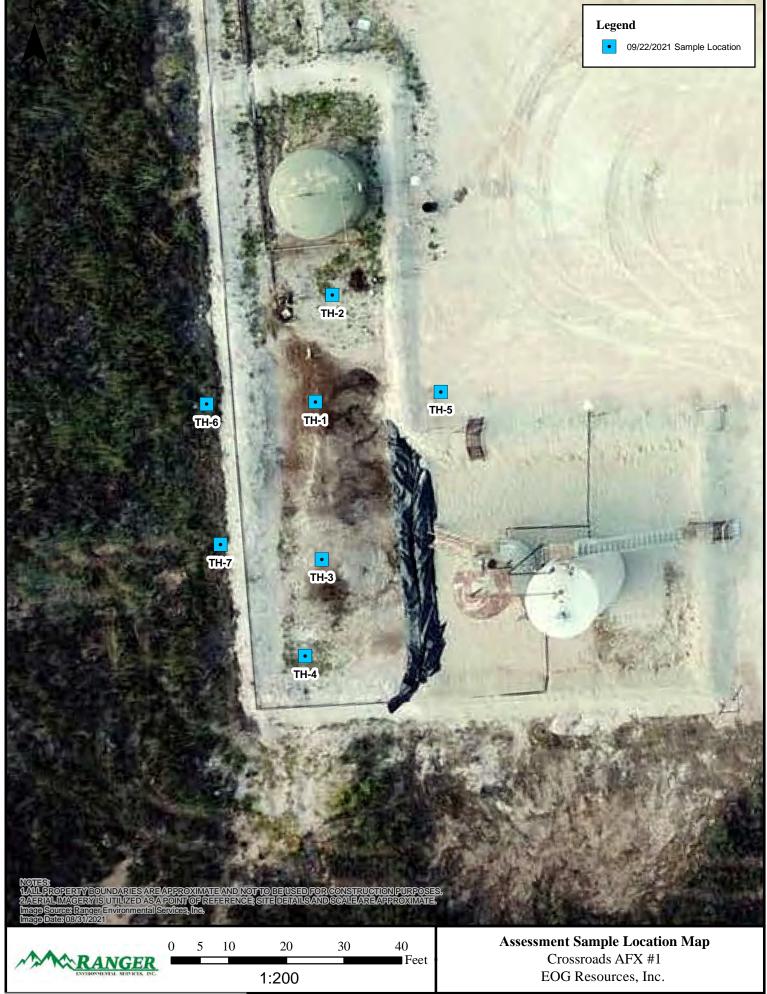


Received by OCD: 1/14/2022 10:23:20 AM









TABLES

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

				All valı	ies presente	d in parts per	million (mo	ı/Ka)					
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)	СНГС
ember 22, 2021 Soil Sa	mples		1	1	1					1	1		
TH-1/5'	9/22/2021	5'	6.3	35	21	58	120.3	2,000	1,900	3,300	3,900	7,200	<
TH-1/9'	9/22/2021	9'	4.6	21	14	38	77.6	1,600	5,300	2,800	6,900	9,700	•
TH-1/17'	9/22/2021	17'	<0.12	<0.23	<0.23	<0.47	<0.47	<23	87	86	87	173	•
TH-1/19'	9/22/2021	19'	<0.12	<0.24	<0.24	<0.48	<0.48	<24	74	55	74	129	
TH-2/1'	9/22/2021	1'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	99	340	99	439	<u> </u>
TH-2/3'	9/22/2021	3'	<0.024	<0.049	<0.049	<0.095	<0.10	<4.9	160	530	160	690	
TH-2/6'	9/22/2021	6'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	90	350	90	440	
T U 0/0	0/00/0004	01		0.4	0.7		50.0	4 000	44.000	7 000	40.000	00.000	
TH-3/0'	9/22/2021	0' 4'	1.1	8.1	3.7	38 <0.099	50.9	1,800	11,000	7,800	12,800	20,600	
TH-3/4' TH-3/6'	9/22/2021 9/22/2021	6'	<0.025 <0.024	<0.049 <0.047	<0.049 <0.047	<0.099	<0.10 <0.09	<4.9 <4.7	1,000 <8.8	1,700 <44	1,000 <8.8	<mark>2,800</mark> <44	
TH-4/1'	9/22/2021	1'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<7.9	<40	<7.9	<40	
TH-4/4'	9/22/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.7	<49	<9.7	<49	
TH-4/6'	9/22/2021	6'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	
TH-5/1'	9/22/2021	1'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	790	2,000	790	2,790	
TH-5/4'	9/22/2021	4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.0	<45	<9.0	<45	
TH-5/6'	9/22/2021	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.3	<47	<9.3	<47	
TH-6/1'	9/22/2021	1'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<9.4	<47	<9.4	<47	
TH-6/4'	9/22/2021	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<9.7	<48	<9.7	<48	
TH-6/6'	9/22/2021	6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<8.8	<44	<8.8	<44	
TH-7/1'	9/22/2021	1'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<9.7	<48	<9.7	<48	1
TH-7/4'	9/22/2021	4'	<0.023	<0.047	<0.047	<0.095	<0.09	<4.7	<8.2	<41	<8.2	<41	
TH-7/6'	9/22/2021	6'	<0.024	<0.049	<0.049	<0.099	<0.10	<4.9	<9.9	<49	<9.9	<49	
15.29.12 NMAC Table 1 Impacted by a Rel			10				50				1,000	2,500	10
19.15.29.13 NMAC F (0'-4' So	Reclamation Crit ils Only)	eria	10 ³				50 ³					100 ³	(

3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of the Spill Rule (19.15.29 NMAC) dated September 6, 2019.

ATTACHMENT 1

PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH NO. 1 – A view of the Site during the June 21, 2021 site inspection. The view is towards the southeast.

(Approximate GPS: 33.687332, -103.343666)



PHOTOGRAPH NO. 2 – A view of the Site during the September 22, 2021 assessment activities. The view is towards the southwest.



PHOTOGRAPH NO. 3 – A view of the hand auger assessment activities on September 22, 2021. The view is towards the southwest. (Approximate GPS: 33.687246, -103.343667)

ATTACHMENT 2

LABORATORY ANALYTICAL REPORTS



October 05, 2021

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

OrderNo.: 2109C67

RE: Cross Roads AFX 1

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 22 sample(s) on 9/23/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-1/5'									
Project: Cross Roads AFX 1	Collection Date: 9/22/2021 8:44:00 AM									
Lab ID: 2109C67-001	Matrix: SOIL		23/2021 7:30:00 AM							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analys	t: VP			
Chloride	ND	60		mg/Kg	20	9/29/2021 4:53:38 AM	62881			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analys	t: SB			
Diesel Range Organics (DRO)	1900	470		mg/Kg	50	9/24/2021 2:57:22 PM	62795			
Motor Oil Range Organics (MRO)	3300	2300		mg/Kg	50	9/24/2021 2:57:22 PM	62795			
Surr: DNOP	0	70-130	S	%Rec	50	9/24/2021 2:57:22 PM	62795			
EPA METHOD 8015D: GASOLINE RANG	GE					Analys	t: mb			
Gasoline Range Organics (GRO)	2000	240		mg/Kg	50	9/24/2021 5:31:00 PM	62793			
Surr: BFB	222	70-130	S	%Rec	50	9/24/2021 5:31:00 PM	62793			
EPA METHOD 8021B: VOLATILES						Analys	t: mb			
Benzene	6.3	1.2		mg/Kg	50	9/24/2021 5:31:00 PM	62793			
Toluene	35	2.4		mg/Kg	50	9/24/2021 5:31:00 PM	62793			
Ethylbenzene	21	2.4		mg/Kg	50	9/24/2021 5:31:00 PM	62793			
Xylenes, Total	58	4.8		mg/Kg	50	9/24/2021 5:31:00 PM	62793			
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	50	9/24/2021 5:31:00 PM	62793			

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

Qualifiers:

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

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

Page 1 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-1/9'								
Project: Cross Roads AFX 1	Collection Date: 9/22/2021 8:51:00 AM								
Lab ID: 2109C67-002	Matrix: SOIL		Received Date: 9/23/2021 7:30:00 A						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analys	t: VP		
Chloride	ND	60		mg/Kg	20	9/29/2021 5:30:53 AM	62881		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analys	t: SB		
Diesel Range Organics (DRO)	5300	480		mg/Kg	50	9/24/2021 3:09:51 PM	62795		
Motor Oil Range Organics (MRO)	2800	2400		mg/Kg	50	9/24/2021 3:09:51 PM	62795		
Surr: DNOP	0	70-130	S	%Rec	50	9/24/2021 3:09:51 PM	62795		
EPA METHOD 8015D: GASOLINE RAM	IGE					Analys	t: mb		
Gasoline Range Organics (GRO)	1600	99		mg/Kg	20	9/24/2021 5:51:00 PM	62793		
Surr: BFB	226	70-130	S	%Rec	20	9/24/2021 5:51:00 PM	62793		
EPA METHOD 8021B: VOLATILES						Analys	t: mb		
Benzene	4.6	0.49		mg/Kg	20	9/24/2021 5:51:00 PM	62793		
Toluene	21	0.99		mg/Kg	20	9/24/2021 5:51:00 PM	62793		
Ethylbenzene	14	0.99		mg/Kg	20	9/24/2021 5:51:00 PM	62793		
Xylenes, Total	38	2.0		mg/Kg	20	9/24/2021 5:51:00 PM	62793		
Surr: 4-Bromofluorobenzene	133	70-130	S	%Rec	20	9/24/2021 5:51:00 PM	62793		

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

Qualifiers:

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

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

Page 2 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-1/17'								
Project: Cross Roads AFX 1	Collection Date: 9/22/2021 9:08:00 AM Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM								
Lab ID: 2109C67-003	Matrix: SOIL		Received Date	e: 9/2	23/2021 /:30:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: VP			
Chloride	ND	60	mg/Kg	20	9/29/2021 5:43:18 AM	62881			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB			
Diesel Range Organics (DRO)	87	10	mg/Kg	1	9/27/2021 9:46:45 PM	62795			
Motor Oil Range Organics (MRO)	86	50	mg/Kg	1	9/27/2021 9:46:45 PM	62795			
Surr: DNOP	96.9	70-130	%Rec	1	9/27/2021 9:46:45 PM	62795			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: mb			
Gasoline Range Organics (GRO)	ND	23	mg/Kg	5	9/24/2021 6:11:00 PM	62793			
Surr: BFB	97.8	70-130	%Rec	5	9/24/2021 6:11:00 PM	62793			
EPA METHOD 8021B: VOLATILES					Analyst	: mb			
Benzene	ND	0.12	mg/Kg	5	9/24/2021 6:11:00 PM	62793			
Toluene	ND	0.23	mg/Kg	5	9/24/2021 6:11:00 PM	62793			
Ethylbenzene	ND	0.23	mg/Kg	5	9/24/2021 6:11:00 PM	62793			
Xylenes, Total	ND	0.47	mg/Kg	5	9/24/2021 6:11:00 PM	62793			
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	5	9/24/2021 6:11:00 PM	62793			

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

Qualifiers:

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 3 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG Project: Cross Roads AFX 1	Client Sample ID: TH-1/19' Collection Date: 9/22/2021 9:10:00 AM Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM							
Lab ID: 2109C67-004								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: VP		
Chloride	ND	60	mg/Kg	20	9/29/2021 5:55:43 AM	62881		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB		
Diesel Range Organics (DRO)	74	9.6	mg/Kg	1	9/27/2021 9:22:18 PM	62795		
Motor Oil Range Organics (MRO)	55	48	mg/Kg	1	9/27/2021 9:22:18 PM	62795		
Surr: DNOP	100	70-130	%Rec	1	9/27/2021 9:22:18 PM	62795		
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst	: mb		
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	9/24/2021 6:30:00 PM	62793		
Surr: BFB	95.4	70-130	%Rec	5	9/24/2021 6:30:00 PM	62793		
EPA METHOD 8021B: VOLATILES					Analyst	: mb		
Benzene	ND	0.12	mg/Kg	5	9/24/2021 6:30:00 PM	62793		
Toluene	ND	0.24	mg/Kg	5	9/24/2021 6:30:00 PM	62793		
Ethylbenzene	ND	0.24	mg/Kg	5	9/24/2021 6:30:00 PM	62793		
Xylenes, Total	ND	0.48	mg/Kg	5	9/24/2021 6:30:00 PM	62793		
Surr: 4-Bromofluorobenzene	84.3	70-130	%Rec	5	9/24/2021 6:30:00 PM	62793		

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

Qualifiers:

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

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

Page 4 of 26

.

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-2/1'								
Project: Cross Roads AFX 1	Collection Date: 9/22/2021 10:17:00 AM								
Lab ID: 2109C67-005	Matrix: SOIL		Received Dat	t e: 9/2	23/2021 7:30:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst:	VP			
Chloride	ND	59	mg/Kg	20	9/29/2021 6:32:57 AM	62881			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	SB			
Diesel Range Organics (DRO)	99	47	mg/Kg	5	9/28/2021 5:15:08 PM	62795			
Motor Oil Range Organics (MRO)	340	240	mg/Kg	5	9/28/2021 5:15:08 PM	62795			
Surr: DNOP	118	70-130	%Rec	5	9/28/2021 5:15:08 PM	62795			
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/25/2021 12:22:17 AM	62793			
Surr: BFB	98.9	70-130	%Rec	1	9/25/2021 12:22:17 AM	62793			
EPA METHOD 8021B: VOLATILES					Analyst:	NSB			
Benzene	ND	0.024	mg/Kg	1	9/25/2021 12:22:17 AM	62793			
Toluene	ND	0.049	mg/Kg	1	9/25/2021 12:22:17 AM	62793			
Ethylbenzene	ND	0.049	mg/Kg	1	9/25/2021 12:22:17 AM	62793			
Xylenes, Total	ND	0.098	mg/Kg	1	9/25/2021 12:22:17 AM	62793			
Surr: 4-Bromofluorobenzene	88.7	70-130	%Rec	1	9/25/2021 12:22:17 AM	62793			

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

Qualifiers:

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

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

Page 5 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG Project: Cross Roads AFX 1	Client Sample ID: TH-2/3' Collection Date: 9/22/2021 10:20:00 AM Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM							
Project:Cross Roads AFX 1Lab ID:2109C67-006								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: VP		
Chloride	ND	60	mg/Kg	20	9/29/2021 6:45:22 AM	62881		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JME		
Diesel Range Organics (DRO)	160	19	mg/Kg	2	9/30/2021 8:14:25 AM	62828		
Motor Oil Range Organics (MRO)	530	97	mg/Kg	2	9/30/2021 8:14:25 AM	62828		
Surr: DNOP	89.5	70-130	%Rec	2	9/30/2021 8:14:25 AM	62828		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/26/2021 3:07:52 PM	62821		
Surr: BFB	102	70-130	%Rec	1	9/26/2021 3:07:52 PM	62821		
EPA METHOD 8021B: VOLATILES					Analyst	: NSB		
Benzene	ND	0.024	mg/Kg	1	9/26/2021 3:07:52 PM	62821		
Toluene	ND	0.048	mg/Kg	1	9/26/2021 3:07:52 PM	62821		
Ethylbenzene	ND	0.048	mg/Kg	1	9/26/2021 3:07:52 PM	62821		
Xylenes, Total	ND	0.095	mg/Kg	1	9/26/2021 3:07:52 PM	62821		
Surr: 4-Bromofluorobenzene	87.5	70-130	%Rec	1	9/26/2021 3:07:52 PM	62821		

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

Qualifiers:

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

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

Page 6 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-2/6'								
Project: Cross Roads AFX 1	Collection Date: 9/22/2021 10:25:00 AM								
Lab ID: 2109C67-007	Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	JMT			
Chloride	ND	60	mg/Kg	20	9/28/2021 10:44:36 PM	62886			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB			
Diesel Range Organics (DRO)	90	20	mg/Kg	2	9/28/2021 5:10:17 PM	62828			
Motor Oil Range Organics (MRO)	350	98	mg/Kg	2	9/28/2021 5:10:17 PM	62828			
Surr: DNOP	94.7	70-130	%Rec	2	9/28/2021 5:10:17 PM	62828			
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/26/2021 4:18:43 PM	62821			
Surr: BFB	100	70-130	%Rec	1	9/26/2021 4:18:43 PM	62821			
EPA METHOD 8021B: VOLATILES					Analyst	NSB			
Benzene	ND	0.024	mg/Kg	1	9/26/2021 4:18:43 PM	62821			
Toluene	ND	0.048	mg/Kg	1	9/26/2021 4:18:43 PM	62821			
Ethylbenzene	ND	0.048	mg/Kg	1	9/26/2021 4:18:43 PM	62821			
Xylenes, Total	ND	0.096	mg/Kg	1	9/26/2021 4:18:43 PM	62821			
Surr: 4-Bromofluorobenzene	88.1	70-130	%Rec	1	9/26/2021 4:18:43 PM	62821			

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

Qualifiers:

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

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

Page 7 of 26

.

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-3/0'									
Project: Cross Roads AFX 1	Collection Date: 9/22/2021 9:41:00 AM									
Lab ID: 2109C67-008	Matrix: SOIL		Recei	ved Dat	e: 9/2	3/2021 7:30:00 AM				
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	ЈМТ			
Chloride	210	60		mg/Kg	20	9/28/2021 11:21:49 PM	62886			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	SB			
Diesel Range Organics (DRO)	11000	980		mg/Kg	100	9/27/2021 2:57:31 PM	62828			
Motor Oil Range Organics (MRO)	7800	4900		mg/Kg	100	9/27/2021 2:57:31 PM	62828			
Surr: DNOP	0	70-130	S	%Rec	100	9/27/2021 2:57:31 PM	62828			
EPA METHOD 8015D: GASOLINE RAM	IGE					Analyst	NSB			
Gasoline Range Organics (GRO)	1800	250		mg/Kg	50	9/26/2021 5:29:09 PM	62821			
Surr: BFB	204	70-130	S	%Rec	50	9/26/2021 5:29:09 PM	62821			
EPA METHOD 8021B: VOLATILES						Analyst	NSB			
Benzene	1.1	0.98		mg/Kg	50	9/26/2021 5:29:09 PM	62821			
Toluene	8.1	2.5		mg/Kg	50	9/26/2021 5:29:09 PM	62821			
Ethylbenzene	3.7	2.5		mg/Kg	50	9/26/2021 5:29:09 PM	62821			
Xylenes, Total	38	4.9		mg/Kg	50	9/26/2021 5:29:09 PM	62821			
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	50	9/26/2021 5:29:09 PM	62821			

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

Qualifiers:

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

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

Page 8 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-3/4'									
Project: Cross Roads AFX 1	Collection Date: 9/22/2021 9:52:00 AM									
Lab ID: 2109C67-009	Matrix: SOIL									
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst:	ЈМТ			
Chloride	470	60		mg/Kg	20	9/28/2021 11:59:01 PM	62886			
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst:	SB			
Diesel Range Organics (DRO)	1000	93		mg/Kg	10	9/28/2021 5:47:27 PM	62828			
Motor Oil Range Organics (MRO)	1700	460		mg/Kg	10	9/28/2021 5:47:27 PM	62828			
Surr: DNOP	0	70-130	S	%Rec	10	9/28/2021 5:47:27 PM	62828			
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst:	NSB			
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/26/2021 5:52:36 PM	62821			
Surr: BFB	99.1	70-130		%Rec	1	9/26/2021 5:52:36 PM	62821			
EPA METHOD 8021B: VOLATILES						Analyst:	NSB			
Benzene	ND	0.025		mg/Kg	1	9/26/2021 5:52:36 PM	62821			
Toluene	ND	0.049		mg/Kg	1	9/26/2021 5:52:36 PM	62821			
Ethylbenzene	ND	0.049		mg/Kg	1	9/26/2021 5:52:36 PM	62821			
Xylenes, Total	ND	0.099		mg/Kg	1	9/26/2021 5:52:36 PM	62821			
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	1	9/26/2021 5:52:36 PM	62821			

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

Qualifiers:

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

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

Page 9 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-3/6'								
Project: Cross Roads AFX 1	Collection Date: 9/22/2021 9:55:00 AM								
Lab ID: 2109C67-010	Matrix: SOIL		Received Dat	e: 9/2	23/2021 7:30:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	: JMT			
Chloride	680	60	mg/Kg	20	9/29/2021 12:11:26 AM	62886			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	SB			
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	9/27/2021 5:04:19 PM	62828			
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	9/27/2021 5:04:19 PM	62828			
Surr: DNOP	103	70-130	%Rec	1	9/27/2021 5:04:19 PM	62828			
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/26/2021 6:16:01 PM	62821			
Surr: BFB	98.5	70-130	%Rec	1	9/26/2021 6:16:01 PM	62821			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Benzene	ND	0.024	mg/Kg	1	9/26/2021 6:16:01 PM	62821			
Toluene	ND	0.047	mg/Kg	1	9/26/2021 6:16:01 PM	62821			
Ethylbenzene	ND	0.047	mg/Kg	1	9/26/2021 6:16:01 PM	62821			
Xylenes, Total	ND	0.094	mg/Kg	1	9/26/2021 6:16:01 PM	62821			
Surr: 4-Bromofluorobenzene	86.4	70-130	%Rec	1	9/26/2021 6:16:01 PM	62821			

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

Qualifiers:

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

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

Page 10 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-4/1'						
Project: Cross Roads AFX 1	Collection Date: 9/22/2021 11:06:00 AM						
Lab ID: 2109C67-011	Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	JMT	
Chloride	ND	60	mg/Kg	20	9/29/2021 12:23:51 AM	62886	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB	
Diesel Range Organics (DRO)	ND	7.9	mg/Kg	1	9/27/2021 5:28:08 PM	62828	
Motor Oil Range Organics (MRO)	ND	40	mg/Kg	1	9/27/2021 5:28:08 PM	62828	
Surr: DNOP	99.7	70-130	%Rec	1	9/27/2021 5:28:08 PM	62828	
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/26/2021 6:39:32 PM	62821	
Surr: BFB	102	70-130	%Rec	1	9/26/2021 6:39:32 PM	62821	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.024	mg/Kg	1	9/26/2021 6:39:32 PM	62821	
Toluene	ND	0.048	mg/Kg	1	9/26/2021 6:39:32 PM	62821	
Ethylbenzene	ND	0.048	mg/Kg	1	9/26/2021 6:39:32 PM	62821	
Xylenes, Total	ND	0.096	mg/Kg	1	9/26/2021 6:39:32 PM	62821	
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	9/26/2021 6:39:32 PM	62821	

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

Qualifiers:

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

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

Page 11 of 26

.

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-4/4'						
Project: Cross Roads AFX 1		(Collection Dat	e: 9/2	22/2021 11:09:00 AM		
Lab ID: 2109C67-012	Matrix: SOIL		Received Dat	e: 9/2	23/2021 7:30:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ	
Chloride	ND	61	mg/Kg	20	9/29/2021 12:36:15 AM	62886	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/27/2021 5:51:57 PM	62828	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/27/2021 5:51:57 PM	62828	
Surr: DNOP	96.3	70-130	%Rec	1	9/27/2021 5:51:57 PM	62828	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/26/2021 9:00:40 PM	62821	
Surr: BFB	102	70-130	%Rec	1	9/26/2021 9:00:40 PM	62821	
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
Benzene	ND	0.024	mg/Kg	1	9/26/2021 9:00:40 PM	62821	
Toluene	ND	0.048	mg/Kg	1	9/26/2021 9:00:40 PM	62821	
Ethylbenzene	ND	0.048	mg/Kg	1	9/26/2021 9:00:40 PM	62821	
Xylenes, Total	ND	0.096	mg/Kg	1	9/26/2021 9:00:40 PM	62821	
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	9/26/2021 9:00:40 PM	62821	

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG		Cl	ient Sample II	D: TH	H-4/6'	
Project: Cross Roads AFX 1		(Collection Dat	e: 9/2	22/2021 11:15:00 AM	
Lab ID: 2109C67-013	Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	9/29/2021 1:13:27 AM	62886
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/27/2021 6:15:43 PM	62828
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/27/2021 6:15:43 PM	62828
Surr: DNOP	95.6	70-130	%Rec	1	9/27/2021 6:15:43 PM	62828
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/26/2021 9:24:14 PM	62821
Surr: BFB	102	70-130	%Rec	1	9/26/2021 9:24:14 PM	62821
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	9/26/2021 9:24:14 PM	62821
Toluene	ND	0.049	mg/Kg	1	9/26/2021 9:24:14 PM	62821
Ethylbenzene	ND	0.049	mg/Kg	1	9/26/2021 9:24:14 PM	62821
Xylenes, Total	ND	0.098	mg/Kg	1	9/26/2021 9:24:14 PM	62821
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	9/26/2021 9:24:14 PM	62821

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

Qualifiers:

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

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

Page 13 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG Project: Cross Roads AFX 1	Client Sample ID: TH-5/1' Collection Date: 9/22/2021 11:34:00 AM Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM						
Lab ID: 2109C67-014							
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	JMT
Chloride	ND	60		mg/Kg	20	9/29/2021 1:25:52 AM	62886
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS					Analyst	SB
Diesel Range Organics (DRO)	790	88		mg/Kg	10	9/28/2021 4:45:11 PM	62828
Motor Oil Range Organics (MRO)	2000	440		mg/Kg	10	9/28/2021 4:45:11 PM	62828
Surr: DNOP	0	70-130	S	%Rec	10	9/28/2021 4:45:11 PM	62828
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/26/2021 9:47:48 PM	62821
Surr: BFB	101	70-130		%Rec	1	9/26/2021 9:47:48 PM	62821
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.023		mg/Kg	1	9/26/2021 9:47:48 PM	62821
Toluene	ND	0.047		mg/Kg	1	9/26/2021 9:47:48 PM	62821
Ethylbenzene	ND	0.047		mg/Kg	1	9/26/2021 9:47:48 PM	62821
Xylenes, Total	ND	0.093		mg/Kg	1	9/26/2021 9:47:48 PM	62821
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	9/26/2021 9:47:48 PM	62821

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

Qualifiers:

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

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

Page 14 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG		Cl	ient Sample I	D: TH	H-5/4'		
Project: Cross Roads AFX 1		(Collection Dat	e: 9/2	22/2021 11:36:0	0 AM	
Lab ID: 2109C67-015	Matrix: SOIL		Received Dat	e: 9/2	23/2021 7:30:00	AM	
Analyses	Result	RL	Qual Units	DF	Date Analyze	d	Batch
EPA METHOD 300.0: ANIONS						Analyst:	JMT
Chloride	ND	60	mg/Kg	20	9/29/2021 1:38:	16 AM	62886
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	9/27/2021 6:39:	27 PM	62828
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	9/27/2021 6:39:	27 PM	62828
Surr: DNOP	95.4	70-130	%Rec	1	9/27/2021 6:39:	27 PM	62828
EPA METHOD 8015D: GASOLINE RANG	E					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/26/2021 10:1	1:23 PM	62821
Surr: BFB	101	70-130	%Rec	1	9/26/2021 10:1	1:23 PM	62821
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	9/26/2021 10:1	1:23 PM	62821
Toluene	ND	0.048	mg/Kg	1	9/26/2021 10:1	1:23 PM	62821
Ethylbenzene	ND	0.048	mg/Kg	1	9/26/2021 10:1	1:23 PM	62821
Xylenes, Total	ND	0.095	mg/Kg	1	9/26/2021 10:1	1:23 PM	62821
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	9/26/2021 10:1	1:23 PM	62821

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

Qualifiers:

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

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

Page 15 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-5/6'						
Project: Cross Roads AFX 1		(Collection Dat	e: 9/2	22/2021 11:39:00 AM		
Lab ID: 2109C67-016	Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	JMT	
Chloride	ND	60	mg/Kg	20	9/29/2021 1:50:40 AM	62886	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	9/27/2021 7:03:11 PM	62828	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/27/2021 7:03:11 PM	62828	
Surr: DNOP	93.2	70-130	%Rec	1	9/27/2021 7:03:11 PM	62828	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/26/2021 10:35:01 PM	62821	
Surr: BFB	101	70-130	%Rec	1	9/26/2021 10:35:01 PM	62821	
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
Benzene	ND	0.024	mg/Kg	1	9/26/2021 10:35:01 PM	62821	
Toluene	ND	0.048	mg/Kg	1	9/26/2021 10:35:01 PM	62821	
Ethylbenzene	ND	0.048	mg/Kg	1	9/26/2021 10:35:01 PM	62821	
Xylenes, Total	ND	0.097	mg/Kg	1	9/26/2021 10:35:01 PM	62821	
Surr: 4-Bromofluorobenzene	89.2	70-130	%Rec	1	9/26/2021 10:35:01 PM	62821	

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

Qualifiers:

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

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

RL Reporting Limit

Page 16 of 26

.

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG		Cl	ient Sample II	D: TH	H-6/1'	
Project: Cross Roads AFX 1		(Collection Dat	e:9/2	22/2021 12:09:00 PM	
Lab ID: 2109C67-017	Matrix: SOIL		Received Dat	e: 9/2	23/2021 7:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	59	mg/Kg	20	9/29/2021 2:03:04 AM	62886
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	9/27/2021 3:26:52 PM	62828
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/27/2021 3:26:52 PM	62828
Surr: DNOP	97.0	70-130	%Rec	1	9/27/2021 3:26:52 PM	62828
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/26/2021 10:58:36 PM	1 62821
Surr: BFB	101	70-130	%Rec	1	9/26/2021 10:58:36 PM	1 62821
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	9/26/2021 10:58:36 PM	1 62821
Toluene	ND	0.047	mg/Kg	1	9/26/2021 10:58:36 PM	1 62821
Ethylbenzene	ND	0.047	mg/Kg	1	9/26/2021 10:58:36 PM	1 62821
Xylenes, Total	ND	0.094	mg/Kg	1	9/26/2021 10:58:36 PM	1 62821
Surr: 4-Bromofluorobenzene	88.1	70-130	%Rec	1	9/26/2021 10:58:36 PM	62821

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

Qualifiers:

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

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

Page 17 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG		Cl	ient Sample II	D: TH	H-6/4'	
Project: Cross Roads AFX 1		(Collection Dat	e: 9/2	22/2021 12:18:00 PM	
Lab ID: 2109C67-018	Matrix: SOIL		Received Dat	e: 9/2	23/2021 7:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JMT
Chloride	ND	60	mg/Kg	20	9/29/2021 2:15:28 AM	62886
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/27/2021 7:26:56 PM	62828
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/27/2021 7:26:56 PM	62828
Surr: DNOP	90.2	70-130	%Rec	1	9/27/2021 7:26:56 PM	62828
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/26/2021 11:22:17 PM	62821
Surr: BFB	101	70-130	%Rec	1	9/26/2021 11:22:17 PM	62821
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	9/26/2021 11:22:17 PM	62821
Toluene	ND	0.047	mg/Kg	1	9/26/2021 11:22:17 PM	62821
Ethylbenzene	ND	0.047	mg/Kg	1	9/26/2021 11:22:17 PM	62821
Xylenes, Total	ND	0.094	mg/Kg	1	9/26/2021 11:22:17 PM	62821
Surr: 4-Bromofluorobenzene	88.8	70-130	%Rec	1	9/26/2021 11:22:17 PM	62821

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

Qualifiers:

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

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

Page 18 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-6/6' Collection Date: 9/22/2021 12:29:00 PM						
Project: Cross Roads AFX 1							
Lab ID: 2109C67-019	Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst:	JMT	
Chloride	ND	59	mg/Kg	20	9/29/2021 2:27:52 AM	62886	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB	
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	9/27/2021 4:14:42 PM	62828	
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	9/27/2021 4:14:42 PM	62828	
Surr: DNOP	97.2	70-130	%Rec	1	9/27/2021 4:14:42 PM	62828	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/26/2021 11:45:51 PM	62821	
Surr: BFB	99.2	70-130	%Rec	1	9/26/2021 11:45:51 PM	62821	
EPA METHOD 8021B: VOLATILES					Analyst	NSB	
Benzene	ND	0.024	mg/Kg	1	9/26/2021 11:45:51 PM	62821	
Toluene	ND	0.048	mg/Kg	1	9/26/2021 11:45:51 PM	62821	
Ethylbenzene	ND	0.048	mg/Kg	1	9/26/2021 11:45:51 PM	62821	
Xylenes, Total	ND	0.097	mg/Kg	1	9/26/2021 11:45:51 PM	62821	
Surr: 4-Bromofluorobenzene	87.7	70-130	%Rec	1	9/26/2021 11:45:51 PM	62821	

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

Qualifiers:

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

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

Page 19 of 26

.

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG	Client Sample ID: TH-7/1'					
Project: Cross Roads AFX 1		(Collection Dat	e: 9/2	22/2021 12:32:00 PM	
Lab ID: 2109C67-020	Matrix: SOIL Received Date: 9/23/2021 7:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	61	mg/Kg	20	9/29/2021 2:40:17 AM	62886
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/27/2021 7:50:43 PM	62828
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/27/2021 7:50:43 PM	62828
Surr: DNOP	98.8	70-130	%Rec	1	9/27/2021 7:50:43 PM	62828
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/27/2021 12:09:23 AM	62821
Surr: BFB	101	70-130	%Rec	1	9/27/2021 12:09:23 AM	62821
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	9/27/2021 12:09:23 AM	62821
Toluene	ND	0.047	mg/Kg	1	9/27/2021 12:09:23 AM	62821
Ethylbenzene	ND	0.047	mg/Kg	1	9/27/2021 12:09:23 AM	62821
Xylenes, Total	ND	0.093	mg/Kg	1	9/27/2021 12:09:23 AM	62821
Surr: 4-Bromofluorobenzene	88.6	70-130	%Rec	1	9/27/2021 12:09:23 AM	62821

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

Qualifiers:

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 20 of 26

.

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG		Cl	ient Sample I	D: TH	H-7/4'	
Project: Cross Roads AFX 1		(Collection Dat	t e: 9/2	22/2021 12:41:00 PM	
Lab ID: 2109C67-021	Matrix: SOIL		Received Dat	t e: 9/2	23/2021 7:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ
Chloride	ND	60	mg/Kg	20	9/29/2021 2:52:42 AM	62886
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	8.2	mg/Kg	1	9/27/2021 8:14:28 PM	62828
Motor Oil Range Organics (MRO)	ND	41	mg/Kg	1	9/27/2021 8:14:28 PM	62828
Surr: DNOP	94.1	70-130	%Rec	1	9/27/2021 8:14:28 PM	62828
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/27/2021 12:32:52 AM	62821
Surr: BFB	102	70-130	%Rec	1	9/27/2021 12:32:52 AM	62821
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	9/27/2021 12:32:52 AM	62821
Toluene	ND	0.047	mg/Kg	1	9/27/2021 12:32:52 AM	62821
Ethylbenzene	ND	0.047	mg/Kg	1	9/27/2021 12:32:52 AM	62821
Xylenes, Total	ND	0.095	mg/Kg	1	9/27/2021 12:32:52 AM	62821
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	9/27/2021 12:32:52 AM	62821

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

Qualifiers:

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

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

Page 21 of 26

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2109C67

Date Reported: 10/5/2021

CLIENT: EOG		Cl	ient Sample II	D: TH	I-7/6'	
Project: Cross Roads AFX 1		(Collection Dat	e: 9/2	22/2021 12:47:00 PM	
Lab ID: 2109C67-022	Matrix: SOIL		Received Dat	e: 9/2	23/2021 7:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	9/29/2021 3:05:06 AM	62886
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/27/2021 8:38:13 PM	62828
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/27/2021 8:38:13 PM	62828
Surr: DNOP	90.4	70-130	%Rec	1	9/27/2021 8:38:13 PM	62828
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/27/2021 1:19:49 AM	62821
Surr: BFB	105	70-130	%Rec	1	9/27/2021 1:19:49 AM	62821
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	9/27/2021 1:19:49 AM	62821
Toluene	ND	0.049	mg/Kg	1	9/27/2021 1:19:49 AM	62821
Ethylbenzene	ND	0.049	mg/Kg	1	9/27/2021 1:19:49 AM	62821
Xylenes, Total	ND	0.099	mg/Kg	1	9/27/2021 1:19:49 AM	62821
Surr: 4-Bromofluorobenzene	92.3	70-130	%Rec	1	9/27/2021 1:19:49 AM	62821

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

Qualifiers:

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

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

RL Reporting Limit Page 22 of 26

QC SUMMARY REPORT Hall Env

	WO#:	2109C67	
vironmental Analysis Laboratory, Inc.		05-Oct-21	

Client: Project:	EOG Cross R	oads AFX 1			
Sample ID:	MB-62886	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 62886	RunNo: 81636		
Prep Date:	9/28/2021	Analysis Date: 9/28/2021	SeqNo: 2885287	Units: mg/Kg	
Analyte Chloride		Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Sample ID:	LCS-62886	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 62886	RunNo: 81636		
Prep Date:	9/28/2021	Analysis Date: 9/28/2021	SeqNo: 2885288	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 95.8 90	110	
Sample ID:	MB-62881	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 62881	RunNo: 81605		
Prep Date:	9/28/2021	Analysis Date: 9/29/2021	SeqNo: 2886065	Units: mg/Kg	
Analyte Chloride		Result PQL SPK value ND 1.5	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
	LCS-62881	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID:		Batch ID: 62881	RunNo: 81605		
Prep Date:	9/28/2021	Analysis Date: 9/29/2021	SeqNo: 2886066	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 96.1 90	110	

Qualifiers:

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

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

Page 23 of 26

QC SUMMARY REPORT Hall

	WO#:	2109C67
l Environmental Analysis Laboratory, Inc.		05-Oct-21

Client: EO Project: Cro	G oss Roads AFX 1	
Sample ID: MB-62795	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 62795	RunNo: 81548
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2881822 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MF	RO) ND 50	
Surr: DNOP	11 10.00	0 107 70 130
Sample ID: LCS-62795	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 62795	RunNo: 81548
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2881823 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	50 10 50.00	0 0 99.2 68.9 135
Surr: DNOP	4.8 5.000	0 96.4 70 130
Sample ID: MB-62828	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 62828	RunNo: 81612
Prep Date: 9/24/2021	Analysis Date: 9/27/2021	SeqNo: 2884782 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)		
Motor Oil Range Organics (MF		
Surr: DNOP	9.5 10.00	0 95.5 70 130
Sample ID: LCS-62828	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 62828	RunNo: 81612
Prep Date: 9/24/2021	Analysis Date: 9/27/2021	SeqNo: 2884783 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	45 10 50.00	0 0 89.3 68.9 135
Surr: DNOP	4.7 5.000	0 94.2 70 130

Qualifiers:

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

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

RL Reporting Limit EOG

Client:

Project:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Cross Roads AFX 1

•										
Sample ID: Ics-62793	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	n ID: 62	793	F	RunNo: 8 '	1547				
Prep Date: 9/23/2021	Analysis D	0ate: 9 /	24/2021	S	SeqNo: 2	881959	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	78.6	131			
Surr: BFB	1000		1000		101	70	130			
Sample ID: mb-62793	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	n ID: 62	793	F	RunNo: 8 '	1547				
Prep Date: 9/23/2021	Analysis D)ate: 9 /	24/2021	S	SeqNo: 2	881960	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
7 mary to										
,	ND	5.0								
Gasoline Range Organics (GRO) Surr: BFB	ND 960	5.0	1000		95.6	70	130			
Gasoline Range Organics (GRO)	960	5.0 ⁻ ype: ME		Tes			130 8015D: Gaso	line Rang	e	
Gasoline Range Organics (GRO) Surr: BFB	960 SampT		BLK			PA Method		line Rang	e	
Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-62821	960 SampT	ype: ME 1 ID: 62	3LK 821	F	tCode: El	PA Method		0	e	
Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-62821 Client ID: PBS	960 SampT Batch	ype: ME 1 ID: 62	3LK 821 26/2021	F	tCode: El RunNo: 8 SeqNo: 2	PA Method 1561 882172	8015D: Gaso	0	e RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-62821 Client ID: PBS Prep Date: 9/24/2021 Analyte	960 SampT Batch Analysis D	ype: ME Di ID: 62 Date: 9/	3LK 821 26/2021	F	tCode: El RunNo: 8 SeqNo: 2	PA Method 1561 882172	8015D: Gaso Units: mg/K	g		Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-62821 Client ID: PBS Prep Date: 9/24/2021	960 SampT Batch Analysis D Result	⁻ ype: ME n ID: 62 Date: 9 / PQL	3LK 821 26/2021	F	tCode: El RunNo: 8 SeqNo: 2	PA Method 1561 882172	8015D: Gaso Units: mg/K	g		Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-62821 Client ID: PBS Prep Date: 9/24/2021 Analyte Gasoline Range Organics (GRO)	960 SampT Batch Analysis D Result ND 1000	⁻ ype: ME n ID: 62 Date: 9 / PQL	3LK 821 26/2021 SPK value 1000	F SPK Ref Val	tCode: EF RunNo: 8 SeqNo: 2 %REC 100	PA Method 1561 882172 LowLimit 70	8015D: Gaso Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-62821 Client ID: PBS Prep Date: 9/24/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB	960 SampT Batch Analysis D Result ND 1000 SampT	Type: ME n ID: 62 Date: 9 / PQL 5.0	BLK 821 26/2021 SPK value 1000	F SPK Ref Val Tes	tCode: EF RunNo: 8 SeqNo: 2 %REC 100	PA Method 1561 382172 LowLimit 70 PA Method	8015D: Gaso Units: mg/K HighLimit 130	g %RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-62821 Client ID: PBS Prep Date: 9/24/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: Ics-62821	960 SampT Batch Analysis D Result ND 1000 SampT	ype: ME n ID: 62 Date: 9 / PQL 5.0	3LK 821 26/2021 SPK value 1000 SS 821	F SPK Ref Val Tes F	tCode: EF RunNo: 8 SeqNo: 2 %REC 100 tCode: EF	PA Method 1561 882172 LowLimit 70 PA Method 1561	8015D: Gaso Units: mg/K HighLimit 130	g %RPD line Rang	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-62821 Client ID: PBS Prep Date: 9/24/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: Ics-62821 Client ID: LCSS	960 SampT Batch Analysis D Result ND 1000 SampT Batch	ype: ME n ID: 62 Date: 9 / PQL 5.0	3LK 821 26/2021 SPK value 1000 SS 821 26/2021	F SPK Ref Val Tes F	tCode: El RunNo: 8 SeqNo: 2 %REC 100 tCode: El RunNo: 8 SeqNo: 2	PA Method 1561 382172 LowLimit 70 PA Method 1561 382173	8015D: Gaso Units: mg/K HighLimit 130 8015D: Gaso	g %RPD line Rang	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB Sample ID: mb-62821 Client ID: PBS Prep Date: 9/24/2021 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: Ics-62821 Client ID: LCSS Prep Date: 9/24/2021	960 SampT Batch Analysis D Result ND 1000 SampT Batch Analysis D	Type: ME n ID: 62 Date: 9/ PQL 5.0 Type: LC n ID: 62 Date: 9/	3LK 821 26/2021 SPK value 1000 SS 821 26/2021	F SPK Ref Val Tes F S	tCode: El RunNo: 8 SeqNo: 2 %REC 100 tCode: El RunNo: 8 SeqNo: 2	PA Method 1561 382172 LowLimit 70 PA Method 1561 382173	8015D: Gaso Units: mg/K HighLimit 130 8015D: Gaso Units: mg/K	g %RPD line Rang	RPDLimit e	

Qualifiers:

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

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

Page 25 of 26

WO#: 2109C67 05-Oct-21

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2109C67
	05-Oct-21

Client: EOG Project: Cross	Roads AFX 1									
Sample ID: Ics-62793	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS		ID: 627			RunNo: 8					
Prep Date: 9/23/2021	Analysis Da				SeqNo: 2		Units: mg/K	a		
							-	-		A 1
Analyte Benzene	Result 0.88	PQL 0.025	SPK value 1.000	SPK Ref Val 0	%REC 87.9	LowLimit 80	HighLimit 120	%RPD	RPDLimit	Qual
Toluene	0.89	0.025	1.000	0	89.1	80 80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.4	80	120			
Surr: 4-Bromofluorobenzene	0.79		1.000		78.9	70	130			
Sample ID: mb-62793	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 627	793	F	RunNo: 8	1547				
Prep Date: 9/23/2021	Analysis Da	te: 9 /2	24/2021	S	SeqNo: 2	881995	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.81		1.000		81.0	70	130			
Sample ID: mb-62821	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 628	321	F	RunNo: 8	1561				
Prep Date: 9/24/2021	Analysis Da	te: 9/2	26/2021	S	SeqNo: 2	882203	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.025								
Toluene		0.050								
Ethylbenzene		0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	70	130			
Sample ID: LCS-62821	SampTy						8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 628	321	F	RunNo: 8	1561				
Prep Date: 9/24/2021	Analysis Da	te: 9/2	26/2021	S	SeqNo: 2	882204	Units: mg/K	g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.025	1.000	0	88.2	80	120			
Toluene		0.050	1.000	0	91.1	80	120			
Ethylbenzene		0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.7	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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

HAI EN AN	1/14/2022 10 LL VIRONMENT ALYSIS BORATORY		TE	ll Environmei L: 505-345-3 'ebsite: client	490 Albuquero 975 FAX:	01 Hawk Jue, NM 505-34	kins NE 1 87109 15-4107	Sar	Pag	
Client Name	EOG		Work	Order Num	ber: 210	9C67			RcptNo: 1	•
Received By	Cheyenne	e Cason	9/23/20	21 7:30:00	AM		ch	l	, not	
Completed E	y: Sean Livi	ngston	9/23/20	21 8:38:54	AM		<	- /	· /	
Reviewed By	HPG	9/23/	21))~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Jan-	
Chain of C	ustody									
1. Is Chain c	f Custody comp	lete?			Yes		Ν	lo 🗌	Not Present	
2. How was	the sample deliv	vered?			Cou	rier				
Log In										
	tempt made to	cool the sample	s?		Yes	V	N	•		
	onder Aller ander and							-		
4. Were all sa	amples received	l at a temperatu	re of >0° C	to 6.0°C	Yes		N	o 🗌		
5. Sample(s)	in proper conta	iner(s)?			Yes		N	o 🗌		
6. Sufficient s	ample volume f	for indicated test	t(s)?		Yes		N	b		
		and ONG) prop		ed?	Yes		N	b		
	rvative added to		01101010		Yes				NA 🗌	
9. Received a	it least 1 vial wit	h headspace <1	/4" for AQ \	/OA?	Yes		N		NA 🗸	
		ers received bro			Yes	\Box		• •		
									# of preserved bottles checked	/
	rwork match bo epancies on ch				Yes	\checkmark	N	•	for pH: (<2 or >12 unless noted)	
		tified on Chain	of Custody?		Yes		N		Adjusted?	
	hat analyses w		of ouslody?		Yes		N	1.2.2	/	1
14. Were all ho	olding times able	e to be met?			Yes		N	-	Checked by: JR9 23	12
(If no, notif	y customer for a	authorization.)						/		
Special Har	dling (if app	olicable)								
15. Was client	notified of all d	iscrepancies wit	h this order?	>	Yes		N	o 🗌	NA 🔽	
Pers	on Notified:	1		Date:	5					
By V	Vhom:			Via:	eM	ail 🗌	Phone [Fax	In Person	
Reg	arding:	1								
Clier	nt Instructions:									
16. Additional	remarks:									
17. Cooler In	formation									
Cooler	Construction of the process of the local sector	and the second sec	Seal Intact	Seal No	Seal D	ate	Signed	в Ву		
1	2.6 2.9	Good								
-	2.0	0000								

Page 1 of 1

Client: EOG-Artesia / Ranger Env.	Artesia / Ra	EOG-Artesia / Ranger Env.			Sour		Ц	HALL ENVIRONMENTAL	ENTAL
			🗵 Standard	C Rush		L	F	ANALYSTS LABORATORY	ATORY
			Project Nam	Project Name: CLOSS ROADS AFX	S AFX HI			www.hallenvironmental.com	
Mailing Addres	s: EOG - 10	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210					1901 Hawk	4901 Hawkins NE - Albumineration NM 87109	a
Ranger: PO Bc	x 201179, A	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	75		_	Tel. 505-345-3975	45-3975 Fax 505-345-4107	
Phone #: 521-335-1785	-335-1785							Analysis	The second second
email or Fax#: Will@RangerEnv.com	t: Will@Ran	igerEnv.com	Project Mana	Project Manager: W. Kierdorf	dorf				
QA/QC Package:		Level 4 (Full Validation)							
Accreditation:		Az Compliance	in.	126 RODDE					
INELAC	-		On Ice:	M Yes	O No				
EDD (Type)	e) Excel		# of Coolers: 2	2 2	7-0.1= 2.6				
			Cooler Temp	m	0-0.1229				
Date Time	e Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. ZLOOLCANT	8) X∃T8	TPH:801 Chloride		
7/22/21 0844	7205 7	TH-1/51	1 + 402 500	nt	18	X	×		
0821		, b/1-H1	1	-	200	-	1		
8060	9	TH-1/17'			200				
0160		TH-1/19			7A				
1017		TH-3/1'			500				
0701		TM-3/3"			200				
10.35		TH-2/61			400				
1460	1 1	TH-3/0'			800				
0952	-	TM-3/4'			ban				
0955		TH-3/6'			010				
1105		TH-4/1"			BIL				
1109	-1	TH-4/4'	-1	-1	212	-1	-1		
-	Relinquished by:	ed by:	Received by:	Via:		Rema	ks: Bill to I	Remarks: Bill to EOG Artesia	
21	1		WUUN	SAN	2501 10/02	2			
	Relinquished by:	ed by:	Received by:	Via:					
1444 1200	N I	VY VY	0 M	Parmer 9	416314 0230				

Received by OCD: 1/14/2022 10:23:20 AM

Released to Imaging: 2/3/2022 9:13:46 AM

0	hain	1-of-CI	Chain-of-Custody Record	Turn-Around Time:	Time:				S.
Client:	EOG-Ar	rtesia / Ra	Client: EOG-Artesia / Ranger Env.	Standard	C Rush	S row		AALL ENVIRONMENTAL ANAI YSTS I ARODATODY	
				Project Name:	S. CLOSS PROADS AFX	AFX #1		www.hallenvironmental.com	
Mailing	Address:	EOG - 10	Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210	1			4901 Hawkins NF	4901 Hawkins NF - Alburnerana NM 87109	
Ranger	PO Box	201179, 4	Ranger: PO Box 201179, Austin TX 78720	Project #: 5375	75		Tel. 505-345-3975	Fax 505-345-4107	
Phone	#: 521-3	Phone #: 521-335-1785					4	Analysis Request	
email c	r Fax#:	Will@Rar	email or Fax#: Will@RangerEnv.com	Project Mana	Project Manager: W. Kierdorf	dorf	(-
QA/QC Packag	QA/QC Package:	9	Level 4 (Full Validation)				0ЯМ \ (
Accreditation:	itation:	D Az Co	□ Az Compliance	Sampler: Lo	וכבריסט ער				
I NELAC	AC			On Ice:	A Yes	ON D	_		_
	EDD (Type)	Excel		# of Coolers:	2 2	7-0.1=2.6	สอ)		-
				Cooler Temp	p(including CF): 3. (7-0.122.9	ISD(
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX ((TPH:80 Chloride		-
1/23/31	5111	SULL	TH-4/6'	1 × 402 JAR	Tel	013	XXX		-
1	11.3华		-1/S-H1			014			-
	1135		, +/5-HL			0(5			1
	1139		TM-5/6'			ola			1
	1300		TM-6/1			510			1
	1218		1H-6/4,			210			1
	1339		TH-6/6'			99			1
	1332		11/1-MI			010			-
	1461		TM-1/4'			25			-
1	1247	-	TN-1/6'	-1	_)	220			
Date:	Time:	Relinquished by:	L led by:	Received by:	Via:	Date Time	Remarks: Bill to EOG Artesia	sia	-
12 hours	1433			GAUL	iss	-6241 12/20/2			
of halp	ale: Time: april (quu	Relinquished by:	led by:	Received by:	Via:	Date Time 0/12.3/14 00730			
	If necessary	y, samples sul	bmitted to Hall Environmental may be sub	contracted to other a	ccredited laboratori	es. This serves as notice of the	nis possibility. Any sub-contracted dat	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 repol	Г

ATTACHMENT 3

WATER WELL RECORDS



National Water Information System: Web Interface USGS Water Resources

Data Category: Geographic Area: United States

✓ G0

USGS Home Contact USGS Search USGS

Click to hideNews 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: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Minimum number of levels = 1 <u>Save file of selected sites</u> to local disk for future upload

USGS 334024103200901 07S.35E.26.333323

Available data for this site Groundwater: Field measurements V GO Roosevelt County, New Mexico Hydrologic Unit Code 12080001 Latitude 33°40'22", Longitude 103°20'22" NAD27 Land-surface elevation 4,187.00 feet above NGVD29 The depth of the well is 75 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

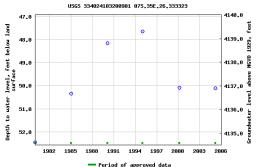
 Output formats

 Table of data

 Tab-separated data

 Graph of data

 Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices <u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-12-29 17:09:49 EST 0.71 0.55 nadww01 USA.gov



National Water Information System: Web Interface USGS Water Resources

United States

 \sim

Site Information

GO \sim

USGS Home Contact USGS Search USGS

Click to hideNews Bulletins

• Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide. Full News

USGS 334114103224701 07S.35E.29.122222

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

Well Site

DESCRIPTION:

CALPTION: Latitude 33°41'11", Longitude 103°22'59" NAD27 Roosevelt County, New Mexico , Hydrologic Unit 12080001 Well depth: not determined. Land surface altitude: 4,228.00 feet above NGVD29. Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer. Well completed in "Ogallala Formation" (1210GLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1980-01-10	1990-02-07	3
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes <u>News</u>

Accessibility FOIA

Accessionicy Police Privacy Policies and Notices U.S. Department of the Interior | U.S. Googlocal Survey Title: NVIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=334114103224701

Page Contact Information: <u>New Mexico Water Data Support Team</u> Page Last Modified: 2021-12-29 17:12:10 EST 0.27 0.26 caww01

USA.gov



National Water Information System: Web Interface USGS Water Resources Search USGS

Data Category: Geographic Area: Groundwater V United States ✓ G0

USGS Home Contact USGS

Click to hideNews 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: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 334203103191701 07S.35E.23.221422

Available data for this site Groundwater: Field measurements V GO Roosevelt County, New Mexico Hydrologic Unit Code 12080001 Latitude 33*42'00", Longitude 103*19'29" NAD27 Land-surface elevation 4,199.00 feet above NGVD29 This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

 Table of data

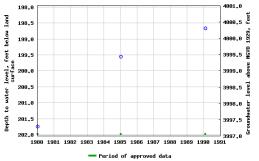
 Table of data

 Graph of data

 Reselect period

 US6S 33420810919701 075,395.23,221422

 198.0



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

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for U.SA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

USA.gov

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-12-29 17:12:36 EST 0.68 0.57 nadww01

ATTACHMENT 4

NMOCD CORRESPONDENCE

Chase Settle

From:	Hamlet, Robert, EMNRD <robert.hamlet@state.nm.us></robert.hamlet@state.nm.us>
Sent:	Friday, September 17, 2021 7:58 AM
То:	Tina Huerta
Cc:	Artesia Regulatory; Chase Settle; Yvette Moore; Ashley Bravo; Bratcher, Mike, EMNRD;
	Hensley, Chad, EMNRD; Velez, Nelson, EMNRD
Subject:	(Extension Approval) Crossroads AFX Federal 1 (nAPP2117330665)
	Characterization/Remediation Plan

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: Incident #NAPP2117330665

Tina,

Your request for an extension to December 17th, 2021 is approved.

Robert Hamlet ● Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | <u>robert.hamlet@state.nm.us</u> <u>http://www.emnrd.state.nm.us/OCD/</u>



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 16, 2021 4:54 PM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>;
Yvette Moore <Yvette_Moore@eogresources.com>; Ashley Bravo <Ashley_Bravo@eogresources.com>
Subject: [EXTERNAL] Crossroads AFX Federal 1 (nAPP2117330665) Characterization/Remediation Plan Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

Received by OCD: 1/14/2022 10:23:20 AM

Please find the Characterization/Remediation Plan Extension Request below.

EOG Resources, Inc. respectfully requests an extension to December 17, 2021, for the Characterization/Remediation Plan for the below listed location. The historically impacted area was located immediately adjacent to the production tanks, so in order to perform delineation activities with machinery, the tanks had to be relocated. Due to the amount of time required for planning and performing the relocation of the tanks, and further delays due to the unseasonal amount Page 62 of 65

of precipitation received in the area, the first delineation activities with machinery are scheduled to occur on Wednesday, September 22, 2021. The environmental consultant performing the remediation at this location believes this should provide enough time to complete the Characterization of the site and develop the Remediation Plan, barring other unforeseen circumstances such as the need for a core rig to complete delineation past the depths that normal dirt moving machinery can reach.

Crossroads AFX Federal #1 30-041-20841 P-22-7S-35E 330 FSL & 990 FEL Roosevelt County, NM nAPP2117330665

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina huerta@eogresources.com</u>

Artesia Division

Chase Settle

From:	Hamlet, Robert, EMNRD <robert.hamlet@state.nm.us></robert.hamlet@state.nm.us>
Sent:	Wednesday, December 22, 2021 10:58 AM
То:	Tina Huerta
Сс:	Artesia Regulatory; Katie Jamison; Chase Settle; Yvette Moore; Ashley Bravo; Bratcher,
Subject:	Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD (Extension Denied) Crossroads AFX Federal 1 (nAPP2117330665)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: Incident #NAPP2117330665

Tina,

An extension for this release has already been granted. Your request for another extension is denied. EOG will have 30 days to submit a remediation/closure plan to the payment portal.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau **EMNRD** - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Tina Huerta <Tina Huerta@eogresources.com> Sent: Tuesday, December 14, 2021 8:50 AM To: Hamlet, Robert, EMNRD < Robert.Hamlet@state.nm.us>; blm_nm_cfo_spill@blm.gov Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Katie Jamison <Katie Jamison@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>; Ashley Bravo <Ashley_Bravo@eogresources.com>

Subject: [EXTERNAL] Crossroads AFX Federal 1 (nAPP2117330665) Characterization-Remediation Plan Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

EOG Resources, Inc. respectfully requests a 60 day extension for the Characterization/Remediation Plan for the below listed location.

Released to Imaging: 2/3/2022 9:13:46 AM

Crossroads AFX Federal #1 nAPP2117330665

AM

The environmental consultant has determined that a core rig will be required to complete full delineation of the impacted area. The core rig has been scheduled for the week of 1/10/2022 and the consultant believes that February 4, 2022, is an attainable timeframe to complete the Characterization/Remediation Plan.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina huerta@eogresources.com</u>



Released to Imaging: 2/3/2022 9:13:46 AM

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	72497
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS Created By Condition Condition Date Your Characterization report has been received by the OCD. According to EOG the hold up to move forward with this site is a drilling rig to drill for depth to 2/3/2022 chensley water that by this report will be ascertained in January. The OCD request that EOG submit a remediation plan and/or a closure report by 02/11/2022. The original start to the incident was 06/21/21. We are past 6 months to remediation this location.

Page 65 of 65

Action 72497