



**SITE CHARACTERIZATION, ASSESSMENT,
AND PROPOSED REMEDIATION PLAN**

**MARTHA AIK FEDERAL CTB
NMOCD INCIDENT ID #nAPP2529355289
32.39954546,-103.74164476
UNIT P, SECTION 11, T22S-R31E
EDDY COUNTY, NEW MEXICO**

PREPARED FOR:

**EOG RESOURCES, INC.
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PREPARED BY:

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RANGER REFERENCE #5375

NOVEMBER 25, 2025

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

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

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

**William Kierdorf, REM
Project Manager**

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SITE CHARACTERIZATION, ASSESSMENT, AND PROPOSED REMEDIATION PLAN

**MARTHA AIK FEDERAL CTB
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32.39954546,-103.74164476
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EDDY COUNTY, NEW MEXICO**

1.0 SITE LOCATION AND BACKGROUND

The Martha AIK Federal CTB (Site) is located on Bureau of Land Management (BLM) property, approximately 22.1 miles northeast of Loving, within Eddy County, New Mexico. The Site is situated in Unit P, Section 11, T22S-R31E at approximate GPS coordinates 32.39954546, -103.74164476. On October 12, 2025, a release was identified originating from a two-inch pressure relief valve on a low-pressure heater located within an earthen-bermed production area in the southwestern portion of the Martha AIK Federal CTB facility.

The incident resulted in the release of approximately four barrels (bbls) of produced water and seven bbls of crude oil. Upon discovery, immediate action was taken to halt the release of fluids. A vacuum truck was mobilized to the site which successfully recovered an estimated two bbls of produced water and three bbls of crude oil. The release primarily affected the interior of the earthen-bermed production containment area, with additional overspray impacting an area immediately west of the facility boundary. The incident was reported to the New Mexico Oil Conservation Division (NMOCD) on October 20, 2025 (NMOCD Incident ID # nAPP2529355289).

EOG Resources, Inc (EOG) has retained Ranger Environmental Services, LLC (Ranger) to assist in the assessment and remediation efforts at the Site. On October 13, 2025, Ranger personnel conducted an inspection of the Site and documented the areas impacted by the release. Ranger personnel returned to the site on October 18 and 19, 2025 and completed assessment activities in the affected area.

This report has been prepared to provide the details of the site characterization and assessment activities and also includes a proposed remediation plan to address the site impacts. A *Topographic Map* and *Area Map* are provided in the *Figures* section which depict the location of the Site and surrounding areas. Additional figures are also provided which illustrate site characterization details, assessment sampling locations, and proposed areas of remediation.

Site Characterization, Assessment, and Proposed Remediation Plan
Martha AIK Federal CTB
EOG Resources, Inc.

2.0 SITE CHARACTERIZATION

2.1 Depth-to-Groundwater

Ranger personnel conducted a review of groundwater data obtained from the U.S. Geological Survey (USGS) and the New Mexico Office of the State Engineer (NMOSE) to assess depth-to-groundwater conditions in the vicinity of the Site. According to the available data, no water wells are reported to be located within a half-mile radius of the Site.

In addition to the USGS and NMOSE data, information from an unrelated release incident (NMOCD Incident ID #nAPP2133638032) located north of the subject site was reviewed. On March 2, 2022, as part of the site characterization activities for that release incident, a depth-to-groundwater investigation boring was installed within a half mile of the subject Site at approximate GPS coordinates 32.4038688, -103.7457492. The boring was completed to a total depth of approximately 105 feet, and was allowed to equilibrate until March 7, 2022 when it was gauged and found to be dry.

Based on the above, the depth-to-groundwater in the area of the Site appears to be greater than 105 feet bgs.

A copy of the referenced depth-to-groundwater investigation boring log is included in Attachment 1. The boring location is illustrated on the *Depth-to-Groundwater Information Location Map* included in the Figures section.

2.2 Wellhead Protection Area

As previously noted, information from the USGS and NMOSE indicate that no water wells are located within a half-mile radius of the Site. Additionally, no known water sources are believed to be located within a half mile of the Site.

Review of the U.S. Fish and Wildlife Service's National Wetlands Inventory (NWI) indicates that the impact area is not located within 300 feet of any mapped wetland features.

The Site is situated outside of the 100-year floodplain and is classified as an area of minimal flood hazard, based on current Federal Emergency Management Agency (FEMA) floodplain mapping.

Geological data indicate that the Site lies within a region designated as having "Low Karst" development potential.

A *National Wetland Inventory Map*, *FEMA Floodplain Map*, and *Karst Topography Map* are provided in the Figures section.

2.3 Distance to Nearest Significance Watercourse

Based on a review of available online resources, no significant watercourses are located within a half-mile radius of the Site.

Site Characterization, Assessment, and Proposed Remediation Plan
 Martha AIK Federal CTB
 EOG Resources, Inc.

2.4 Proposed Site Closure Criteria

Based upon the site characterization details and per NMAC 19.15.29.12, the Site is proposed to be remediated to the 19.15.29.12 NMAC Table 1 (groundwater >100 feet) criteria (Table 1 Criteria). Additionally, the remediation activities will also be conducted to bring the surface to four-foot soil horizon into compliance with the Restoration, Reclamation and Re-Vegetation Criteria (Restoration Criteria) detailed in NMAC 19.15.29.13. The proposed site closure criteria are summarized below:

PROPOSED SITE CLOSURE CRITERIA (mg/Kg)

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO+MRO)	TPH (GRO+DRO)	BTEX	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW >100')	20,000	2,500	1,000	50	10
19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100*	---	50*	10*

1. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC) dated December 1, 2023.

3.0 SITE ASSESSMENT

3.1 Soil Impact Delineation

To determine the horizontal and vertical extent of impacts associated with the release incident, representatives of Ranger mobilized to the Site on October 28 and 29, 2025 to complete assessment activities. The assessment process included the installation of 12 hand auger soil borings in and surrounding the boundaries of the observed impact area, both on and off the facility pad. Based on the surficial nature of the release, the hand auger soil borings were completed to a maximum depth of approximately four feet bgs.

During the hand auger installation process, Ranger personnel collected soil samples at the surface and approximate one-foot intervals thereafter to the boring terminal depths for field screening purposes. The field screening of the encountered soils was conducted utilizing an organic vapor monitor (OVM) and field chloride titration kit. Field readings collected by Ranger during the assessment process indicated that elevated soil chloride concentrations were present within the impacted area. Based on the observed field OVM readings and chloride titration results, elevated soil concentrations in the impacted area appeared to be limited to the surface to two-foot depth interval.

To confirm the horizontal and vertical extent of the soil impacts, soil samples were collected for laboratory analysis from each boring at the interval exhibiting the highest level of impact based on field readings, and from the boring terminal depths. The soil samples were subsequently

Site Characterization, Assessment, and Proposed Remediation Plan
Martha AIK Federal CTB
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submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of total petroleum hydrocarbons (TPH) using Environmental Protection Agency (EPA) Method 8015; benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8021; and total chloride using Method SM 4500.

3.2 Assessment Sample Laboratory Results

The assessment sample results documented exceedances of the proposed site closure criteria in the shallow on-pad surface soils. No exceedances of the proposed site closure criteria were documented at the boring terminal depths of four feet bgs. The laboratory analytical results for the samples collected from locations surrounding the observed impact area were generally successful in delineating the horizontal extent of the affected area. One exception to this was a sample collected at the surface immediately north of the observed impact area (sample H-2.2/0') where an elevated TPH concentration was documented. While the laboratory analytical data indicates an elevated TPH concentration in this area, there were no field indications of an impact at this location such as staining or elevated OVM readings. Based on the observed field conditions, it is suspected that either the analytical results are erroneous or that cross-contamination of the sample resulted in the elevated soil conditions.

An *Assessment Sample Location Map* depicting the observed impact area and sample locations is provided in the Figures section. A table summarizing the laboratory analytical results for the samples collected during the assessment process is provided in the Tables section. Copies of the laboratory analytical reports and chain-of-custody documentation are included in *Attachment 3*.

4.0 PROPOSED REMEDIATION AND CONFIRMATION SOIL SAMPLING

Soil removal operations are proposed to address the impacts from the release incident. Due the presence of production equipment in the on-pad impact area, removal/relocation of the equipment will first be necessary to allow for removal of all soils impacted by the release. Upon completion of the equipment removal process, soil removal operations will commence. Based on the assessment results detailed above, the estimated size of the remediation area will be approximately 92 feet by 65 feet.

In the on-pad impact areas, excavation is anticipated to be completed to a maximum depth of approximately of one to two feet bgs. The initial soil removal operations will be completed to boundaries anticipated to be within the proposed site closure criteria. It should be noted that the initial soil removal operations will not include the area around sample H-2.2 due to the suspect TPH result at this location. However, during the soil removal process the excavation boundaries will be dictated by the observed field readings. In the event that the excavation boundaries are found to be within the proposed site closure criteria prior to reaching the H-2.2 sample location, then additional soil samples will be collected from this area for laboratory analysis to confirm the absence of an impact. In the event that exceedances of the proposed site closure criteria are confirmed in the sample H-2.2 area, then it will be overexcavated.

Based on the observed conditions in the off-pad impact area, only minimal removal activities in this area are proposed. Several inches of soil potentially impacted by the spray will be removed.

During the proposed soil removal operations, Ranger representatives will conduct field screening activities to guide the excavation boundaries and depths. Once it appears that the proposed site

Site Characterization, Assessment, and Proposed Remediation Plan
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closure criteria have been attained, cleanup confirmation soil samples will be collected for laboratory analysis from the base of the excavation and the side walls. The samples will be collected in accordance with NMAC 19.15.29.12(D), as five-part composite soil samples with each sample representing no more than 200 square feet. The sample parts will be collected from various locations and depths along the side walls and base of the excavation. Upon collection, the composite sample parts will be placed into a new Ziploc® bag, thoroughly mixed, and a sample for laboratory analysis will be collected from the mixture.

The cleanup confirmation soil sample results will be compared to the proposed site closure criteria to ensure that all affected soils have been removed from the Site. In the event that a sample analytical result is found to exceed the proposed closure criteria, then additional soil removal operations will be completed and additional cleanup confirmation soil samples will be collected in accordance with NMAC 19.15.29.12(D).

A *Proposed Remediation Area Map* depicting the proposed excavation areas and depths is included in the *Figures* section.

5.0 PROJECT TIMELINE AND SITE CLOSURE

The proposed remedial operations are anticipated to be completed within 90 days following receipt of NMOCD approval of the proposed remediation plan.

Upon confirmation that the affected area has been remediated to boundaries in attainment of the proposed site closure criteria, a comprehensive *Site Remediation and Closure Report* will be prepared and submitted to the NMOCD.

FIGURES

**Topographic Map
Area Map**

Depth-To-Groundwater Information Location Map

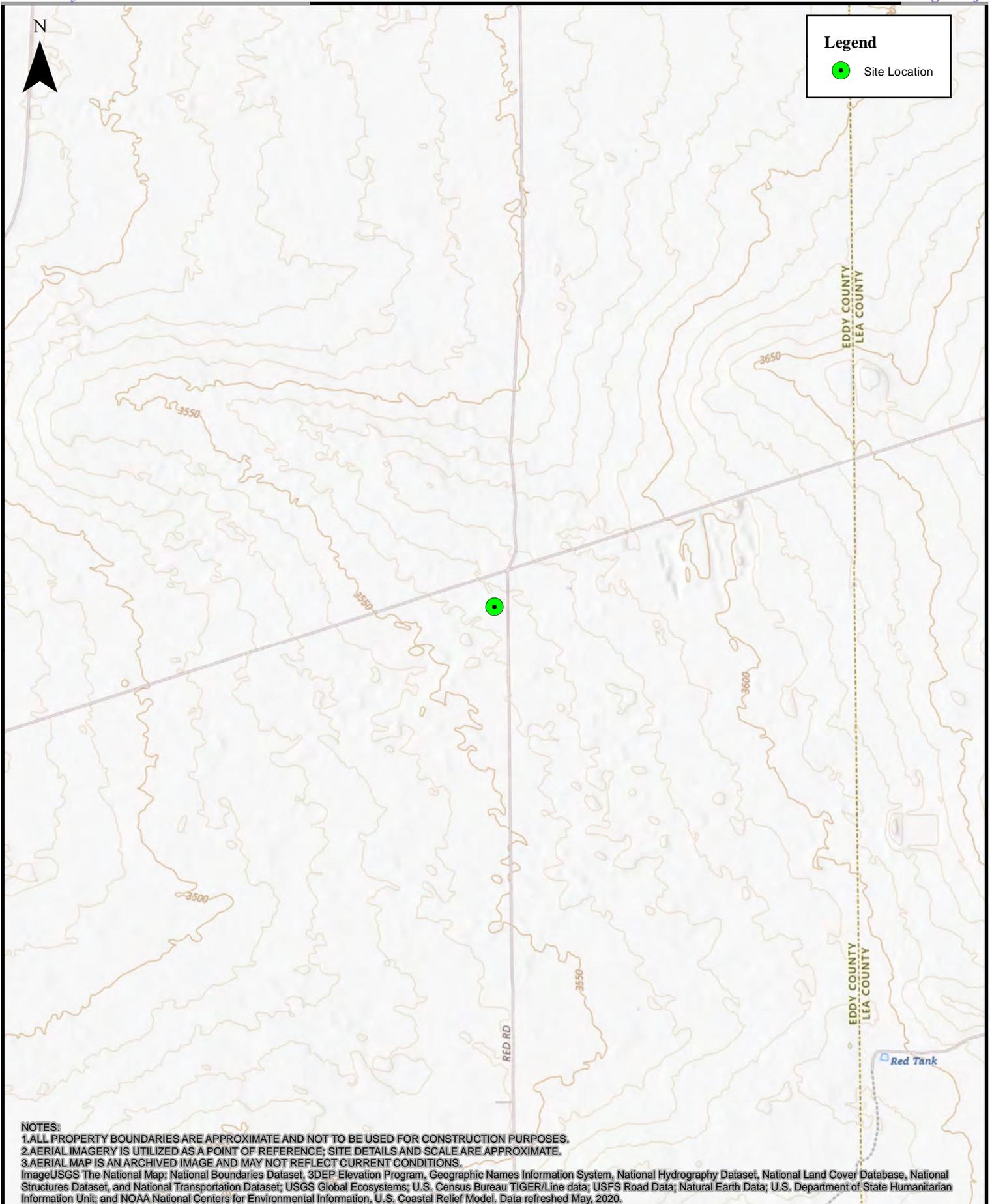
FEMA Floodplain Map

National Wetland Inventory Map

Karst Topography Map

Assessment Sample Location Map

Proposed Remediation Area Map



NOTES:

1. ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.

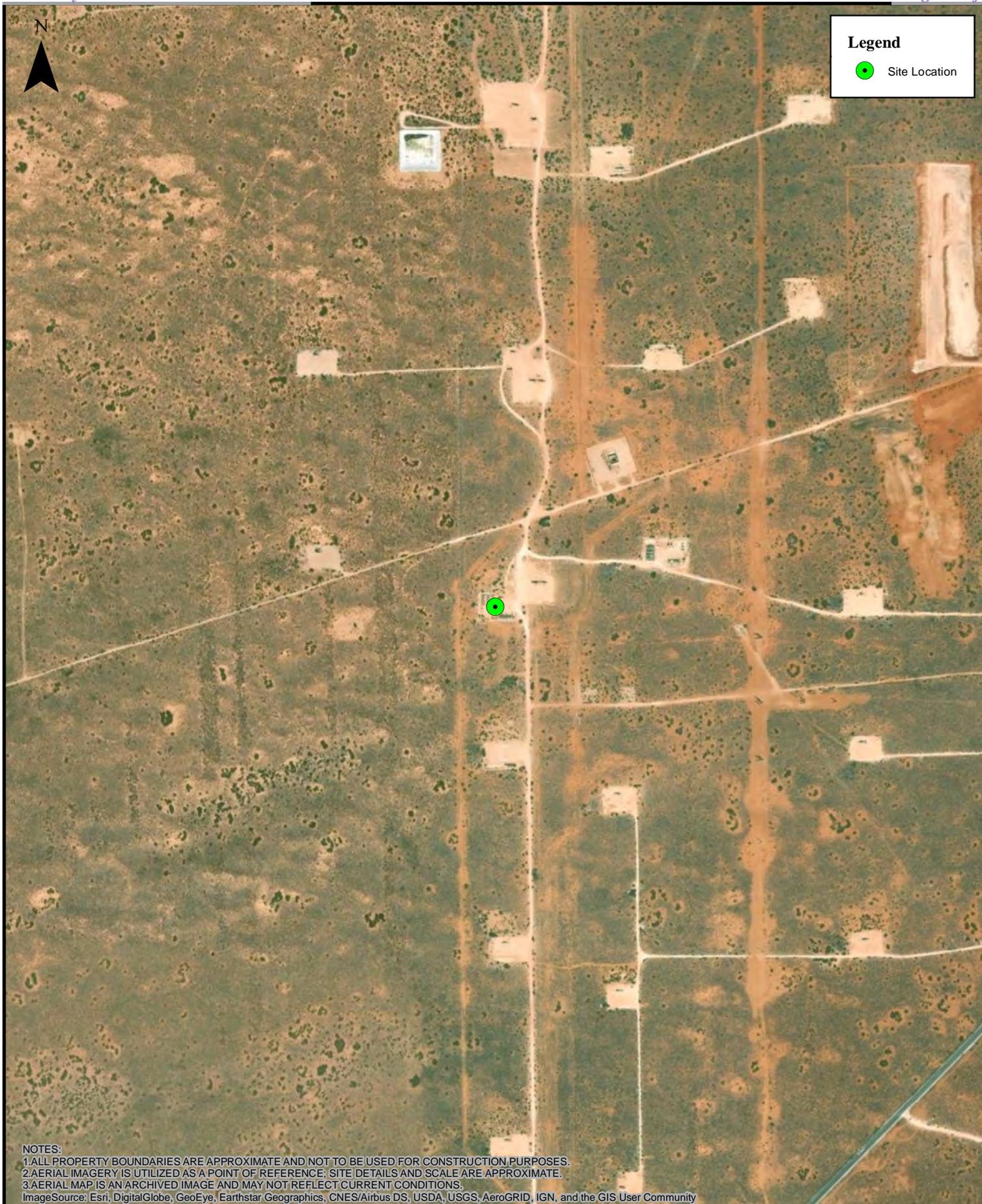
2. AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.

3. AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.

ImageUSGS The National Map; National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

The logo for RANGER Environmental Services, LLC features a stylized green mountain range above the word 'RANGER' in a bold, green, sans-serif font. Below 'RANGER' is the text 'ENVIRONMENTAL SERVICES, LLC' in a smaller, black font. To the right of the logo is a scale bar with markings at 0, 600, 1,200, 2,400, 3,600, and 4,800 feet. Below the scale bar, the text '1:24,000' is displayed.

Topographic Map
 Martha AIK Federal CTB
 EOG Resources, Inc.



Legend

- Site Location

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

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

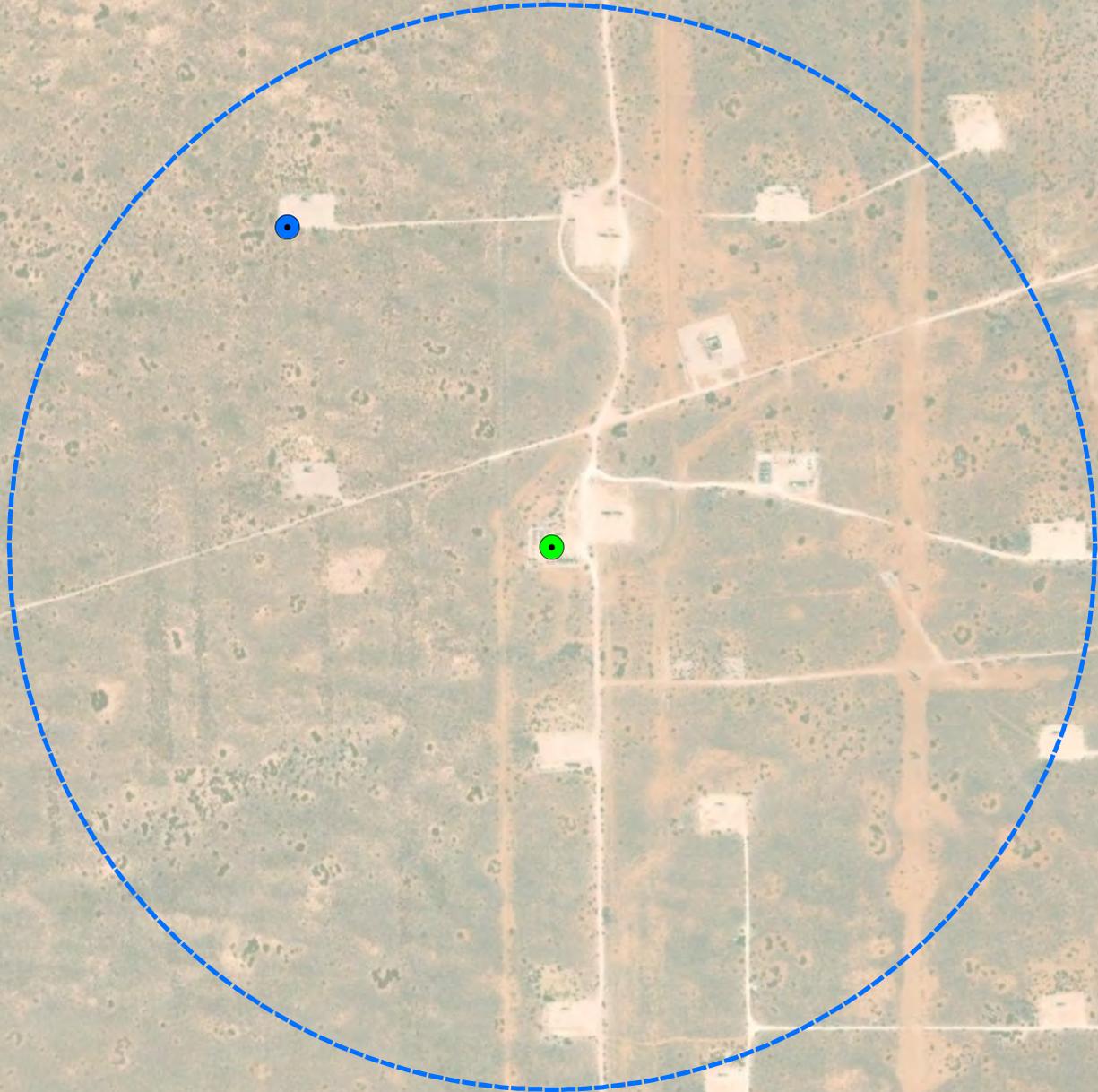
1:10,000

Area Map
 Martha AIK Federal CTB
 EOG Resources, Inc.



Legend

-  Site Location
-  DTGW Soil Boring Location
-  0.5 Mile Radius



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 ImageSource: Esri, Maxar, Earthstar Geographics, and the GIS User Community



RANGER
ENVIRONMENTAL SERVICES, LLC

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

1:10,000

Depth-to-Groundwater Information Location Map
 Martha AIK Federal CTB
 EOG Resources, Inc.



Legend

 Site Location

FEMA Flood Zone

 A - Area with a 1% annual chance of flooding

 AE - Area with a 1% annual chance of flooding

 AH - Areas with a 1% annual chance of shallow flooding

 AO - River or stream flood hazard areas

 X - Area of Minimal Flood Hazard



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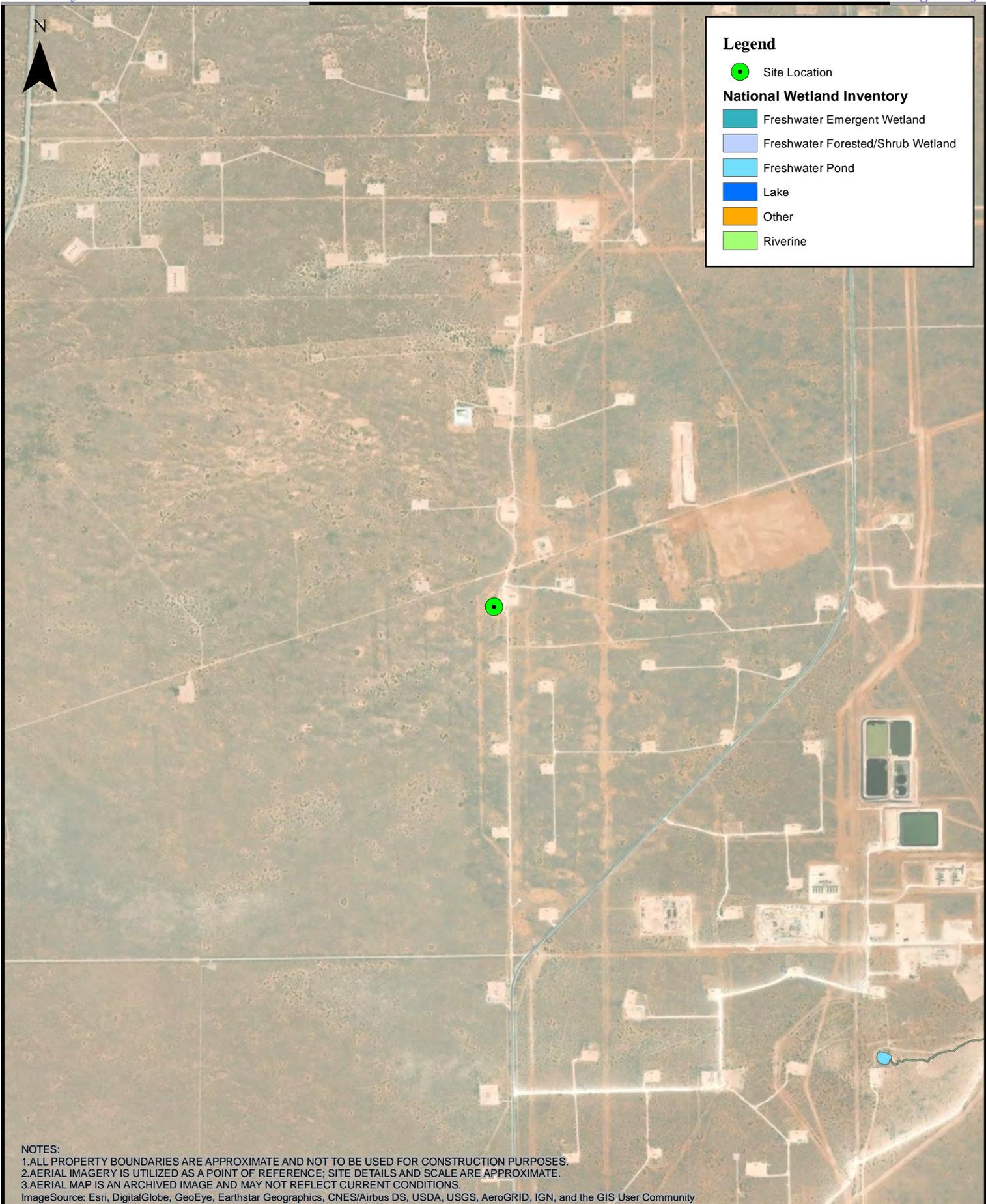
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ImageSource: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



1:10,000

FEMA Floodplain Map
Martha AIK Federal CTB
EOG Resources, Inc.



Legend

- Site Location

National Wetland Inventory

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

1:24,000

National Wetland Inventory Map
 Martha AIK Federal CTB
 EOG Resources, Inc.



Legend

 Site Location

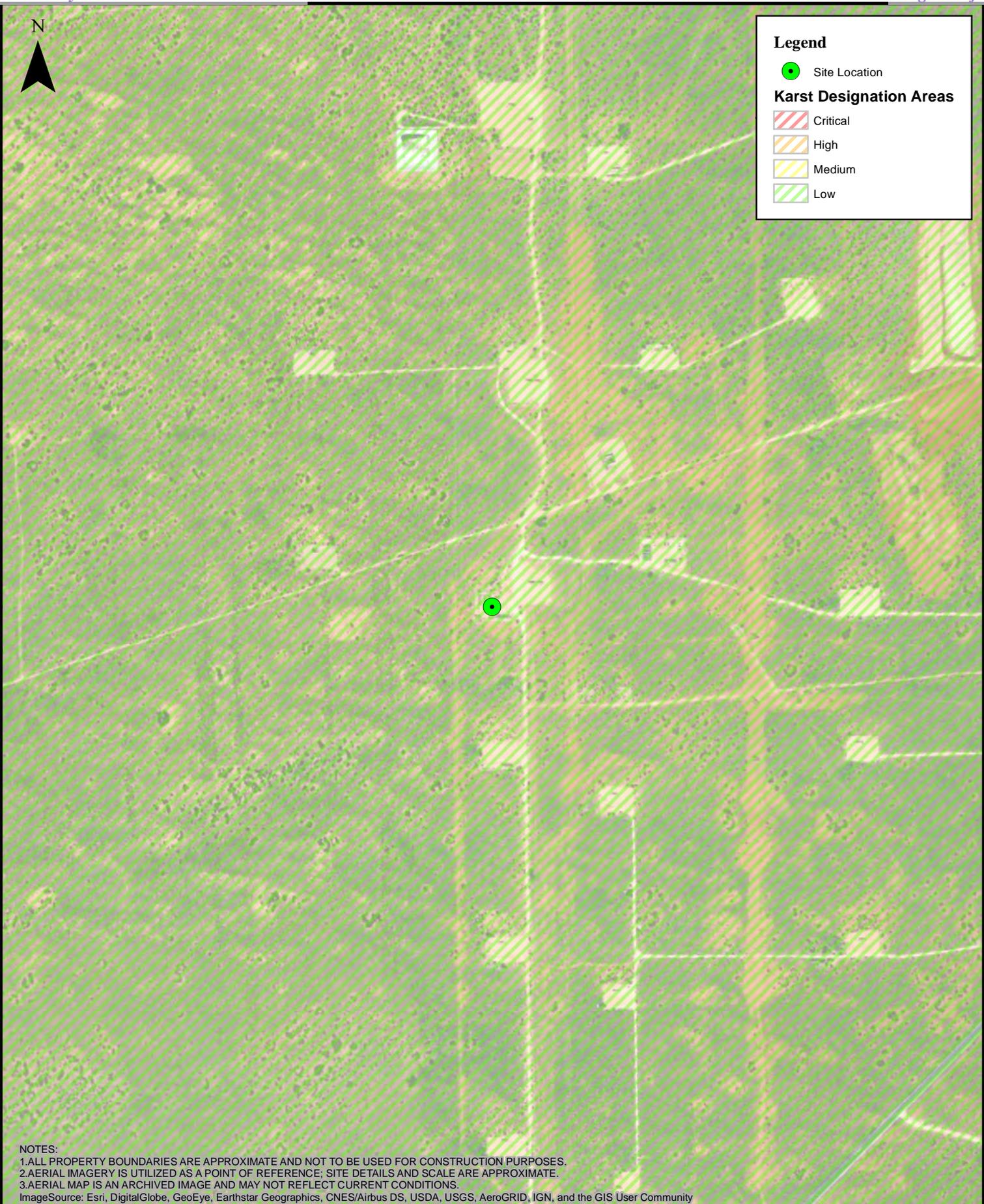
Karst Designation Areas

 Critical

 High

 Medium

 Low



NOTES:

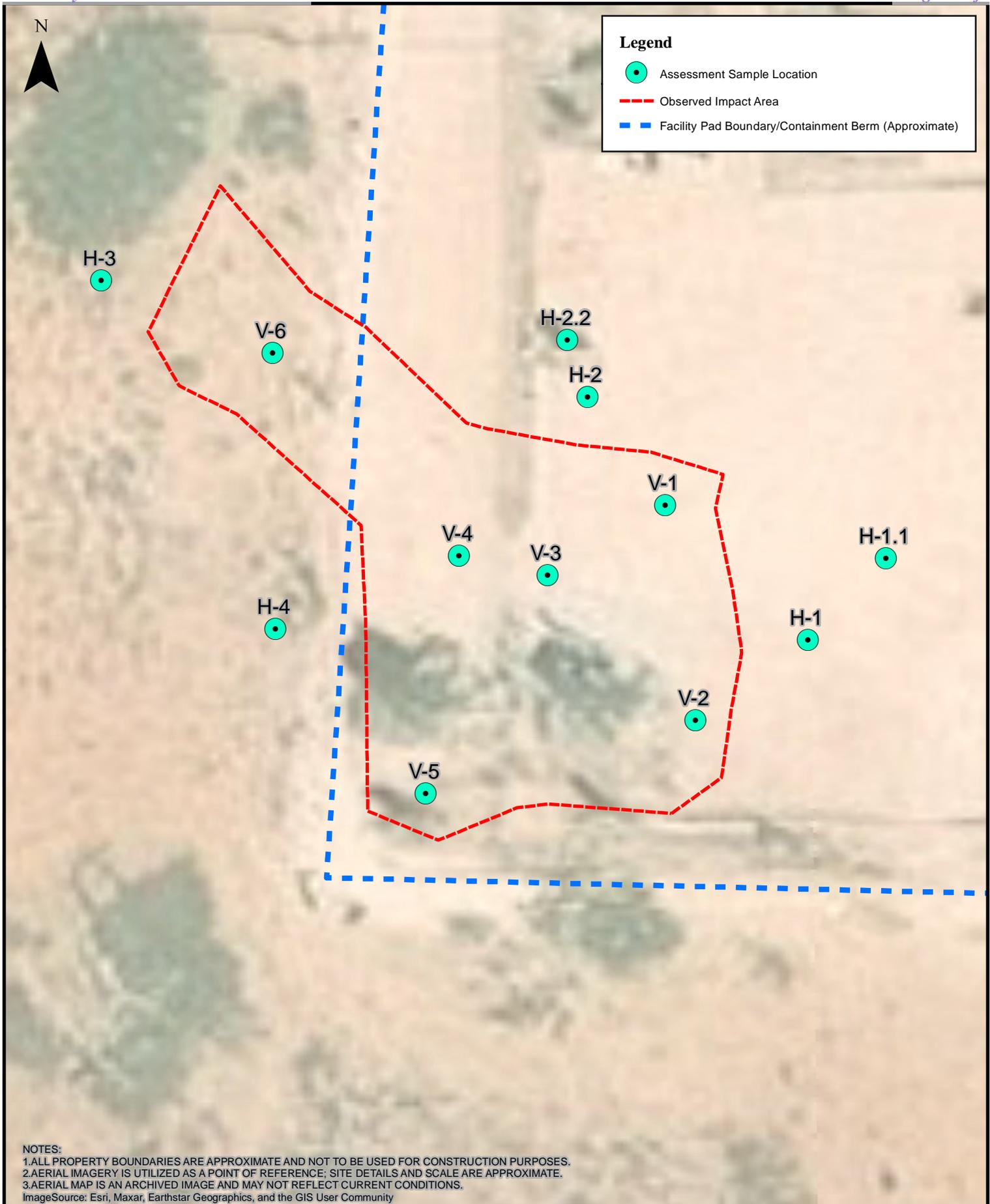
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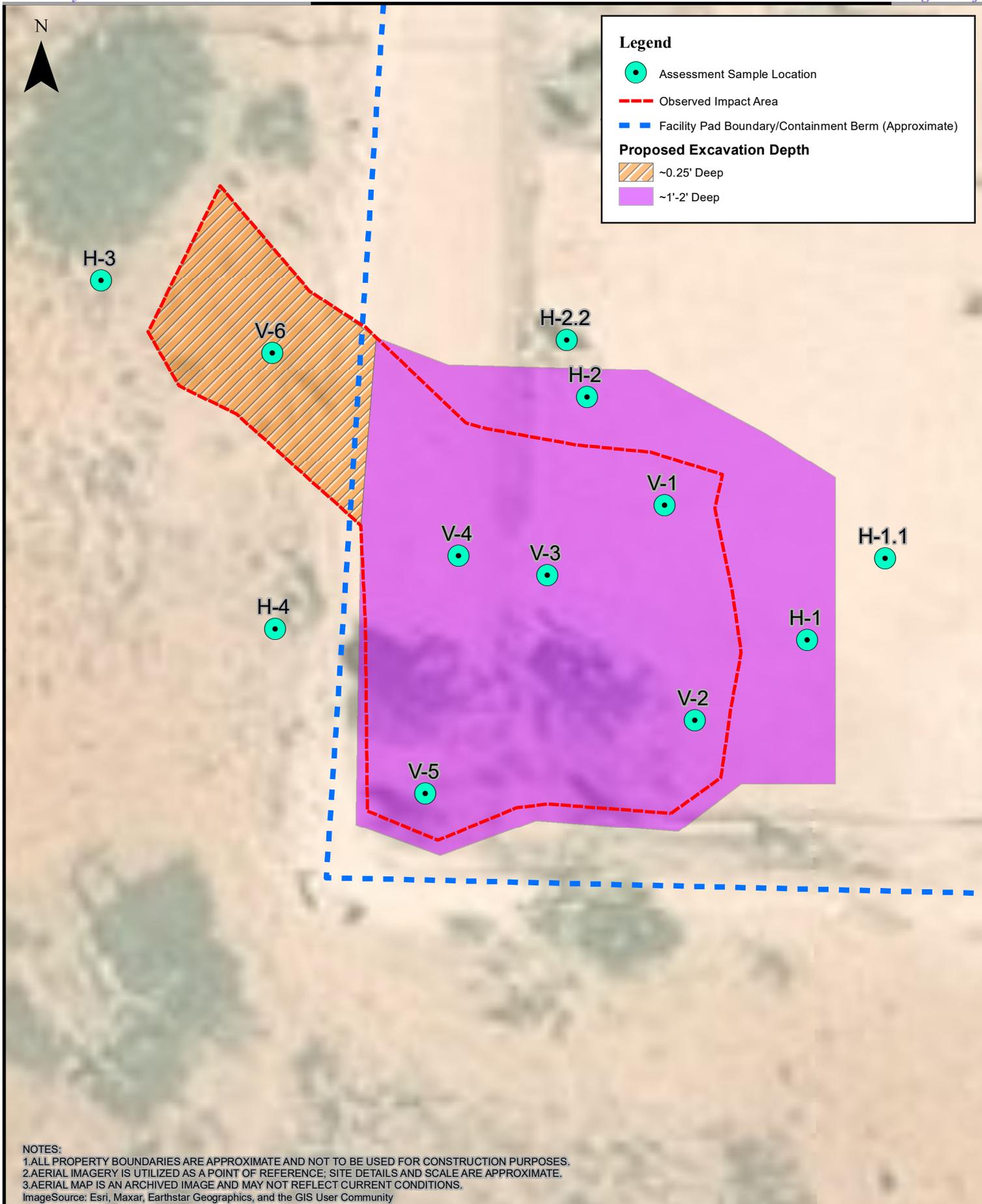
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Karst Topography Map
Martha AIK Federal CTB
EOG Resources, Inc.



0 5 10 20 30 40 Feet
1:200

Assessment Sample Location Map
Martha AIK Federal CTB
EOG Resources, Inc.



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1:200

Proposed Remediation Area Map
 Martha AIK Federal CTB
 EOG Resources, Inc.

TABLES

Assessment Sample Soil BTEX (EPA 8260), TPH (EPA 8015) & Chloride (SM4500) Analytical Data

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (SM 4500) ANALYTICAL DATA EOG RESOURCES, INC. MARTHA AIK FEDERAL CTB													
All values presented in parts per million (mg/Kg)													
SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	CHLORIDE
V-1/0'	10/28/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	174	45.9	174	219.9	10,600
V-1/4'	10/28/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	432
V-2/0'	10/28/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,410	488	1,410	1,898	2,760
V-2/4'	10/28/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	128
V-3/0'	10/28/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	177	47.9	177.0	224.9	896
V-3/4'	10/28/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	432
V-4/0'	10/28/2025	0'	<0.050	0.061	0.065	0.303	0.429	<50.0	12,100	2,360	12,100	14,460	14,300
V-4/4'	10/28/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.6	<10.0	11.6	11.6	80.0
V-5/0'	10/28/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	12.4	2,380	400	2,392	2,792	2,160
V-5/4'	10/28/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	240
V-6/0'	10/28/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.0	<10.0	24.0	24.0	<16.0
V-6/4'	10/28/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	32.0
H-1/0'	10/29/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	3,440
H-1/4'	10/29/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	128
H-2/0'	10/29/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	626	204	626	830	4,400
H-2/4'	10/29/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	448
H-3/0'	10/29/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	<16.0
H-3/4'	10/29/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	<16.0
H-4/0'	10/29/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	<16.0
H-4/4'	10/29/2025	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	32.0
H-1.1/0'	10/29/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	176
H-1.1/1'	10/29/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<20.0	<30.0	16.0
H-2.2/0'	10/29/2025	0'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	655	256	655	911	80.0
H-2.2/1'	10/29/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.1	<10.0	10.1	10.1	32.0
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW >100')			10	---	---	---	50	---	---	---	1,000	2,500	20,000
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			10³	---	---	---	50³	---	---	---	---	100³	600
Notes:													
1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.													
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.													
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document Procedures for the Implementation of Digital C-141 and the release rule (19.15.29 NMAC) dated December 1, 2023.													

ATTACHMENT 1 – DEPTH-TO-GROUNDWATER INFORMATION



Project Name :	Martha AIK Federal No. 13	Date :	Wednesday, March 2, 2022
Project No. :	1016	Sampler :	Clinton Merritt
Location :	Eddy Co, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.4038688, -103.7457492	Method :	Air Rotary
Elevation :	3,583		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		50		(50') - Red/Brown stiff clay with 50% soft, silty, very loose sand, no organics, dry (SC).	
5		(5') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		55		(55') - Red/Brown stiff clay with 50% soft, silty, very loose sand, no organics, dry (SC).	
10		(10') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		60		(60') - Red/Brown stiff clay with 50% soft, silty, very loose sand, no organics, dry (SC).	
15		(15') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		65		(65') - Red/Brown stiff clay with 50% soft, silty, very loose sand, no organics, dry (SC).	
20		(20') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		70		(70') - Red/Brown stiff clay with 50% soft, silty, very loose sand, no organics, dry (SC).	
25		(25') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		75		(75') - Red/Brown stiff clay with 50% soft, silty, very loose sand, no organics, dry (SC).	
30		(30') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		80		(80') - White soft, silty, very loose sand w/ 5% gyp, no organics, dry (SM).	
35		(35') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		85		(85') - Red stiff clay w/ 15% soft, silty, loosed sand and gyp, no organics, dry (SC)	
40		(40') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		90		(90') - Red stiff clay w/ 15% soft, silty, loosed sand and gyp, no organics, dry (SC)	
45		(45') - Red very soft, silty, very loose sand, w/ <3% gyp, no organics, dry (SM).		95		(95') - Red stiff clay w/ 15% soft, silty, loosed sand and gyp, no organics, dry (SC)	
50				105			

Comments : 12:30 (CT) Boring terminated at 105' with no presence of groundwater or moisture.

9:13 (CT) 03/07/2022 no presence of groundwater was detected

ATTACHMENT 2 – SITE PHOTOGRAPHS



PHOTOGRAPH NO. 1 – A view of the release during the initial Ranger site inspection on October 13, 2025. The view is towards the south.



PHOTOGRAPH NO. 2 – An additional view of the release taken during Ranger's site inspection on October 13, 2025. The view is towards the southeast.



PHOTOGRAPH NO. 3 – A view of the off-pad impact area to the west of facility boundary. The view is towards the northwest.



PHOTOGRAPH NO. 4 – A view of the assessment sampling on October 28, 2025. The view is towards the east.



PHOTOGRAPH NO. 5 – A view of the assessment sampling on October 29, 2025. The view is towards the northeast.

ATTACHMENT 3 – LABORATORY ANALYTICAL REPORT



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 06, 2025

WILL KIERDORF
RANGER ENVIRONMENTAL SERVICES, INC.
PO BOX 201179
AUSTIN, TX 78729

RE: MARTHA AIK FED #001

Enclosed are the results of analyses for samples received by the laboratory on 10/30/25 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
PO BOX 201179
AUSTIN TX, 78729

Project: MARTHA AIK FED #001
Project Number: 5375
Project Manager: WILL KIERDORF
Fax To: (512) 335-0527

Reported:
06-Nov-25 15:41

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V - 1 / 0'	H256853-01	Soil	28-Oct-25 13:20	30-Oct-25 14:00
V - 1 / 4'	H256853-02	Soil	28-Oct-25 13:24	30-Oct-25 14:00
V - 2 / 0'	H256853-03	Soil	28-Oct-25 14:26	30-Oct-25 14:00
V - 2 / 4'	H256853-04	Soil	28-Oct-25 14:26	30-Oct-25 14:00
V - 3 / 0'	H256853-05	Soil	28-Oct-25 10:32	30-Oct-25 14:00
V - 3 / 4'	H256853-06	Soil	28-Oct-25 10:38	30-Oct-25 14:00
V - 4 / 0'	H256853-07	Soil	28-Oct-25 15:10	30-Oct-25 14:00
V - 4 / 4'	H256853-08	Soil	28-Oct-25 15:12	30-Oct-25 14:00
V - 5 / 0'	H256853-09	Soil	28-Oct-25 16:20	30-Oct-25 14:00
V - 5 / 4'	H256853-10	Soil	28-Oct-25 16:22	30-Oct-25 14:00
V - 6 / 0'	H256853-11	Soil	28-Oct-25 16:34	30-Oct-25 14:00
V - 6 / 4'	H256853-12	Soil	28-Oct-25 16:38	30-Oct-25 14:00
H - 1 / 0'	H256853-13	Soil	29-Oct-25 11:28	30-Oct-25 14:00
H - 1 / 4'	H256853-14	Soil	29-Oct-25 11:34	30-Oct-25 14:00
H - 2 / 0'	H256853-15	Soil	29-Oct-25 12:28	30-Oct-25 14:00
H - 2 / 4'	H256853-16	Soil	29-Oct-25 12:30	30-Oct-25 14:00
H - 3 / 0'	H256853-17	Soil	29-Oct-25 13:26	30-Oct-25 14:00
H - 3 / 4'	H256853-18	Soil	29-Oct-25 13:30	30-Oct-25 14:00
H - 4 / 0'	H256853-19	Soil	29-Oct-25 13:58	30-Oct-25 14:00
H - 4 / 4'	H256853-20	Soil	29-Oct-25 14:00	30-Oct-25 14:00
H - 1.1 / 0'	H256853-21	Soil	29-Oct-25 13:00	30-Oct-25 14:00
H - 1.1 / 1'	H256853-22	Soil	29-Oct-25 13:10	30-Oct-25 14:00
H - 2.2 / 0'	H256853-23	Soil	29-Oct-25 13:14	30-Oct-25 14:00
H - 2.2 / 1'	H256853-24	Soil	29-Oct-25 13:18	30-Oct-25 14:00

11/06/25 - Login misread the project name. This is the revised report with the corrected project name and will replace the one sent on 11/05/25.

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 1 / 0'
H256853-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	10600		16.0	mg/kg	4	5110305	HM	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103140	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	70.4-141		5103140	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
DRO >C10-C28*	174		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	45.9		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			66.1 %	52.4-130		5103067	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			70.3 %	39.9-141		5103067	MS	02-Nov-25	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 1 / 4'
H256853-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	432		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103140	JH	02-Nov-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %	70.4-141		5103140	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.3 %	52.4-130		5103067	MS	02-Nov-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.1 %	39.9-141		5103067	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 2 / 0'
H256853-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	2760		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103140	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	70.4-141		5103140	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
DRO >C10-C28*	1410		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	488		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			82.8 %	52.4-130		5103067	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			103 %	39.9-141		5103067	MS	02-Nov-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 2 / 4'
H256853-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103140	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	70.4-141		5103140	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			93.6 %	52.4-130		5103067	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			92.8 %	39.9-141		5103067	MS	02-Nov-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 3 / 0'
H256853-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	896		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103140	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	70.4-141		5103140	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
DRO >C10-C28*	177		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	47.9		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			78.0 %	52.4-130		5103067	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			81.9 %	39.9-141		5103067	MS	02-Nov-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 3 / 4'
H256853-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	432		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103140	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103140	JH	02-Nov-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	70.4-141		5103140	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103067	MS	02-Nov-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.0 %	52.4-130		5103067	MS	02-Nov-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.7 %	39.9-141		5103067	MS	02-Nov-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 4 / 0'
H256853-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	14300		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	0.061		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	0.065		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	0.303		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	0.429		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			122 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<50.0		50.0	mg/kg	5	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	12100		50.0	mg/kg	5	5103068	MS	02-Nov-25	8015B	QM-07
EXT DRO >C28-C36	2360		50.0	mg/kg	5	5103068	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			91.4 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			254 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 4 / 4'
H256853-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	
DRO >C10-C28*	11.6		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	

Surrogate: 1-Chlorooctane			87.2 %	52.4-130		5103068	MS	01-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			80.4 %	39.9-141		5103068	MS	01-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 5 / 0'
H256853-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	2160		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	12.4		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	2380		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	400		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			86.9 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			152 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 5 / 4'
H256853-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	240		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.7 %	52.4-130		5103068	MS	01-Nov-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.8 %	39.9-141		5103068	MS	01-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 6 / 0'
H256853-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	
DRO >C10-C28*	24.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	

Surrogate: 1-Chlorooctane			99.3 %	52.4-130		5103068	MS	01-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			93.4 %	39.9-141		5103068	MS	01-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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V - 6 / 4'
H256853-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	01-Nov-25	8015B	

Surrogate: 1-Chlorooctane			98.4 %	52.4-130		5103068	MS	01-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			90.6 %	39.9-141		5103068	MS	01-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 1 / 0'
H256853-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	3440		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.8 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.7 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 1 / 4'
H256853-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			101 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			93.6 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 2 / 0'
H256853-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	4400		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	626		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	204		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.3 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.9 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 2 / 4'

H256853-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	448		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		70.4-141	5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.6 %		52.4-130	5103068	MS	02-Nov-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.0 %		39.9-141	5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 3 / 0'
H256853-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			84.6 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			81.3 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 3 / 4'
H256853-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			96.2 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			89.1 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 4 / 0'
H256853-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			97.7 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			89.4 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 4 / 4'
H256853-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.6 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.7 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 1.1 / 0'
H256853-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	5110309	AC	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.7 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.6 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 1.1 / 1'
H256853-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	5110311	KH	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			93.4 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			86.5 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 2.2 / 0'
H256853-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	5110311	KH	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	655		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	256		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

Surrogate: 1-Chlorooctane			99.1 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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H - 2.2 / 1'
H256853-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	5110311	KH	03-Nov-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5103141	JH	02-Nov-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5103141	JH	02-Nov-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	70.4-141		5103141	JH	02-Nov-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
DRO >C10-C28*	10.1		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5103068	MS	02-Nov-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.4 %	52.4-130		5103068	MS	02-Nov-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.5 %	39.9-141		5103068	MS	02-Nov-25	8015B	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5110305 - 1:4 DI Water

Blank (5110305-BLK1)		Prepared & Analyzed: 03-Nov-25								
Chloride	ND	16.0	mg/kg							
LCS (5110305-BS1)		Prepared & Analyzed: 03-Nov-25								
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (5110305-BSD1)		Prepared & Analyzed: 03-Nov-25								
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	

Batch 5110309 - 1:4 DI Water

Blank (5110309-BLK1)		Prepared & Analyzed: 03-Nov-25								
Chloride	ND	16.0	mg/kg							
LCS (5110309-BS1)		Prepared & Analyzed: 03-Nov-25								
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (5110309-BSD1)		Prepared & Analyzed: 03-Nov-25								
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

Batch 5110311 - 1:4 DI Water

Blank (5110311-BLK1)		Prepared & Analyzed: 03-Nov-25								
Chloride	ND	16.0	mg/kg							
LCS (5110311-BS1)		Prepared & Analyzed: 03-Nov-25								
Chloride	400	16.0	mg/kg	400		100	80-120			

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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**Inorganic Compounds - Quality Control
Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5110311 - 1:4 DI Water

LCS Dup (5110311-BSD1)

Prepared & Analyzed: 03-Nov-25

Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	
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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
PO BOX 201179
AUSTIN TX, 78729

Project: MARTHA AIK FED #001
Project Number: 5375
Project Manager: WILL KIERDORF
Fax To: (512) 335-0527

Reported:
06-Nov-25 15:41

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5103140 - Volatiles**Blank (5103140-BLK1)**

Prepared: 31-Oct-25 Analyzed: 02-Nov-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0561		mg/kg	0.0500		112	70.4-141			

LCS (5103140-BS1)

Prepared: 31-Oct-25 Analyzed: 02-Nov-25

Benzene	1.70	0.050	mg/kg	2.00		85.1	71-111			
Toluene	1.86	0.050	mg/kg	2.00		93.2	75-116			
Ethylbenzene	1.79	0.050	mg/kg	2.00		89.7	74.2-119			
m,p-Xylene	3.57	0.100	mg/kg	4.00		89.3	72.5-123			
o-Xylene	1.78	0.050	mg/kg	2.00		89.1	70.5-124			
Total Xylenes	5.35	0.150	mg/kg	6.00		89.2	72.2-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0480		mg/kg	0.0500		96.0	70.4-141			

LCS Dup (5103140-BSD1)

Prepared: 31-Oct-25 Analyzed: 02-Nov-25

Benzene	1.68	0.050	mg/kg	2.00		83.8	71-111	1.55	17.6	
Toluene	1.87	0.050	mg/kg	2.00		93.7	75-116	0.524	14.8	
Ethylbenzene	1.85	0.050	mg/kg	2.00		92.3	74.2-119	2.86	14.2	
m,p-Xylene	3.69	0.100	mg/kg	4.00		92.3	72.5-123	3.27	13.6	
o-Xylene	1.80	0.050	mg/kg	2.00		89.9	70.5-124	0.962	13.7	
Total Xylenes	5.49	0.150	mg/kg	6.00		91.5	72.2-123	2.51	13.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.4	70.4-141			

Batch 5103141 - Volatiles**Blank (5103141-BLK1)**

Prepared: 31-Oct-25 Analyzed: 02-Nov-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
PO BOX 201179
AUSTIN TX, 78729

Project: MARTHA AIK FED #001
Project Number: 5375
Project Manager: WILL KIERDORF
Fax To: (512) 335-0527

Reported:
06-Nov-25 15:41

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5103141 - Volatiles**Blank (5103141-BLK1)**

Prepared: 31-Oct-25 Analyzed: 02-Nov-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	70.4-141			

LCS (5103141-BS1)

Prepared: 31-Oct-25 Analyzed: 02-Nov-25

Benzene	1.66	0.050	mg/kg	2.00		83.2	71-111			
Toluene	1.84	0.050	mg/kg	2.00		91.9	75-116			
Ethylbenzene	1.76	0.050	mg/kg	2.00		87.9	74.2-119			
m,p-Xylene	3.49	0.100	mg/kg	4.00		87.2	72.5-123			
o-Xylene	1.73	0.050	mg/kg	2.00		86.5	70.5-124			
Total Xylenes	5.22	0.150	mg/kg	6.00		86.9	72.2-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0477		mg/kg	0.0500		95.4	70.4-141			

LCS Dup (5103141-BSD1)

Prepared: 31-Oct-25 Analyzed: 02-Nov-25

Benzene	1.66	0.050	mg/kg	2.00		82.8	71-111	0.454	17.6	
Toluene	1.87	0.050	mg/kg	2.00		93.3	75-116	1.59	14.8	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.4	74.2-119	3.98	14.2	
m,p-Xylene	3.64	0.100	mg/kg	4.00		91.1	72.5-123	4.41	13.6	
o-Xylene	1.79	0.050	mg/kg	2.00		89.3	70.5-124	3.18	13.7	
Total Xylenes	5.43	0.150	mg/kg	6.00		90.5	72.2-123	4.00	13.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.9	70.4-141			

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5103067 - General Prep - Organics

Blank (5103067-BLK1)		Prepared: 30-Oct-25 Analyzed: 01-Nov-25								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.2		mg/kg	50.0		86.4	52.4-130			
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0		85.2	39.9-141			

LCS (5103067-BS1)		Prepared: 30-Oct-25 Analyzed: 01-Nov-25								
GRO C6-C10	216	10.0	mg/kg	200		108	78.7-123			
DRO >C10-C28	231	10.0	mg/kg	200		115	74.8-123			
Total TPH C6-C28	447	10.0	mg/kg	400		112	78.6-121			
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.7	52.4-130			
Surrogate: 1-Chlorooctadecane	50.1		mg/kg	50.0		100	39.9-141			

LCS Dup (5103067-BSD1)		Prepared: 30-Oct-25 Analyzed: 01-Nov-25								
GRO C6-C10	213	10.0	mg/kg	200		107	78.7-123	1.35	11.3	
DRO >C10-C28	229	10.0	mg/kg	200		114	74.8-123	0.864	10.9	
Total TPH C6-C28	442	10.0	mg/kg	400		111	78.6-121	1.10	10.5	
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.1	52.4-130			
Surrogate: 1-Chlorooctadecane	50.3		mg/kg	50.0		101	39.9-141			

Batch 5103068 - General Prep - Organics

Blank (5103068-BLK1)		Prepared: 30-Oct-25 Analyzed: 01-Nov-25								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.1	52.4-130			
Surrogate: 1-Chlorooctadecane	41.1		mg/kg	50.0		82.3	39.9-141			

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC. PO BOX 201179 AUSTIN TX, 78729	Project: MARTHA AIK FED #001 Project Number: 5375 Project Manager: WILL KIERDORF Fax To: (512) 335-0527	Reported: 06-Nov-25 15:41
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5103068 - General Prep - Organics

LCS (5103068-BS1)

Prepared: 30-Oct-25 Analyzed: 01-Nov-25

GRO C6-C10	230	10.0	mg/kg	200		115	78.7-123			
DRO >C10-C28	219	10.0	mg/kg	200		110	74.8-123			
Total TPH C6-C28	449	10.0	mg/kg	400		112	78.6-121			
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	52.4-130			
Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		96.9	39.9-141			

LCS Dup (5103068-BSD1)

Prepared: 30-Oct-25 Analyzed: 01-Nov-25

GRO C6-C10	231	10.0	mg/kg	200		116	78.7-123	0.832	11.3	
DRO >C10-C28	227	10.0	mg/kg	200		113	74.8-123	3.23	10.9	
Total TPH C6-C28	458	10.0	mg/kg	400		115	78.6-121	2.01	10.5	
Surrogate: 1-Chlorooctane	50.8		mg/kg	50.0		102	52.4-130			
Surrogate: 1-Chlorooctadecane	48.1		mg/kg	50.0		96.3	39.9-141			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celest D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1043

BILL TO

ANALYSIS REQUEST

Company Name: Ranger Environmental Services, Inc.
 Project Manager: Will Klendorf
 Address: PO Box 201179
 City: Austin State: TX Zip: 78720
 Phone #: 512-289-3272 Fax #: 512-335-0527
 Project #: 5375 Project Owner:
 Project Name: Martha A/K Fed # 002
 Project Location: ~~Martha~~ Lea County, NM
 Sampler Name: J. Martinez
 P.O. #: Company: EOG Resources Inc
 Attn: Chase Settle
 Address: 5509 Champions Dr.
 City: Midland State: TX Zip: 79706
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			TPH: 8015 EXT	BTEX 8021B/5030 or BTEX 8260	Chloride (300 or 4500)
HX 6853	V-1/8'	G	1			X				10/28/25	1320	X	X	X
	V-2/4'									10/28/25	1324	X	X	X
	V-2/0'									10/28/25	1426	X	X	X
	V-2/4'									10/28/25	1426	X	X	X
	V-3/0'									10/29/25	1032	X	X	X
	V-3/4'									10/29/25	1038	X	X	X
	V-4/0'									10/28/25	1510	X	X	X
	V-4/4'									10/28/25	1512	X	X	X
	V-5/0'									10/28/25	1620	X	X	X
	V-5/4'									10/28/25	1622	X	X	X

No Labels

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Relinquished By: [Signature]
 Date: 10/28/25
 Time: 4:00
 Received By: [Signature]
 Date: [Signature]
 Time: [Signature]

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: UPS
 Sample Condition: Intact Cool Yes No
 CHECKED BY: [Signature]
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: Please hold the following samples pending initial results:
 Standard

FORM-006 R 2.0

* Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

BILL TO

ANALYSIS REQUEST

Company Name: Ranger Environmental Services, Inc.
 Project Manager: Will Klendorf
 Address: PO Box 201179
 City: Austin State: TX Zip: 78720
 Phone #: 512-289-3272 Fax #: 512-335-0527
 Project #: 5375 Project Owner:
 Project Name: Martha AIK Fed #001
 Project Location: Lea County, NM
 Sampler Name: J. Martinez
 P.O. #: Company: EOG Resources Inc
 Attn: Chase Settle
 Address: 5509 Champions Dr.
 City: Midland
 State: TX Zip: 79706
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH: 8015 EXT	BTEX 8021B/5030 or BTEX 8260	Chloride (300 or 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
4856853	V-6/0'	G	1								10/28/25	1634	X	X	X
	V-6/4'										10/28/25	1438	X	X	X
	H-2/0'										10/28/25	1128	X	X	X
	H-2/4'										10/29/25	1134	X	X	X
	H-2/0'										10/29/25	1228	X	X	X
	H-2/4'										10/29/25	1230	X	X	X
	H-3/0'										10/29/25	1324	X	X	X
	H-3/4'										10/29/25	1330	X	X	X
	H-4/0'										10/29/25	1358	X	X	X
	H-4/4'										10/29/25	1400	X	X	X

NO Labels

Relinquished By: [Signature]
 Date: 10/29/25
 Time: 1400
 Received By: [Signature]
 Date: [Signature]
 Time: [Signature]

Phone Result: Yes No
 Fax Result: Yes No
 Add'l Phone #: Add'l Fax #:
 REMARKS: Standard

Delivered By: (Circle One) UPS - Bus - Other: CE 10.3c \$140
 Sample Condition: Cool Intact
 Checked By: [Signature] (Initials)

FORM-006 R 2.0
 Email results to: will@rangerenv.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: Ranger Environmental Services, Inc. P.O. #: **BILL TO** ANALYSIS REQUEST

Project Manager: Will Kierdorf Company: EOG Resources Inc

Address: PO Box 201179 State: TX Zip: 78720 Attn: Chase Settle

City: Austin Address: 5509 Champions Dr.

Phone #: 512-289-3272 Fax #: 512-335-0527 City: Midland

Project #: 5375 Project Owner: State: TX Zip: 79706

Project Name: Martha AIK Fed #002 Phone #:

Project Location: Lea County, NM Fax #:

Sampler Name: J. Martinez

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH: 8015 EXT	BTEX 8021B/5030 or BTEX 8260	Chloride (300 or 4500)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
HAS 6853	H-1,1/0'	G	1			X					10/24/25	1300	X	X	X
	H-1,1/1'											1310			
	H-2,2/6'											1314			
	H-2,2/11'											1318			

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Relinquished By: [Signature] Received By: [Signature] Date: 10/30/25

Delivered By: (Circle One) Sample Condition: Cool Intact Yes No No

Sampler - UPS - Bus - Other: -0.3% / 0.0

FORM-006 R 2.0

Checked By: [Signature]

REMARKS: ND Labels

Please hold the following samples pending initial results. Email results to: will@rangerenv.com

ATTACHMENT 4 – NMOCD CORRESPONDENCE

OCDOnline@state.nm.us <OCDOnline@state.nm.us>
to Chase Settle ▾

Tue, Oct 21, 8:45AM (23 hours ago)

 **CAUTION - External Sender**

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.

To whom it may concern (c/o Chase Settle for EOG RESOURCES INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2529355289, with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnr.dnm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 535042

QUESTIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 535042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2529355289
Incident Name	NAPP2529355289 MARTHA AIK FEDERAL CTB @ P-11-22S-31E
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	Martha Aik Federal CTB
Date Release Discovered	10/12/2025
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 7 BBL Recovered: 3 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 4 BBL Recovered: 2 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 535042

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 535042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Chase Settle Title: Safety & Environmental Rep II Email: chase_settle@eogresources.com Date: 12/15/2025
--	--

Sante Fe Main Office
Phone: (505) 476-3441

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS, Page 3

Action 535042

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 535042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	14300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14460
GRO+DRO (EPA SW-846 Method 8015M)	12100
BTEX (EPA SW-846 Method 8021B or 8260B)	0.4
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/22/2026
On what date will (or did) the final sampling or liner inspection occur	04/22/2026
On what date will (or was) the remediation complete(d)	04/22/2026
What is the estimated surface area (in square feet) that will be reclaimed	1659
What is the estimated volume (in cubic yards) that will be reclaimed	365
What is the estimated surface area (in square feet) that will be remediated	4376
What is the estimated volume (in cubic yards) that will be remediated	365

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 4

Action 535042

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 535042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Chase Settle Title: Safety & Environmental Rep II Email: chase_settle@egoresources.com Date: 12/15/2025
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 535042

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 535042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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Oil Conservation Division
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QUESTIONS, Page 6

Action 535042

QUESTIONS (continued)

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 535042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 535042

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 535042
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved as written except with the following condition: 1. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, EOG must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 2. EOG has 90-days (May 14, 2026) to submit to OCD its appropriate or final remediation closure report.	2/13/2026