RANGER
ENVIRONMENTAL SERVICES, LLC

BACKGROUND SOIL CHLORIDE INVESTIGATION REPORT

INEX #3
#NAPP2110635348
UNIT A, SECTION 26, TOWNSHIP 18S, RANGE 26E
EDDY COUNTY, NEW MEXICO
32.724228°, -104.346278°

PREPARED FOR:

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

PREPARED BY:

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1.0 REPORT SUMMARY

This report provides the results of a background soil chloride study conducted within the vicinity of the historic Inex #3 well pad area (Site) in the Public Land Survey System (PLSS) Unit A, Section 26, Township 18 South and Range 26 East. The Site, located at GPS coordinates 32.724228, -104.346278, is associated with Incident No. nAPP2110635348. The background soil chloride study was conducted at the Site which is currently being assessed by EOG Resources, Inc. (EOG).

EOG has retained Ranger Environmental Services, LLC (Ranger) to assist in the on-going assessment and remediation efforts at the subject Site. Since the available soil assessment data from this site is suggestive of naturally occurring elevated soil chloride concentrations, EOG requested Ranger to conduct a background soil chloride study to determine if naturally occurring elevated soil chloride concentrations were present. This report has been prepared to present the findings of the background soil chloride study at the Inex #3 Site. The results of the background study has documented that elevated soil chloride concentrations are present in the soils located outside of the areas of apparent impact at the Site.

2.0 PROJECT BACKGROUND

The Inex #3 well pad is located in Eddy County approximately 8.7 miles southeast of Artesia, New Mexico. During plugging and abandonment of the historic well at the Site, an area of concern related to an unknown produced water impact was discovered in the vicinity of the well head location. Subsequently, Ranger has performed multiple assessments and has submitted a proposed remediation plan for the Site.

This report has been prepared to update the NMOCD with the findings of the November 2023 background soil investigation. This report also respectfully requests NMOCD to utilize the site-specific background chloride concentrations recommended from the assessment activities for the delineation and remediation of the subject Site in lieu of the 600 mg/Kg chloride concentration as presented in NMAC 19.15.29.12 Table 1 and the NMAC 19.15.29.13 NMAC Restoration, Reclamation, and Re-Vegetation Criteria.

A topographic and aerial map depicting the location of the subject site and surrounding areas are attached in the *Figures* Section.

3.0 USDA NRCS SOIL DATA

As part of the background study, Ranger reviewed the soil data available from the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey.

Per the USDA NRCS Web Soil Survey, the soils around the Inex #3 well pad area are comprised of the Reagan loam, saline, 0 to 1 percent slopes (Rf). These soils are reported to be slightly saline to strongly saline (4.0 to 16.0 mmhos/cm).

A copy of the USDA NRCS *Custom Soil Resource Report* prepared for this background soil chloride study is included for reference in *Attachment 2*.

4.0 BACKGROUND SOIL CHLORIDE INVESTIGATIONS

On November 6, 2023 and November 9, 2023, representatives of EOG and Ranger conducted the background soil chloride investigation at the Site. Below is a summary of the investigation methodologies and results.

4.1 Assessment Methodologies

In order to assess the background soil chloride concentrations, representatives of EOG and Ranger installed and sampled four 20-foot-deep test excavations in the vicinity of the Site on November 6, 2023. The test excavations were located on native soil outside of the areas of apparent impact from the well pad. Prior to installing the test excavations, Ranger reviewed historic aerial photographs to select tentative sampling locations which appeared to represent unaffected background areas where no obvious historic oil and gas (or other industrial) operations had occurred. A topographic map was also reviewed to assist in locating the test excavations in areas upgradient, downgradient, and cross-gradient to the Site. Attached is a *Site Location Topographic Map* in the *Figures* Section of this report. Copies of historic aerial photographs are provided in *Attachment 3*.

Upon completion of the aerial photograph and topographic map review activities, Ranger conducted field inspections at each sampling location to confirm there were no signs of historic disturbance, oil and gas operations, or any other obvious field indications of potential contaminant impacts. Each potential sampling location was observed to be in a natural condition with no observable contaminant impacts.

Subsequent to the completion of the above activities and confirmation that each sampling location appeared to be in a natural condition, EOG and Ranger personnel installed and sampled the four test excavations at the Site. The test excavations were completed using equipment capable of investigating soils to a depth of 20 feet below ground surface (bgs).

For the reasons discussed in Section 5, below, eight additional shallow background soil samples were collected on November 9, 2023. These samples were collected using a decontaminated hand auger.

During the test excavation and hand auger installation process, Ranger personnel collected soil samples at a minimum every two feet for both field screening purposes and for laboratory analysis. The field screening of the encountered soils was conducted by Ranger using an organic vapor

monitor (OVM) and field chloride titration kit. While elevated field chloride readings were documented at the Site, none of the test excavations were found to contain elevated OVM readings, olfactory observations, discoloration, or other field indications of potential contaminant impacts.

As stated above, Ranger personnel collected soil samples every two feet for laboratory analysis. Since each test excavation was advanced to a depth of 20 feet bgs, a total of 10 soil samples were collected for laboratory analysis from each test excavation on November 6, 2023. During the November 9, 2023 supplemental soil sampling at the Site, Ranger personnel again collected soil samples every two feet. Since each hand auger soil boring was advanced to a depth of four feet bgs, a total of eight additional soil samples were collected for laboratory analysis during the November 9, 2023, sampling activities.

The soil samples were collected using new nitrile gloves and were containerized in sterile, laboratory-supplied containers. The sample jars were placed into multiple new Ziploc® bags and were immediately stored in a sample shuttle full of ice. The samples were managed using standard quality assurance and quality control (QA/QC) and chain-of-custody procedures.

The soil samples collected for laboratory analysis were subsequently submitted to Cardinal Laboratories in Hobbs, New Mexico for chemical analysis. All samples collected during the assessment process were analyzed for chloride using Environmental Protection Agency (EPA) Method SM4500Cl-B. Additionally, three soil samples collected from each test excavation on November 6, 2023, and one soil sample collected from each hand auger soil boring on November 9, 2023, were further analyzed for total petroleum hydrocarbons (TPH) using EPA Method 8015 and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8021. These analyses were performed to further ensure the absence of any contaminant impacts at the test excavation locations.

A “Site Map” depicting the test excavations and hand auger locations at the Site is included in the *Figures* Section. Copies of the laboratory reports and chain of custody documentation for the background soil samples are included in *Attachment 1*. The attached *Background Soil Sample BTEX, TPH & Chloride Analytical Data* table provides a summary of the background soil sample results and is included in the *Tables* Section of this report. Photographic documentation of the completed field activities is provided in *Attachment 5*.

4.2 Laboratory Analytical Results

Upon review of the laboratory analytical results, elevated chloride concentrations were documented to be present in the background soils. All soil TPH and BTEX analytical results were documented to be below laboratory detection limits. As such, the results document that there are no indications of potential hydrocarbon impacts at the background soil sampling locations.

The background soil chloride analytical results for the Inex #3 site documented background soil chloride concentrations in the 0’-20’ depth interval ranging from 32 to 1,500 mg/Kg. In the 0’-4’ depth interval, the background soil chloride concentrations were documented to range from 32 to 1,500 mg/Kg. In the depth interval below four feet to the 20-foot test excavation termination depth, the background soil chloride concentrations were documented to range from 32 to 1,390 mg/Kg.

5.0 ESTIMATIONS OF BACKGROUND THRESHOLD VALUES

Soil background is an important factor to consider when assessing and remediating constituents commonly found in soil. For constituents such as chloride, regulatory closure criteria may be within the range of naturally occurring background concentrations. This appears to be the case at the subject Site since the 600 mg/Kg NMOCD regulatory closure/reclamation criteria for chloride is significantly below the upper range of background chloride concentrations documented from the investigations performed. As such, Ranger calculated site-specific representative background soil chloride concentrations (i.e., background threshold values or BTVs) for proposed usage in the development of the site delineation and remediation plans, and to help distinguish between contributions from the site-related impacts and the area background conditions. BTV is defined as a measure of the upper threshold of a representative background population, such that only a small portion of background concentrations exceed the threshold value. BTVs are usually used for site delineation purposes or point-by-point comparison to individual site data to identify contamination.

To calculate proposed background soil chloride concentrations at the Site, Ranger evaluated the site-specific soil chloride datasets using EPA ProUCL Version 5.1.0 statistical software. This statistical software was developed by the EPA for environmental applications for datasets both with and without non-detect observations. The ProUCL software incorporates statistical methods described in various U.S. EPA guidance documents to help make decisions at a site which are protective of human health and the environment. The software uses statistics to compute reliable estimates of specific population parameters.

To calculate the site-specific BTVs, the background soil data were first subdivided into two datasets – one for the 0'-4' soils subject to both the 19.15.29.12 NMAC Table 1 Closure Criteria and the 19.15.29.13 NMAC Reclamation Criteria, and one for the underlying soils (>4'-20') subject to the 19.15.29.12 NMAC Table 1 Closure Criteria. The ProUCL software was subsequently utilized to evaluate potential outliers, determine dataset distributions, and calculate BTVs from the datasets. Included in *Attachment 4* of this report are copies of the ProUCL calculations and box plots generated from the analytical results.

Additional Sampling

It should be noted that following the receipt of the laboratory analytical results for the initial background soil samples collected at the Inex #3 Site on November 6, 2023, Ranger attempted to calculate a BTV for the 0'-4' depth interval using the ProUCL software. The ProUCL software indicated that there were not enough samples from the dataset to follow a discernible distribution apparently due to the high variance between the initial sample results. As such, Ranger personnel returned to the Site to collect eight additional 0'-4' background soil samples on November 9, 2023.

The chloride analytical results from the November 9, 2023 assessment were added to the initial 0'-4' dataset and run through the ProUCL software. With the inclusion of the new samples, the 16 soil samples were sufficient for the ProUCL software to calculate the site-specific BTV.

The *Background Sample Location Map* included in the *Figures* section illustrates the location of the November 9, 2023 soil boring locations.

5.1 Potential Outliers

In order to identify potential outliers, the ProUCL software was utilized to generate box plots of each dataset. As illustrated on the box plots (*Attachment 4*) in the >4'-20' depth interval, only one potential outlier was identified. The 1,390 mg/Kg soil chloride result from sample BG-3/14 was identified as a potential outlier. No potential outliers were identified from the soil dataset in the 0'-4' depth interval.

An outlier or an outlying observation refers to an observation that appears to deviate markedly in value from other measurements of the dataset in which it appears. A data point is not necessarily an outlier just because it is greatly larger or smaller in magnitude than anticipated. In practice, only outliers that are demonstrably erroneous or belonging to populations not representative of background conditions should be excluded from the background dataset. In background investigations, typical sources of error that can result in outliers include: (a) transcription error, (b) sampling error, (c) laboratory error, and (d) sampling of media not representative of background conditions.

Ranger evaluated the potential outlier and did not find any of the errors summarized above that could be used to misinterpret the background data. As discussed in Section 4.1 above, the soils which were sampled as part of the background study appear to be representative of background conditions. The test excavations were located outside of the areas of apparent impact associated with the historic pits, and no obvious historic oil and gas (or other industrial) operations appear to have occurred at the sampling locations. Each potential sampling location was observed to be in a natural condition with no obvious contaminant impacts. Since the potential outlier illustrated in the attached box plot was not found to be demonstrably erroneous or belonging to populations not representative of background conditions, the data was not excluded from the background dataset.

5.2 Statistical Values Used to Represent Background

Once the background datasets were established, Ranger evaluated various statistical values available for use as the BTV for site data comparison. Values commonly used to represent BTVs include the upper percentile, the upper prediction limit (UPL), the upper tolerance limit (UTL), and the upper simultaneous limit (USL). These are summarized below:

- **Upper Percentile:** An upper percentile is the value below which a specified percentage of observed background concentrations would fall. For example, the 95th percentile is the value below which 95% of observations may be found. Upper percentiles, when used for point-by-point comparison, can yield excessive false positive rates approaching 100%, which are exacerbated when dealing with small background datasets or background datasets consisting of multiple subpopulations.

- **Upper Prediction Limit (UPL):** The UPL is the value below which a specified number of future independent measurements (k) will fall, with a specified confidence level. For example, the 95% UPL of a single observation (k=1) is the concentration that theoretically will not be exceeded in a new or future measured background concentration with a 95% confidence level. Similar to the upper percentile, the use of UPL based on small background datasets (<50 measurements) with multiple subpopulations for point-by-point comparisons can lead to excessive false positive error rates.

- **Upper Tolerance Limit (UTL):** The UTL is the upper confidence limit (UCL) of an upper percentile of the observed values. A UTL is designated by its confidence and coverage. For example, a 95-95 UTL is the value below which 95% of the population will fall with 95% confidence. The 95-95 UTL has become the most common measure of BTV in practice.

- **Upper Simultaneous Limit (USL):** The USL represents a limit that no background concentration should exceed. The USL is specifically used to mitigate the issue of excessive false positive error rate in point-by-point comparisons. Since USLs represent an upper limit on the largest value of a dataset and can result in high false negative error rates, soil concentrations that represent actual contamination may not exceed the BTV. In other words, this could result in contaminated soils being considered as "background" soils.

Based upon the above, Ranger chose to utilize UTLs to establish the BTVs. Using UTLs is not likely to result in large false positive or false negative error rates. Ranger chose to utilize 95-95 UTLs representing the 95% upper confidence limit on the 95th percentile. As stated above, the 95-95 UTL has become the most common measure of BTV in practice.

5.3 Data Distribution

The ProUCL software was utilized to perform goodness of fit tests on the soil chloride datasets. ProUCL has goodness of fit tests for normal, lognormal, and gamma distributions. If data were determined to be normally distributed, then the 95-95 UTL assuming normal distribution was selected as the BTV. As summarized in the attached ProUCL spreadsheets, both datasets contained an assumed normal distribution. As such, Ranger selected these more conservative BTVs for proposed usage as the site-specific soil chloride background concentrations.

5.4 ProUCL Results – Proposed Site-Specific Background Levels

Below is a summary of the proposed site-specific background soil chloride concentrations (BTVs) calculated for the Site using the EPA ProUCL Version 5.1.0 statistical software. Copies of the ProUCL software BTV calculation spreadsheets are included in *Attachment 4*. It should be noted that in addition to the UTL values proposed for usage as the BTVs, the ProUCL spreadsheets also include (for reference) the upper percentile, UPL and USL calculations.

- ***Inex #3 (0'-4' Soils)*** – This normally distributed soil chloride dataset contained no non-detects. The 95-95 UTL assuming normal distribution was calculated to be 1,751 mg/Kg.

- ***Inex #3 (>4'-20' Soils)*** – This normally distributed soil chloride dataset contained no non-detects. The 95-95 UTL assuming normal distribution was calculated to be 1,242 mg/Kg.

Below is a summary of the proposed site-specific background soil chloride concentrations in table format. This table is also included in the *Tables* Section of the report.

PROPOSED SITE-SPECIFIC BACKGROUND SOIL CHLORIDE CONCENTRATIONS				
SITE	**SAMPLE DEPTH (ft)**	**RANGE OF SOIL CHLORIDE CONCENTRATIONS (mg/Kg)[1]**	**ASSUMED DISTRIBUTION**	**PROPOSED SITE-SPECIFIC BACKGROUND SOIL CHLORIDE CONCENTRATION (95-95 UTL/BTV)[2] (mg/Kg)**
Inex #3	0'-4'	32 – 1,500	Normal	1,751
	6'-20'	32 – 1,390	Normal	1,242

Notes:
[1] Determined by the November 6, 2023 background soil chloride investigations conducted, and the additional background sampling on November 9, 2023.
[2] All UTL values were calculated using the assumed distribution.

6.0 CONCLUSIONS AND RECOMMENDATIONS

- On November 6, 2023, representatives of EOG and Ranger conducted background soil chloride investigation activities at the subject Site in PLSS Township 18 South and Range 26 East. Additional background soil samples were collected on November 9, 2023.

- The USDA NRCS soil salinity data for the mapped soil unit at the Site (Reagan loam, saline, 0 to 1% slopes) indicated that saline soils were present ranging from very slightly saline (4.0 mmhos/cm) to strongly saline (16.0 mmhos/cm).

- To conduct the background soil studies, four 20-foot-deep test excavations were installed at background locations surrounding the Inex #3 well pad area, and soil samples were collected for laboratory analysis of chloride. Additional 0'-4' background soil samples were subsequently collected for laboratory analysis of chloride using a hand auger on November 9, 2023. Select soil samples from each test excavation and hand auger soil boring were further analyzed for TPH and BTEX to help ensure the absence of any contaminant impacts at the sampling locations.

- The analytical results from the background studies documented elevated background soil chloride concentrations with a maximum background chloride of 1,500 mg/Kg. All soil TPH and BTEX analytical results were documented to be below laboratory detection limits.

- Using the background soil chloride analytical data, Ranger calculated proposed site-specific background soil chloride concentrations (BTVs) for proposed usage in the development of the site delineation and remediation plans, and to help distinguish between contributions from the site-related impacts and the natural background conditions. The proposed background soil chloride concentrations were calculated using EPA ProUCL Version 5.1.0 statistical software.

- To calculate the site-specific BTVs, the background soil data were first subdivided into two datasets – one for the 0'-4' soils subject to both the 19.15.29.12 NMAC Table 1 Closure

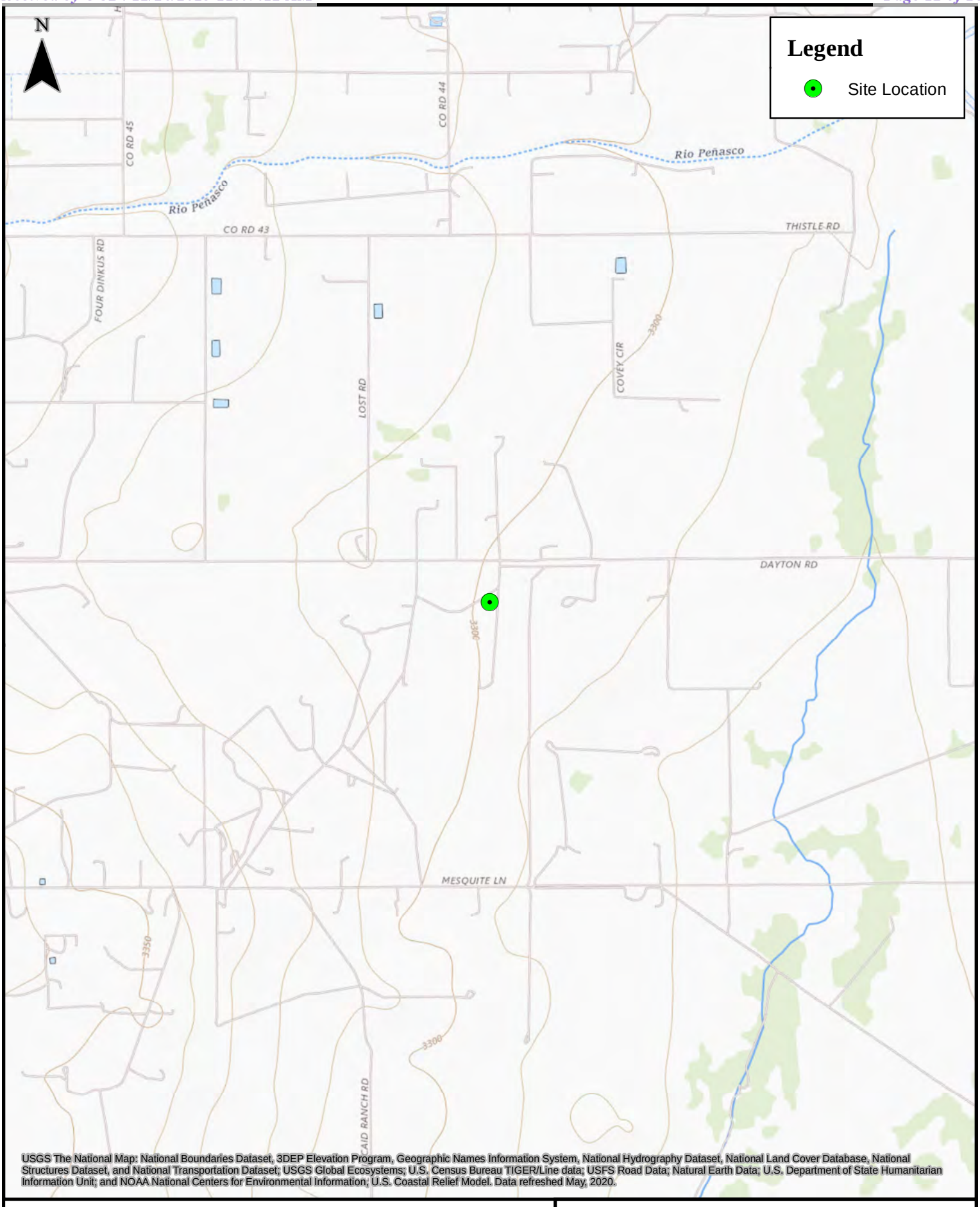
Criteria and the 19.15.29.13 NMAC Reclamation Criteria, and one for the underlying soils (>4'-20') subject to the 19.15.29.12 NMAC Table 1 Closure Criteria. The ProUCL software was subsequently utilized to evaluate potential outliers, determine dataset distributions, and calculate BTVs from the datasets.

- Various statistical values available for use as the BTV were evaluated for site data comparison. Ranger chose to utilize UTLs to establish the BTVs. Using UTLs is not likely to result in large false positive or false negative error rates. Ranger chose to utilize 95-95 UTLs representing the 95% upper confidence limit on the 95th percentile. The 95-95 UTL has become the most common measure of BTV in practice.

- The proposed site-specific background soil chloride concentrations (BTVs) are summarized in the attached *Proposed Site-Specific Background Soil Chloride Concentrations* table. These site-specific background levels are recommended to be utilized in the delineation and remediation of the subject site in lieu of the default 600 mg/Kg 19.15.29.12 NMAC Table 1 Closure Criteria and 19.15.29.13 NMAC Reclamation Criteria for chloride since the upper range of background soil chloride concentrations documented at the Site was significantly higher than this default cleanup level.

FIGURES

- Site Location Topographic Map
- Site Location Area Map
- Background Sample Location Map **(Inex #3)**

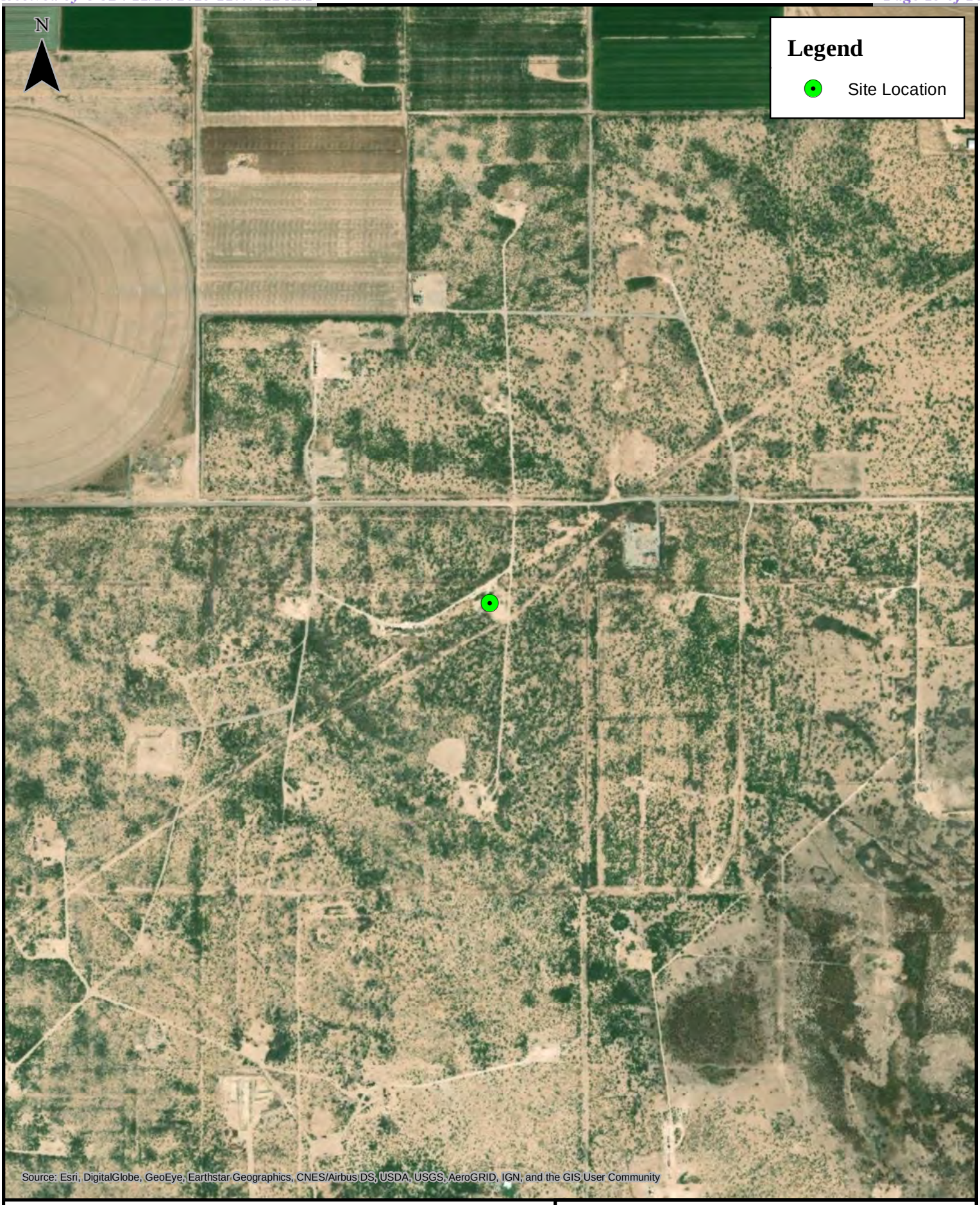


RANGER ENVIRONMENTAL SERVICES, INC.

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

1:24,000

Topographic Map
Inex #3
EOG Resources, Inc.

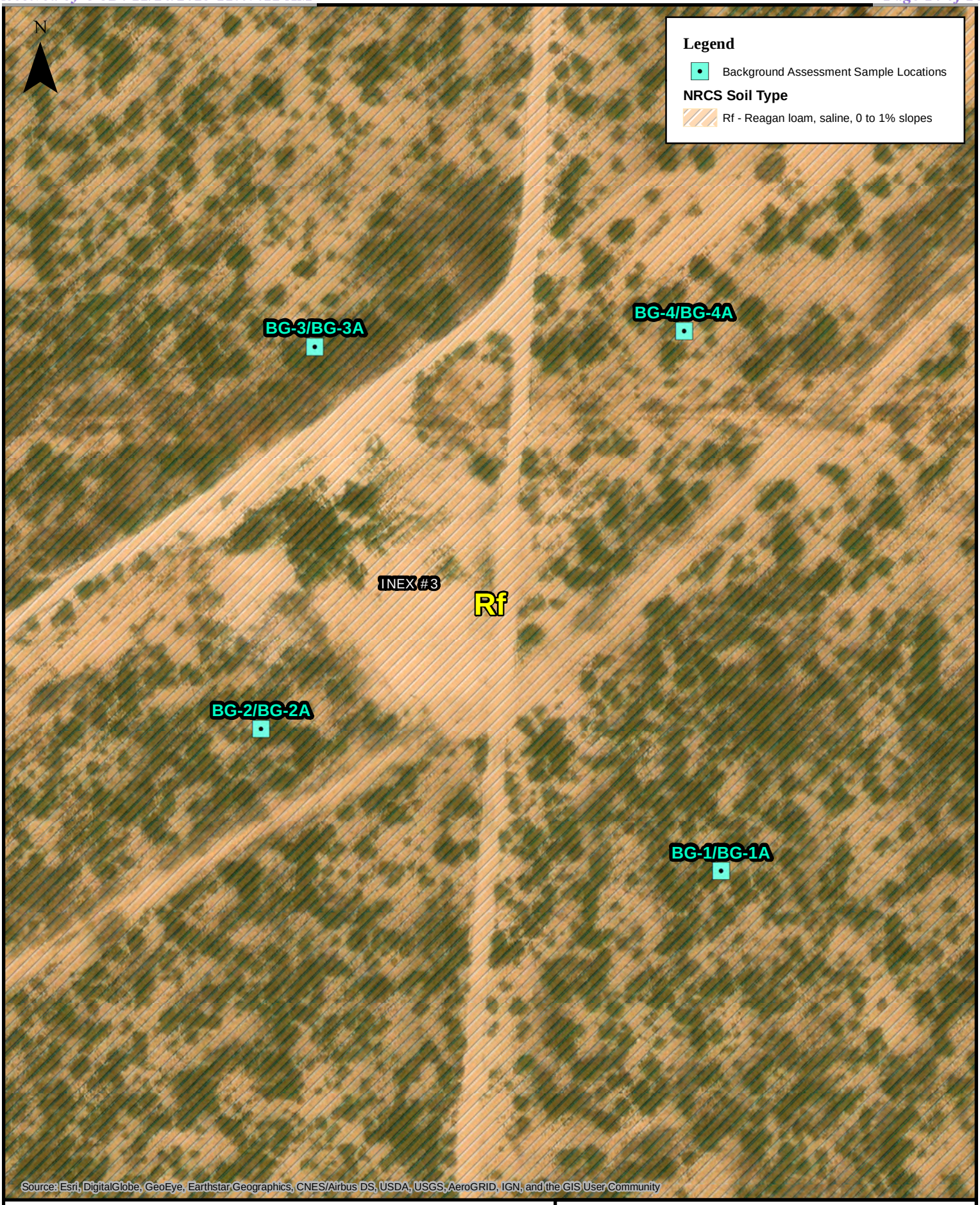


RANGER ENVIRONMENTAL SERVICES, INC.

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

1:10,000

Area Map
Inex #3
EOG Resources, Inc.



RANGER ENVIRONMENTAL SERVICES, LLC

0 30 60 120 180 240 Feet

1:1,250

Background Sample Location Map
Inex #3
EOG Resources, Inc.

TABLES

- Background Soil Sample BTEX, TPH & Chloride Analytical Data - Inex **#3**
- Proposed Site-Specific Background Soil Chloride Concentrations

BACKGROUND SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
EOG RESOURCES, INC.
INEX #3

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
Background Assessment Samples													
BG-1/2	11/6/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**608**
BG-1/4	11/6/2023	4'	---	---	---	---	---	---	---	---	---	---	560
BG-1/6	11/6/2023	6'	---	---	---	---	---	---	---	---	---	---	368
BG-1/8	11/6/2023	8'	---	---	---	---	---	---	---	---	---	---	528
BG-1/10	11/6/2023	10'	---	---	---	---	---	---	---	---	---	---	592
BG-1/12	11/6/2023	12'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**720**
BG-1/14	11/6/2023	14'	---	---	---	---	---	---	---	---	---	---	**848**
BG-1/16	11/6/2023	16'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**896**
BG-1/18	11/6/2023	18'	---	---	---	---	---	---	---	---	---	---	**752**
BG-1/20	11/6/2023	20'	---	---	---	---	---	---	---	---	---	---	496
BG-1A/2	11/9/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**672**
BG-1A/4	11/9/2023	4'	---	---	---	---	---	---	---	---	---	---	**800**
BG-2/2	11/6/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
BG-2/4	11/6/2023	4'	---	---	---	---	---	---	---	---	---	---	32
BG-2/6	11/6/2023	6'	---	---	---	---	---	---	---	---	---	---	48
BG-2/8	11/6/2023	8'	---	---	---	---	---	---	---	---	---	---	160
BG-2/10	11/6/2023	10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
BG-2/12	11/6/2023	12'	---	---	---	---	---	---	---	---	---	---	368
BG-2/14	11/6/2023	14'	---	---	---	---	---	---	---	---	---	---	544
BG-2/16	11/6/2023	16'	---	---	---	---	---	---	---	---	---	---	**624**
BG-2/18	11/6/2023	18'	---	---	---	---	---	---	---	---	---	---	544
BG-2/20	11/6/2023	20'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
BG-2A/2	11/9/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
BG-2A/4	11/9/2023	4'	---	---	---	---	---	---	---	---	---	---	**736**
BG-3/2	11/6/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
BG-3/4	11/6/2023	4'	---	---	---	---	---	---	---	---	---	---	32
BG-3/6	11/6/2023	6'	---	---	---	---	---	---	---	---	---	---	32
BG-3/8	11/6/2023	8'	---	---	---	---	---	---	---	---	---	---	48
BG-3/10	11/6/2023	10'	---	---	---	---	---	---	---	---	---	---	464
BG-3/12	11/6/2023	12'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**1,170**
BG-3/14	11/6/2023	14'	---	---	---	---	---	---	---	---	---	---	**1,390**
BG-3/16	11/6/2023	16'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**704**

BACKGROUND SOIL SAMPLE BTEX (EPA 8021), TPH (SW 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
EOG RESOURCES, INC.
INEX #3

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
BG-3/18	11/6/2023	18'	---	---	---	---	---	---	---	---	---	---	368
BG-3/20	11/6/2023	20'	---	---	---	---	---	---	---	---	---	---	384
BG-3A/2	11/9/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**1,020**
BG-3A/4	11/9/2023	4'	---	---	---	---	---	---	---	---	---	---	**800**
BG-4/2	11/6/2023	2'	---	---	---	---	---	---	---	---	---	---	**864**
BG-4/4	11/6/2023	4'	---	---	---	---	---	---	---	---	---	---	**816**
BG-4/6	11/6/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**1,090**
BG-4/8	11/6/2023	8'	---	---	---	---	---	---	---	---	---	---	**752**
BG-4/10	11/6/2023	10'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**656**
BG-4/12	11/6/2023	12'	---	---	---	---	---	---	---	---	---	---	496
BG-4/14	11/6/2023	14'	---	---	---	---	---	---	---	---	---	---	**720**
BG-4/16	11/6/2023	16'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
BG-4/18	11/6/2023	18'	---	---	---	---	---	---	---	---	---	---	528
BG-4/20	11/6/2023	20'	---	---	---	---	---	---	---	---	---	---	592
BG-4A/2	11/9/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**1,200**
BG-4A/4	11/9/2023	4'	---	---	---	---	---	---	---	---	---	---	**1,500**
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW <50') & 19.15.29.13 NMAC Reclamation Criteria			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**		**100**	**600**

Notes:

1. Results exceeding the Table 1 Criteria are presented in bold type and are highlighted yellow.

PROPOSED SITE-SPECIFIC BACKGROUND SOIL CHLORIDE CONCENTRATIONS

SITE	SAMPLE DEPTH (ft)	RANGE OF SOIL CHLORIDE CONCENTRATIONS (mg/Kg)[1]	ASSUMED DISTRIBUTION	PROPOSED SITE-SPECIFIC BACKGROUND SOIL CHLORIDE CONCENTRATION (95-95 UTL/BTV)[2] (mg/Kg)
Inex #3	0'-4'	32 - 1,500	Normal	1,751
	6'-20'	32 - 1,390	Normal	1,242

Notes:

[1] Determined by the November 6 - 9, 2023 background soil chloride investigations conducted at the subject site.

[2] All UTL values were calculated using the assumed distribution.

ATTACHMENT 1 – LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

CARDINAL Laboratories

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

November 08, 2023

WILL KIERDORF

RANGER ENVIRONMENTAL SERVICES, INC.

PO BOX 201179

AUSTIN, TX 78729

RE: INEX #3

Enclosed are the results of analyses for samples received by the laboratory on 11/07/23 9:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 1/2' (H236083-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**608**	16.0	11/07/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *75.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *66.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 1/4' (H236083-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	11/07/2023	ND	432	108	400	7.69	

Sample ID: BG - 1/6' (H236083-03)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	11/07/2023	ND	432	108	400	7.69	

Sample ID: BG - 1/8' (H236083-04)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**528**	16.0	11/07/2023	ND	432	108	400	7.69	

Sample ID: BG - 1/10' (H236083-05)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	11/07/2023	ND	432	108	400	7.69	

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Celey D. Keene, Lab Director/Quality Manager

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RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 1/12' (H236083-06)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**720**	16.0	11/07/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *77.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *69.6 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 1/14' (H236083-07)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	11/07/2023	ND	432	108	400	7.69	

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CARDINAL Laboratories

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Analytical Results For:

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WILL KIERDORF
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AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 1/16' (H236083-08)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**896**	16.0	11/07/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *80.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *72.1 %* *49.1-148*

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WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 1/18' (H236083-09)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**752**	16.0	11/07/2023	ND	432	108	400	7.69	

Sample ID: BG - 1/20' (H236083-10)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**496**	16.0	11/07/2023	ND	432	108	400	7.69	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 2/2' (H236083-11)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/07/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *86.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *74.2 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 2/4' (H236083-12)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/07/2023	ND	432	108	400	7.69	

Sample ID: BG - 2/6' (H236083-13)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	11/07/2023	ND	432	108	400	7.69	

Sample ID: BG - 2/8' (H236083-14)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	11/07/2023	ND	432	108	400	7.69	

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Celey D. Keene, Lab Director/Quality Manager

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AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 2/10' (H236083-15)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	11/07/2023	ND	432	108	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *86.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.0 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 2/12' (H236083-16)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	11/07/2023	ND	432	108	400	7.69	

Sample ID: BG - 2/14' (H236083-17)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	11/07/2023	ND	432	108	400	3.77	

Sample ID: BG - 2/16' (H236083-18)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	11/07/2023	ND	432	108	400	3.77	

Sample ID: BG - 2/18' (H236083-19)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	11/07/2023	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 2/20' (H236083-20)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**448**	16.0	11/07/2023	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *87.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *79.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 3/2' (H236083-21)

BTEX 8021B mg/kg **Analyzed By: JH/**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/07/2023	ND	432	108	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *78.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *69.3 %* *49.1-148*

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WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 3/4' (H236083-22)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/07/2023	ND	432	108	400	3.77	

Sample ID: BG - 3/6' (H236083-23)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/07/2023	ND	432	108	400	3.77	

Sample ID: BG - 3/8' (H236083-24)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	11/07/2023	ND	432	108	400	3.77	

Sample ID: BG - 3/10' (H236083-25)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	11/07/2023	ND	432	108	400	3.77	

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 3/12' (H236083-26)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1170**	16.0	11/07/2023	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *91.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *80.7 %* *49.1-148*

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RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 3/14' (H236083-27)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1390**	16.0	11/07/2023	ND	432	108	400	3.77	

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 3/16' (H236083-28)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	11/07/2023	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *96.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.8 %* *49.1-148*

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 3/18' (H236083-29)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	11/07/2023	ND	432	108	400	3.77	

Sample ID: BG - 3/20' (H236083-30)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	11/07/2023	ND	432	108	400	3.77	

Sample ID: BG - 4/2' (H236083-31)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**864**	16.0	11/07/2023	ND	432	108	400	3.77	

Sample ID: BG - 4/4' (H236083-32)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**816**	16.0	11/07/2023	ND	432	108	400	3.77	

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 4/6' (H236083-33)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1090**	16.0	11/07/2023	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *86.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.8 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 4/8' (H236083-34)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**752**	16.0	11/07/2023	ND	432	108	400	3.77	

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Analytical Results For:

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WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 4/10' (H236083-35)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**656**	16.0	11/07/2023	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	211	105	200	2.76	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	194	97.0	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *71.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *64.5 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 4/12' (H236083-36)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**496**	16.0	11/07/2023	ND	432	108	400	3.77	

Sample ID: BG - 4/14' (H236083-37)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**720**	16.0	11/07/2023	ND	416	104	400	0.00	

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CARDINAL Laboratories

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 4/16' (H236083-38)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2023	ND	2.16	108	2.00	8.74	
Toluene*	<0.050	0.050	11/07/2023	ND	2.04	102	2.00	8.71	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.19	109	2.00	8.65	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.50	108	6.00	9.10	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	11/07/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2023	ND	213	106	200	0.467	
DRO >C10-C28*	<10.0	10.0	11/07/2023	ND	198	98.9	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	11/07/2023	ND					

Surrogate: 1-Chlorooctane *89.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.3 %* *49.1-148*

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Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/07/2023	Sampling Date:	11/06/2023
Reported:	11/08/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	Cool & Intact
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 4/18' (H236083-39)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**528**	16.0	11/07/2023	ND	416	104	400	0.00	

Sample ID: BG - 4/20' (H236083-40)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	11/07/2023	ND	416	104	400	0.00	

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Notes and Definitions

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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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Ranger Environmental Services, Inc.
Project Manager:	Will Kierdorf
Address:	PO Box 201179
City:	Austin **State:** TX **Zip:** 78720
Phone #:	512-497-1556 **Fax #:** 512-335-0527
Project #:	5375 **Project Owner:**
Project Name:	Inex #3
Project Location:	Rural Eddy County, NM
Sampler Name:	J. Martinez

BILL TO

P.O. #:	
Company:	EOG Resources
Attn:	Chase Settle
Address:	104 S. 4th Street
City:	Artesia
State: NM **Zip:**	88210
Phone #:	575-748-1471
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH: 8015 EXT	BTEX 8021B/5030 or BTEX 8260	Chloride (SM 4500)	HOLD
H936083																		
1	BG-1/2'	G	1			X					X		11-06-23	0848	X	X	X	
2	BG-1/4'	G	1			X					X			0852			X	
3	BG-1/6'	G	1			X					X			0854			X	
4	BG-1/8'	G	1			X					X			0856			X	
5	BG-1/10'	G	1			X					X			0900			X	
6	BG-1/12'	G	1			X					X			0910	X	X	X	
7	BG-1/14'	G	1			X					X			0914			X	
8	BG-1/16'	G	1			X					X			0920	X	X	X	
9	BG-1/18'	G	1			X					X			0924			X	
10	BG-1/20'	G	1			X					X			0930			X	

Relinquished By:	**Date:** 11-07-23 **Time:** 0909	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	**Date:** **Time:**	**Received By:**	Fax Result: ☐ Yes ☐ No Add'l Fax #:
			REMARKS: Please hold the following samples pending initial results:

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.7c #140

Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No

CHECKED BY: (Initials) SR

24 hr return

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

FORM-006 R 2.0

2054

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Ranger Environmental Services, Inc.
Project Manager:	Will Kierdorf
Address:	PO Box 201179
City:	Austin **State:** TX **Zip:** 78720
Phone #:	512-497-1556 **Fax #:** 512-335-0527
Project #:	5375 **Project Owner:**
Project Name:	Inex #3
Project Location:	Rural Eddy County, NM
Sampler Name:	J. Martinez

BILL TO

P.O. #:	
Company:	EOG Resources
Attn:	Chase Settle
Address:	104 S. 4th Street
City:	Artesia
State: NM	**Zip:** 88210
Phone #:	575-748-1471
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH: 8015 EXT	BTEX 8021B/5030 or BTEX 8260	Chloride (SM 4500)	HOLD
H231083																		
11	BG-2/2'	G	1			X					X		11-06-23	0954	X	X	X	
12	BG-2/4'	G	1			X					X			0956			X	
13	BG-2/6'	G	1			X					X			0958			X	
14	BG-2/8'	G	1			X					X			1010			X	
15	BG-2/10'	G	1			X					X			1012	X	X	X	
16	BG-2/12'	G	1			X					X			1014			X	
17	BG-2/14'	G	1			X					X			1020			X	
18	BG-2/16'	G	1			X					X			1026			X	
19	BG-2/18'	G	1			X					X			1030			X	
20	BG-2/20'	G	1			X					X			1038	X	X	X	

Relinquished By:	**Date:** 11-07-23	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 0909		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	**REMARKS:** Please hold the following samples pending initial results:
	Time:		

Delivered By: (Circle One) 5-7c #140
Sampler - UPS - Bus - Other:

Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No

CHECKED BY: (Initials) SR

24 hr return

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

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Ranger Environmental Services, Inc.	**BILL TO**	
Project Manager:	Will Kierdorf	**P.O. #:**	
Address:	PO Box 201179	**Company:**	EOG Resources
City:	Austin **State:** TX **Zip:** 78720	**Attn:**	Chase Settle
Phone #:	512-497-1556 **Fax #:** 512-335-0527	**Address:**	104 S. 4th Street
Project #:	5375 **Project Owner:**	**City:**	Artesia
Project Name:	Inex #3	**State:** NM **Zip:** 88210	
Project Location:	Rural Eddy County, NM	**Phone #:**	575-748-1471
Sampler Name:	J. Martinez	**Fax #:**	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH: 8015 EXT	BTEX 8021B/5030 or BTEX 8260	Chloride (SM 4500)	HOLD
H230083																		
21	BG-3/2'	G	1			X					X		11-06-23	1112	X	X	X	
22	BG-3/4'	G	1			X					X			1114			X	
23	BG-3/6'	G	1			X					X			1116			X	
24	BG-3/8'	G	1			X					X			1120			X	
25	BG-3/10'	G	1			X					X			1122			X	
26	BG-3/12'	G	1			X					X			1124	X	X	X	
27	BG-3/14'	G	1			X					X			1128			X	
28	BG-3/16'	G	1			X					X			1132	X	X	X	
29	BG-3/18'	G	1			X					X			1136			X	
30	BG-3/20'	G	1			X					X			1140			X	

Relinquished By:	**Date:** 11-07-23	**Received By:**	**Phone Result:** ☐ Yes ☐ No **Add'l Phone #:**
	Time: 0909		**Fax Result:** ☐ Yes ☐ No **Add'l Fax #:**
Relinquished By:	**Date:**	**Received By:**	**REMARKS:** Please hold the following samples pending initial results:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other: S-T-C #140

Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No

CHECKED BY: (Initials)

24 hr return

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Ranger Environmental Services, Inc.	**BILL TO**	
Project Manager:	Will Kierdorf	**P.O. #:**	
Address:	PO Box 201179	**Company:**	EOG Resources
City:	Austin **State:** TX **Zip:** 78720	**Attn:**	Chase Settle
Phone #:	512-497-1556 **Fax #:** 512-335-0527	**Address:**	104 S. 4th Street
Project #:	5375 **Project Owner:**	**City:**	Artesia
Project Name:	Inex #3	**State:** NM **Zip:** 88210	
Project Location:	Rural Eddy County, NM	**Phone #:**	575-748-1471
Sampler Name:	J. Martinez	**Fax #:**	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	TIME	TPH: 8015 EXT	BTEX 8021B/5030 or BTEX 8260	Chloride (SM 4500)	HOLD
H233083																		
31	BG-4/2'	G	1			X					X		11-06-23	1302			X	
32	BG-4/4'	G	1			X					X			1304			X	
33	BG-4/6'	G	1			X					X			1306	X	X	X	
34	BG-4/8'	G	1			X					X			1308			X	
35	BG-4/10'	G	1			X					X			1312	X	X	X	
36	BG-4/12'	G	1			X					X			1316			X	
37	BG-4/14'	G	1			X					X			1320			X	
38	BG-4/16'	G	1			X					X			1330	X	X	X	
39	BG-4/18'	G	1			X					X			1334			X	
40	BG-4/20'	G	1			X					X			1342			X	

Relinquished By:	**Date:** 11-09-23	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 0909		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	**REMARKS:** Please hold the following samples pending initial results:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5-7: #140

Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No

CHECKED BY: (Initials) SR

24 hr return

FORM-006 R 2.0

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CARDINAL Laboratories

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

November 10, 2023

WILL KIERDORF

RANGER ENVIRONMENTAL SERVICES, INC.

PO BOX 201179

AUSTIN, TX 78729

RE: INEX #3

Enclosed are the results of analyses for samples received by the laboratory on 11/09/23 15:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	** (See Notes)
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 4A/2' (H236164-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2023	ND	1.87	93.5	2.00	8.87	
Toluene*	<0.050	0.050	11/09/2023	ND	1.97	98.4	2.00	9.01	
Ethylbenzene*	<0.050	0.050	11/09/2023	ND	1.98	99.2	2.00	9.58	
Total Xylenes*	<0.150	0.150	11/09/2023	ND	6.02	100	6.00	9.78	
Total BTEX	<0.300	0.300	11/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1220**	16.0	11/10/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane *117 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *121 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	** (See Notes)
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 4A/4' (H236164-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2023	ND	1.87	93.5	2.00	8.87	
Toluene*	<0.050	0.050	11/09/2023	ND	1.97	98.4	2.00	9.01	
Ethylbenzene*	<0.050	0.050	11/09/2023	ND	1.98	99.2	2.00	9.58	
Total Xylenes*	<0.150	0.150	11/09/2023	ND	6.02	100	6.00	9.78	
Total BTEX	<0.300	0.300	11/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1500**	16.0	11/10/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane *127 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *130 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	** (See Notes)
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 3A/2' (H236164-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2023	ND	1.87	93.5	2.00	8.87	
Toluene*	<0.050	0.050	11/09/2023	ND	1.97	98.4	2.00	9.01	
Ethylbenzene*	<0.050	0.050	11/09/2023	ND	1.98	99.2	2.00	9.58	
Total Xylenes*	<0.150	0.150	11/09/2023	ND	6.02	100	6.00	9.78	
Total BTEX	<0.300	0.300	11/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1020**	16.0	11/10/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane *120 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	** (See Notes)
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 3A/4' (H236164-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2023	ND	1.87	93.5	2.00	8.87	
Toluene*	<0.050	0.050	11/09/2023	ND	1.97	98.4	2.00	9.01	
Ethylbenzene*	<0.050	0.050	11/09/2023	ND	1.98	99.2	2.00	9.58	
Total Xylenes*	<0.150	0.150	11/09/2023	ND	6.02	100	6.00	9.78	
Total BTEX	<0.300	0.300	11/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**800**	16.0	11/10/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane *117 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *118 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	** (See Notes)
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 2A/2' (H236164-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2023	ND	1.87	93.5	2.00	8.87	
Toluene*	<0.050	0.050	11/09/2023	ND	1.97	98.4	2.00	9.01	
Ethylbenzene*	<0.050	0.050	11/09/2023	ND	1.98	99.2	2.00	9.58	
Total Xylenes*	<0.150	0.150	11/09/2023	ND	6.02	100	6.00	9.78	
Total BTEX	<0.300	0.300	11/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	11/10/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	** (See Notes)
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 2A/4' (H236164-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2023	ND	2.07	104	2.00	0.00777	
Toluene*	<0.050	0.050	11/09/2023	ND	2.17	109	2.00	0.204	
Ethylbenzene*	<0.050	0.050	11/09/2023	ND	2.19	110	2.00	0.139	
Total Xylenes*	<0.150	0.150	11/09/2023	ND	6.67	111	6.00	1.42	
Total BTEX	<0.300	0.300	11/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**736**	16.0	11/10/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	** (See Notes)
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 1A/2' (H236164-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2023	ND	2.07	104	2.00	0.00777	
Toluene*	<0.050	0.050	11/09/2023	ND	2.17	109	2.00	0.204	
Ethylbenzene*	<0.050	0.050	11/09/2023	ND	2.19	110	2.00	0.139	
Total Xylenes*	<0.150	0.150	11/09/2023	ND	6.67	111	6.00	1.42	
Total BTEX	<0.300	0.300	11/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**672**	16.0	11/10/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

RANGER ENVIRONMENTAL SERVICES, INC.
WILL KIERDORF
PO BOX 201179
AUSTIN TX, 78729
Fax To: (512) 335-0527

Received:	11/09/2023	Sampling Date:	11/09/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	INEX #3	Sampling Condition:	** (See Notes)
Project Number:	5375	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - RURAL EDDY COUNTY, NM		

Sample ID: BG - 1A/4' (H236164-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	104	2.00	0.00777	
Toluene*	<0.050	0.050	11/10/2023	ND	2.17	109	2.00	0.204	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	110	2.00	0.139	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.67	111	6.00	1.42	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**800**	16.0	11/10/2023	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	192	96.0	200	0.0511	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	193	96.3	200	0.499	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

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Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name:	Ranger Environmental Services, Inc.	**BILL TO**	
Project Manager:	Will Kierdorf	**P.O. #:**	
Address:	PO Box 201179	**Company:**	EOG Resources
City:	Austin **State:** TX **Zip:** 78720	**Attn:**	Chase Settle
Phone #:	512-497-1556 **Fax #:** 512-335-0527	**Address:**	104 S. 4th Street
Project #:	5375 **Project Owner:**	**City:**	Artesia
Project Name:	Inex #3	**State:** NM **Zip:** 88210	
Project Location:	Rural Eddy County, NM	**Phone #:**	575-748-1471
Sampler Name:	J. Martinez	**Fax #:**	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH: 8015 EXT	BTEX 8021B/5030 or BTEX 8260	Chloride (SM 4500)	HOLD
H231164																		
1	BG-4A/0'	G	1			X					X		11-9	1020				X
2	BG-4A/1'	G	1											1022				X
3	BG-4A/2'	G	1											1024	X	X	X	
4	BG-4A/3'	G	1											1026				X
5	BG-4A/4'	G	1											1028	X	X	X	
6	BG-3A/0'	G	1											1135				X
7	BG-3A/1'	G	1											1140				X
8	BG-3A/2'	G	1											1142	X	X	X	
9	BG-3A/3'	G	1											1144				X
10	BG-3A/4'	G	1											1146	X	X	X	

Relinquished By:	**Date:** 11-09-23	**Received By:**	
	Time: 1543		
Relinquished By:	**Date:**	**Received By:**	
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 9.0° #140

Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No

CHECKED BY: (Initials)

Phone Result:	☐ Yes ☐ No	**Add'l Phone #:**	
Fax Result:	☐ Yes ☐ No	**Add'l Fax #:**	

REMARKS:

Please hold the following samples pending initial results:

TEMP BLANK: 3.2°

24 hr Return.

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

FORM-006 R 2.0

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name:	Ranger Environmental Services, Inc.	**BILL TO**	
Project Manager:	Will Kierdorf	**P.O. #:**	
Address:	PO Box 201179	**Company:**	EOG Resources
City:	Austin **State:** TX **Zip:** 78720	**Attn:**	Chase Settle
Phone #:	512-497-1556 **Fax #:** 512-335-0527	**Address:**	104 S. 4th Street
Project #:	5375 **Project Owner:**	**City:**	Artesia
Project Name:	Inex #3	**State:** NM **Zip:** 88210	
Project Location:	Rural Eddy County, NM	**Phone #:**	575-748-1471
Sampler Name:	J. Martinez	**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH: 8015 EXT	BTEX 8021B/5030 or BTEX 8260	Chloride (SM 4500)												HOLD
H23611 64																													
11	BG-2A/0'	G	1			X					X		11-09-23	1116															X
12	BG-2A/1'	G	1											1122																X
13	BG-2A/2'	G	1											1124	X	X	X													
14	BG-2A/3'	G	1											1126																X
15	BG-2A/4'	G	1											1128	X	X	X													
16	BG-1A/0'	G	1											1100																X
17	BG-1A/1'	G	1											1102																X
18	BG-1A/2'	G	1											1104	X	X	X													
19	BG-1A/3'	G	1											1106																X
20	BG-1A/4'	G	1											1108	X	X	X													

Relinquished By:	**Date:** 11-09-23	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1543		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	**REMARKS:**
	Time:		Please hold the following samples pending initial results:
Delivered By: (Circle One)	Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No	**CHECKED BY: (Initials)**	TEMP BLANK: 3.2°
Sampler - UPS - Bus - Other: #140			24 hr Return

FORM-006 R 2.0

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

ATTACHMENT 2 – **USDA** NRCS CUSTOM SOIL RESOURCE REPORT

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

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

Custom Soil Resource Report for Eddy Area, New Mexico

Inex #3 Soil Report

November 13, 2023

Preface

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

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

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

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

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

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

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Contents

How Soil Surveys Are Made

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

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

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

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

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

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

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

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

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

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

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

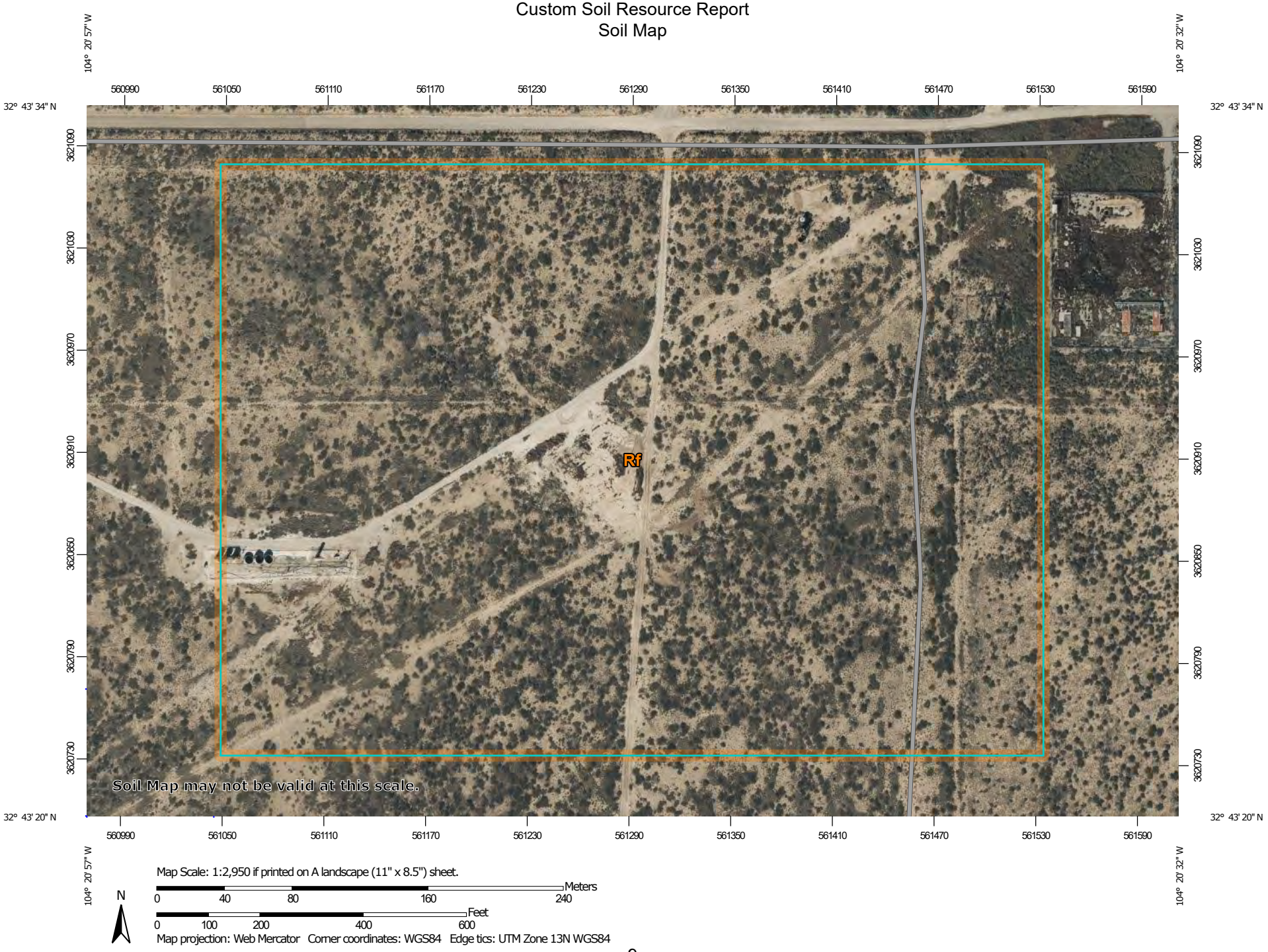
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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

Soil Map

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

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

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

Background

- Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

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

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Rf	Reagan loam, saline, 0 to 1 percent slopes	41.8	100.0%
Totals for Area of Interest		**41.8**	**100.0%**

Map Unit Descriptions

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

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

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

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

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

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

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

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

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

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

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

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

Eddy Area, New Mexico

Rf—Reagan loam, saline, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w5n
Elevation: 2,150 to 5,300 feet
Mean annual precipitation: 10 to 17 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 200 to 235 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 96 percent
Minor components: 4 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

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

Typical profile

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

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Slightly saline to strongly saline (4.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 10.0
Available water supply, 0 to 60 inches: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Reagan nonsaline

Percent of map unit: 1 percent

Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Reagan saline

Percent of map unit: 1 percent
Ecological site: R070BC036NM - Salt Flats
Hydric soil rating: No

Gypsum land

Percent of map unit: 1 percent
Hydric soil rating: No

Reeves

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

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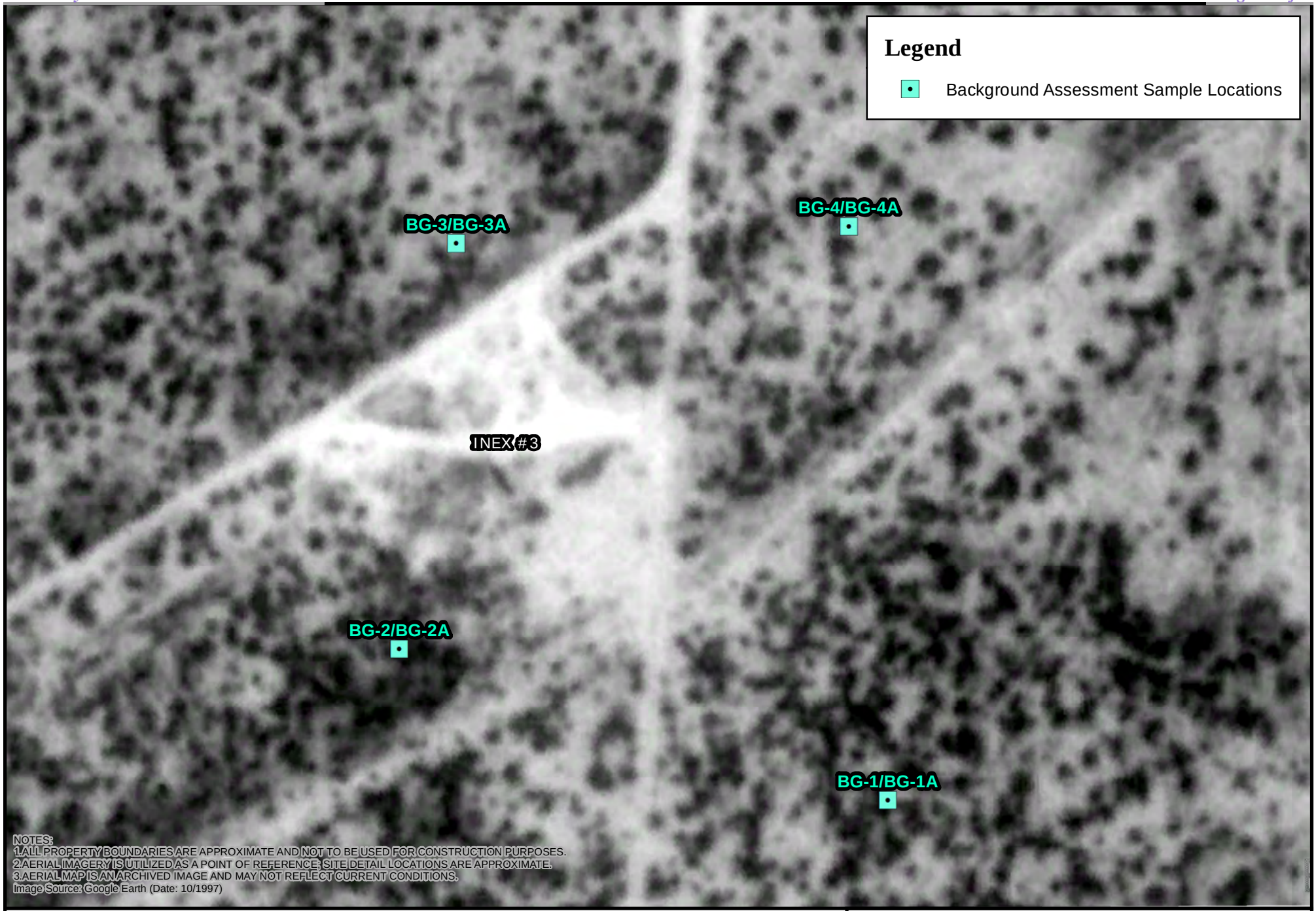
ATTACHMENT 3 – HISTORIC AERIAL PHOTOGRAPHS



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Historic Aerial (1997)
Inex #3
EOG Resources, Inc.

RANGER ENVIRONMENTAL SERVICES, LLC

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1:1,200

N

Historic Aerial (2005)
Inex #3
EOG Resources, Inc.

RANGER ENVIRONMENTAL SERVICES, LLC

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N

Historic Aerial (2006)
Inex #3
EOG Resources, Inc.

RANGER ENVIRONMENTAL SERVICES, LLC

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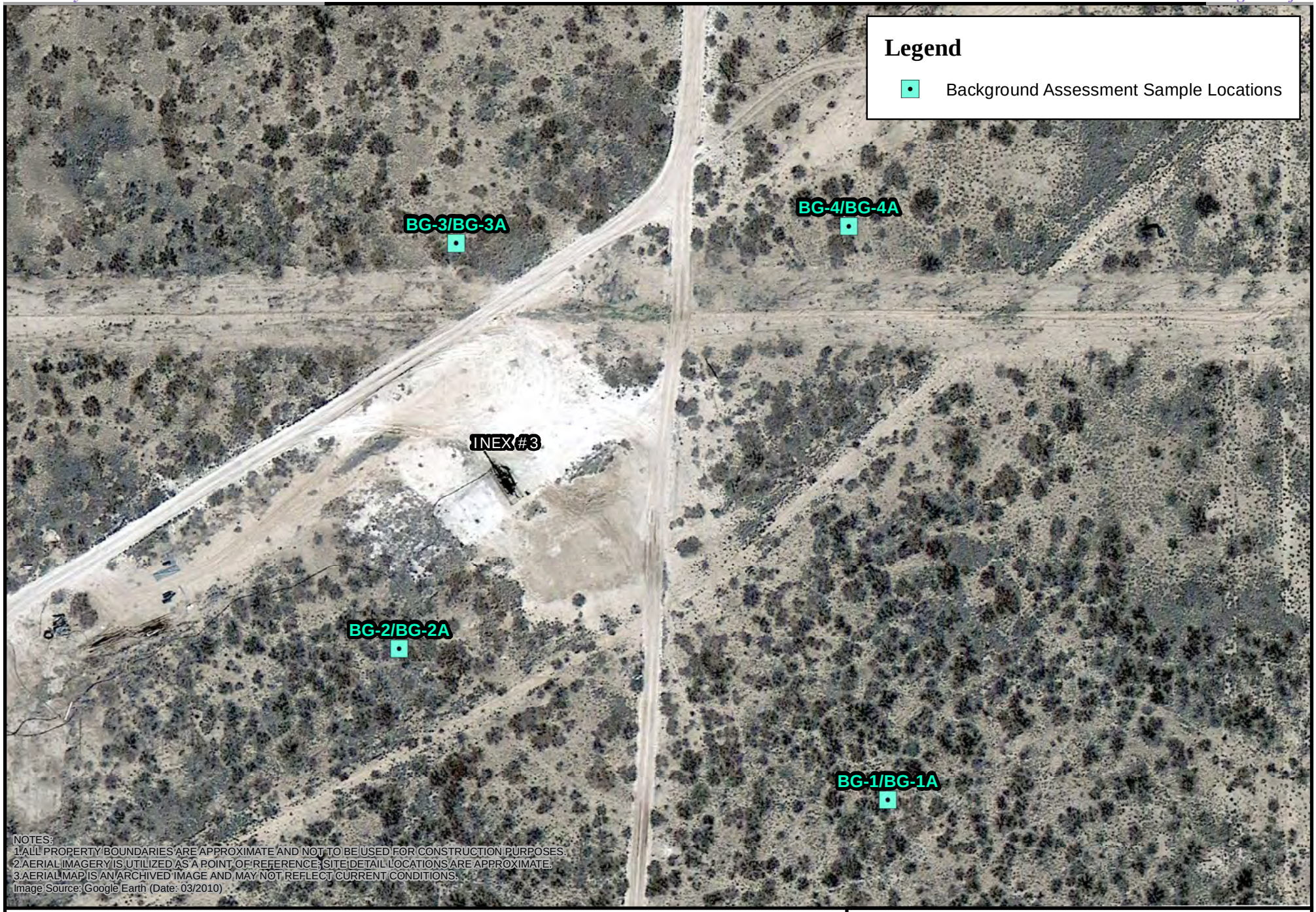
EOG Resources, Inc.



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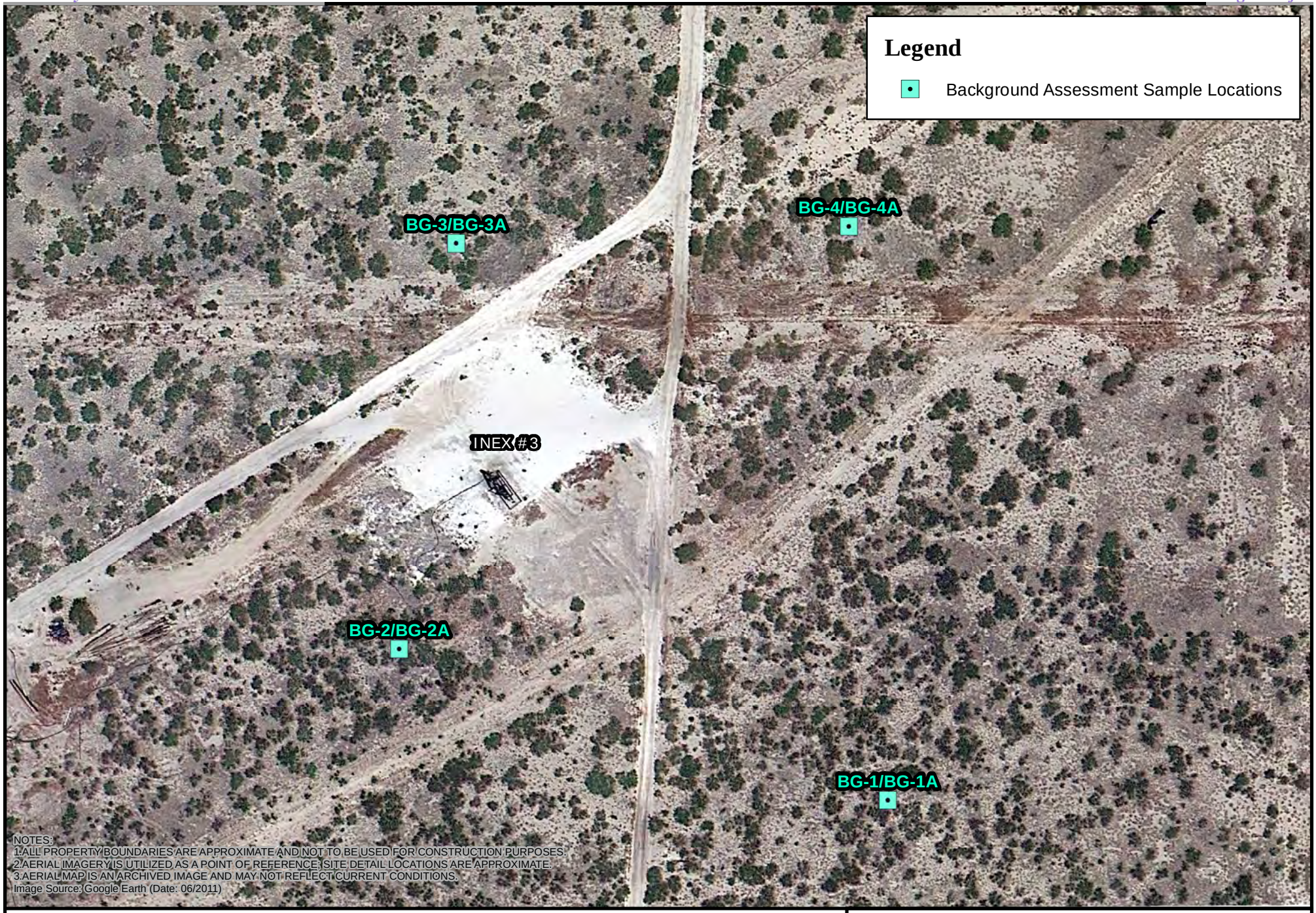

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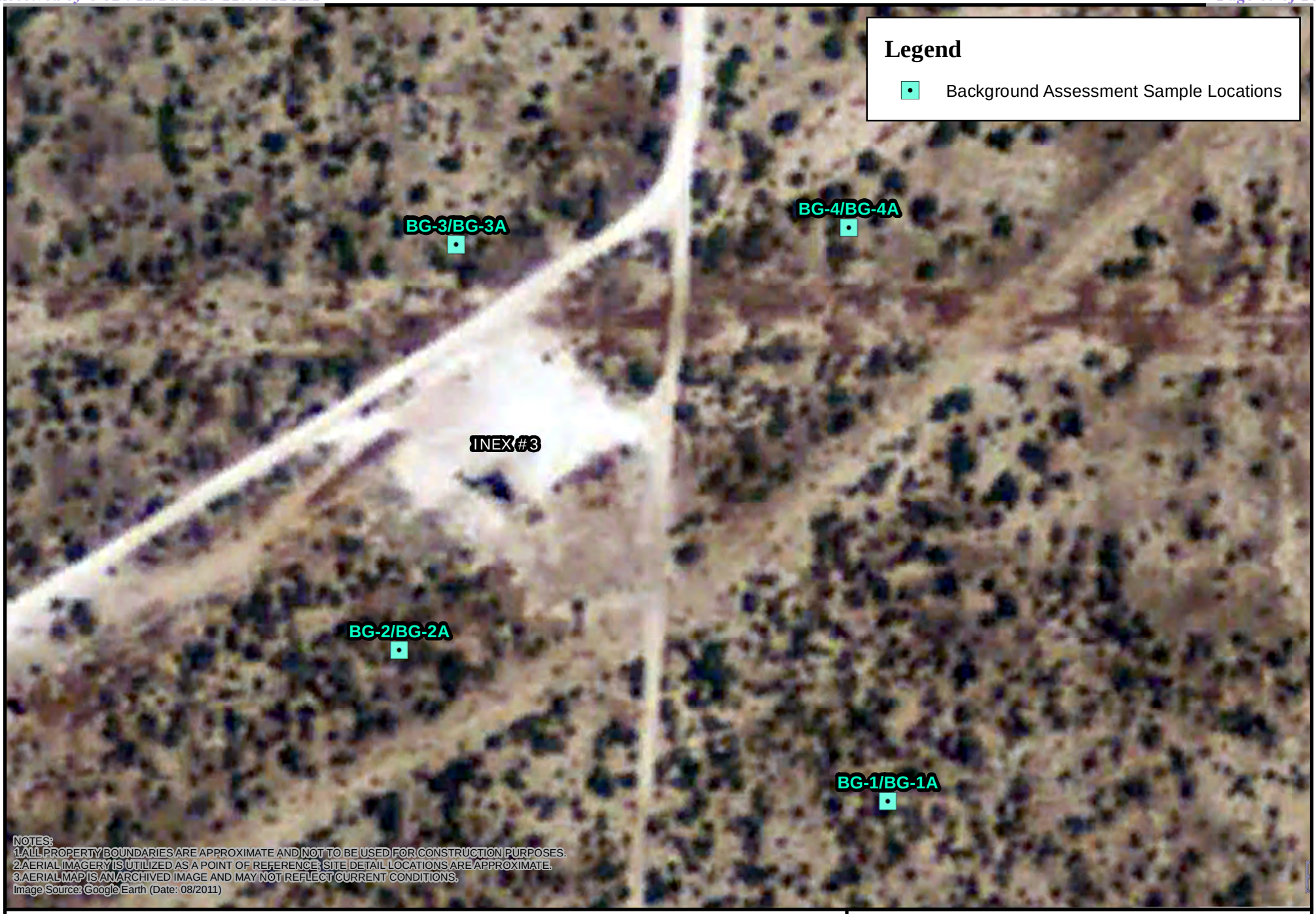

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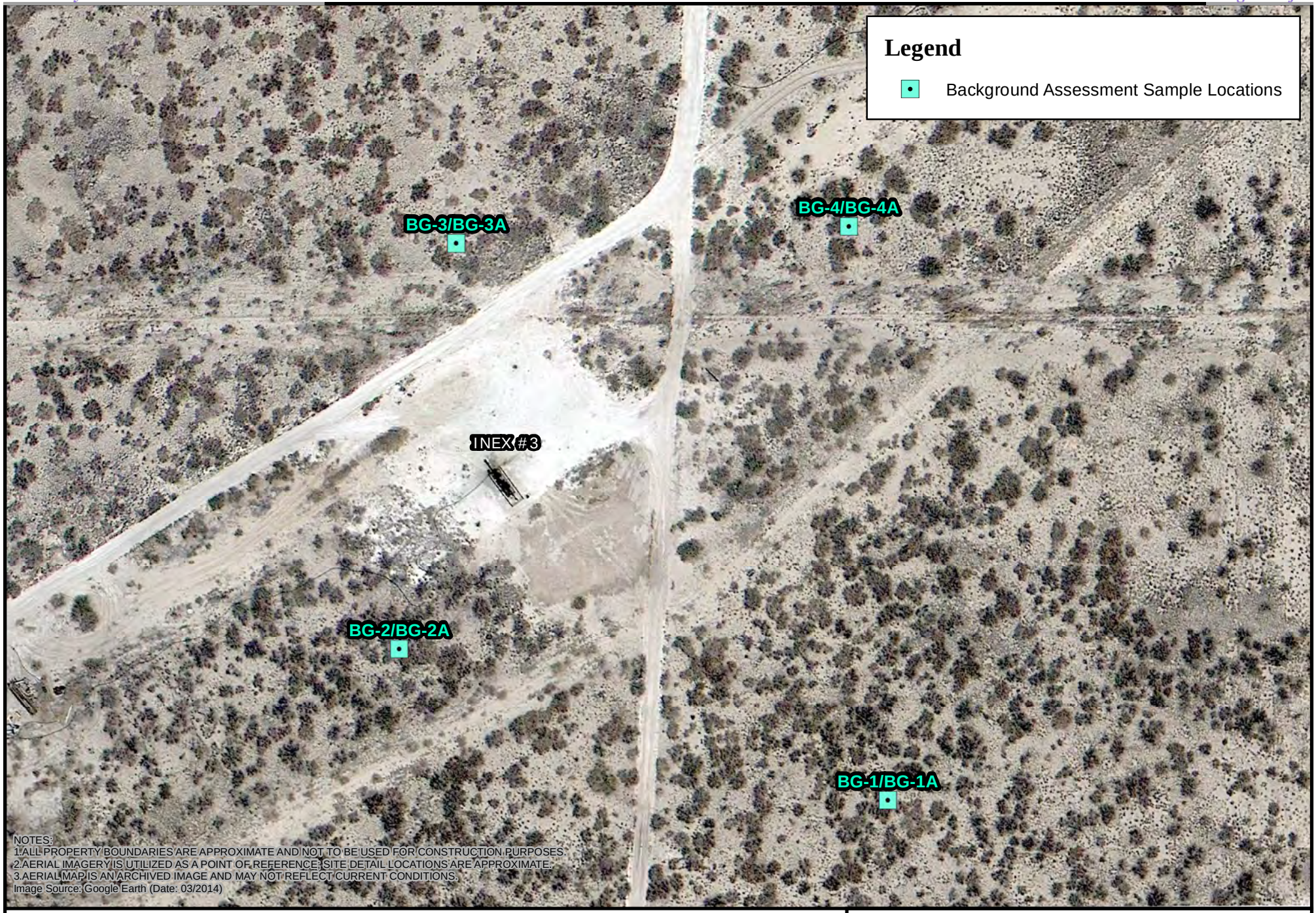

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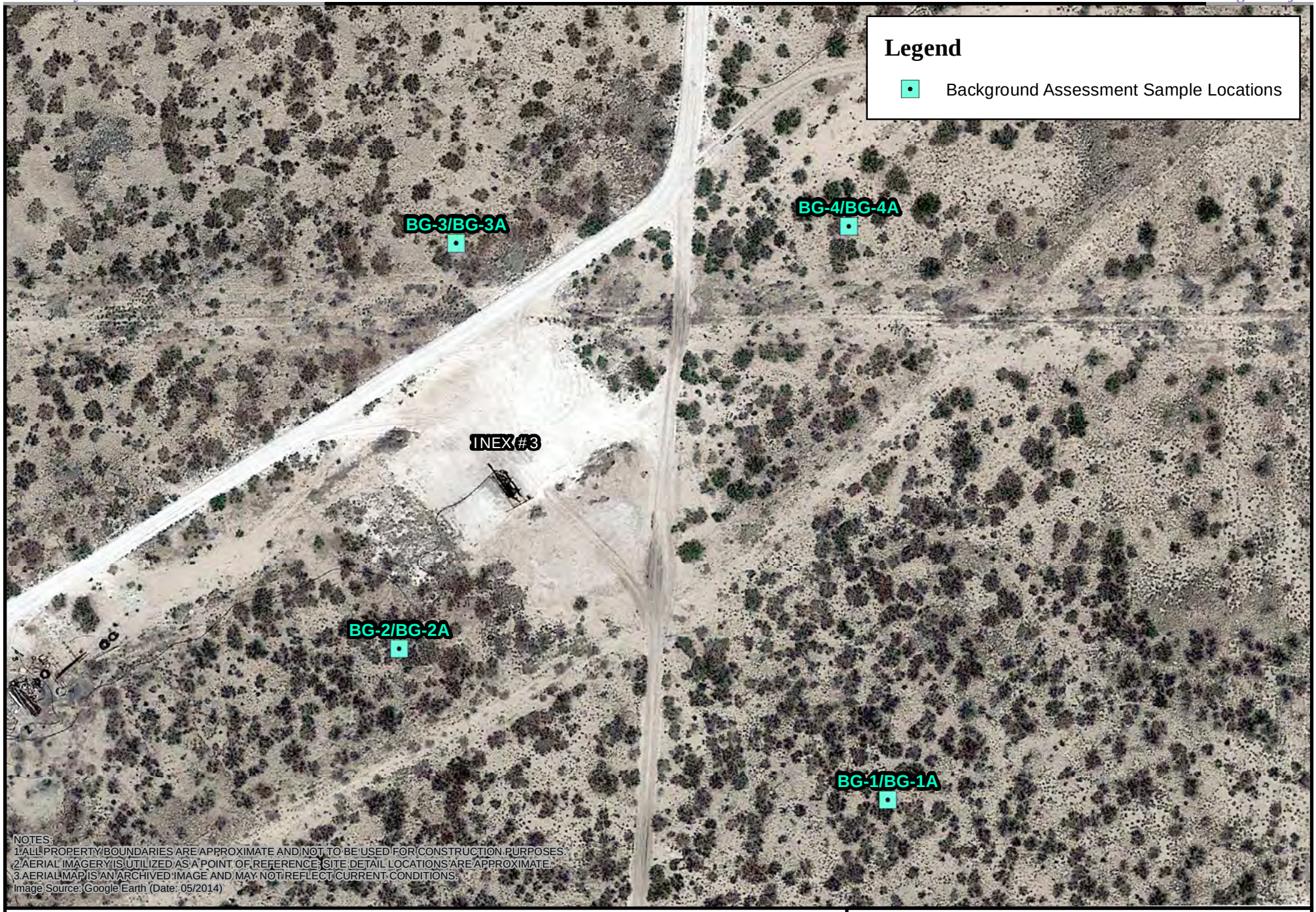

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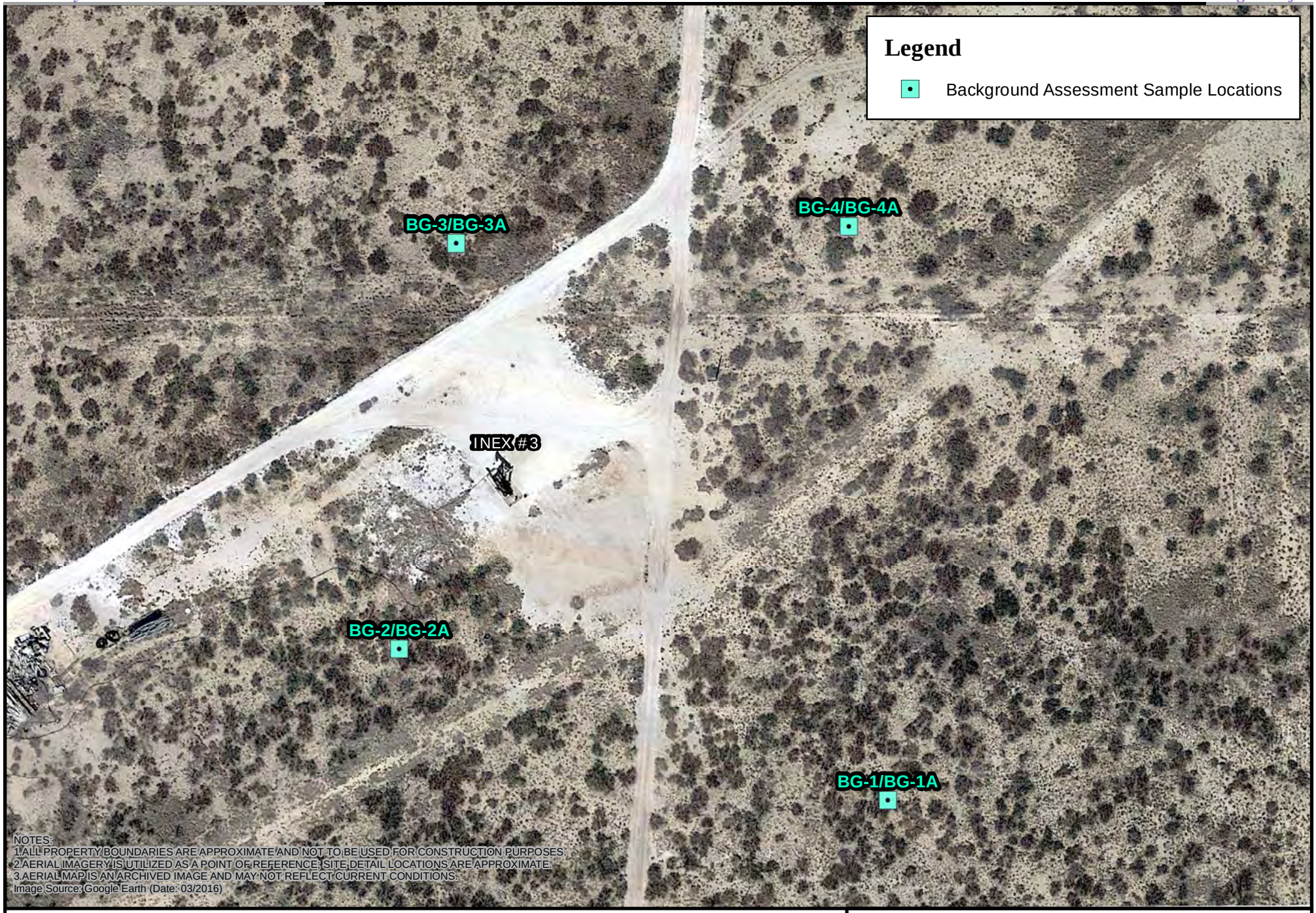

RANGER ENVIRONMENTAL SERVICES, LLC

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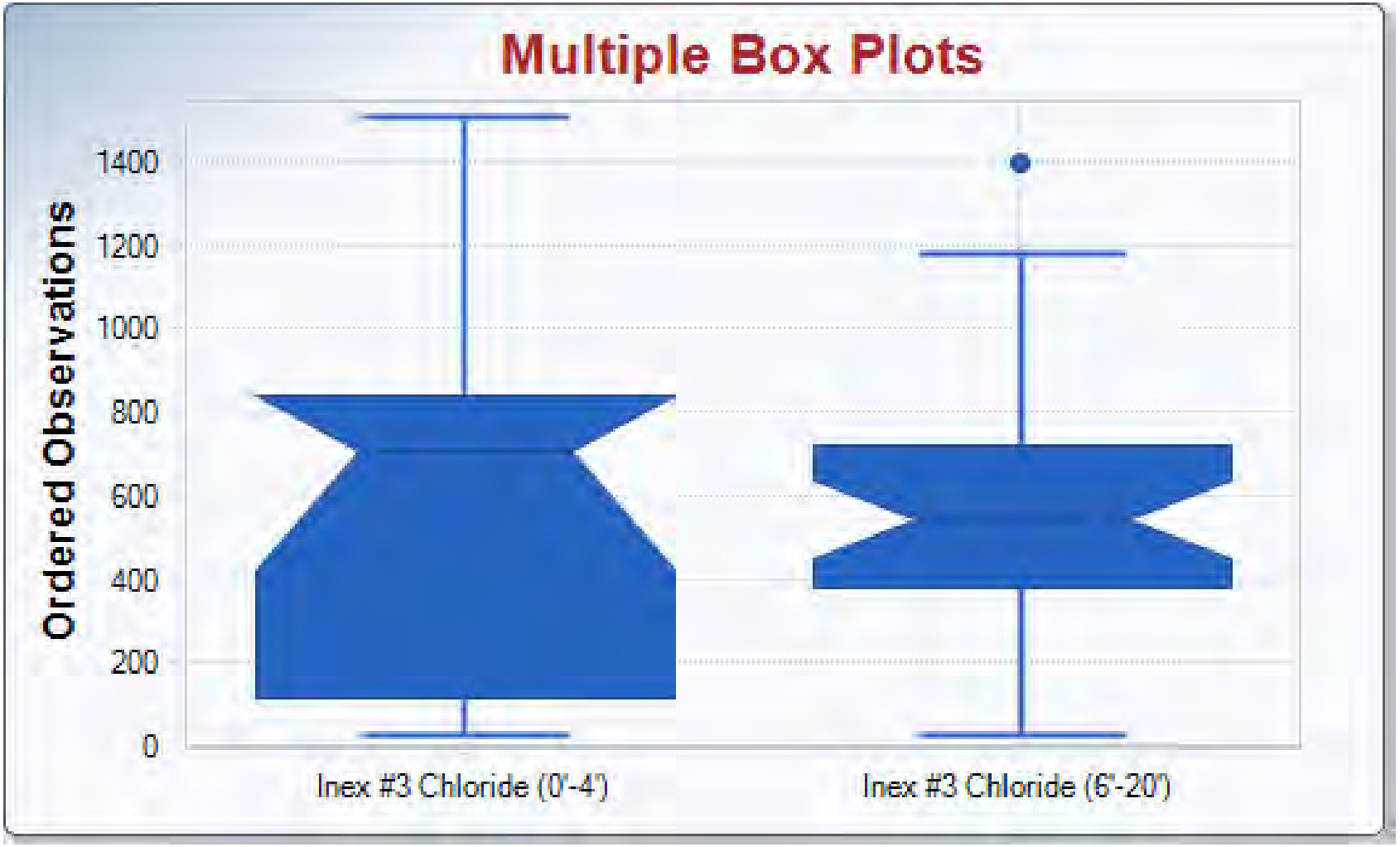
Historic Aerial (2016)
Inex #3
EOG Resources, Inc.

ATTACHMENT 4 – PROUCL SOFTWARE RESULTS


Multiple Box Plots
Ordered Observations
1400
1200
1000
800
600
400
200
0
Inex #3 Chloride (0'-4')
Inex #3 Chloride (6'-20')

1	Background Statistics for Uncensored Full Data Sets										
2	**User Selected Options**										
3	Date/Time of Computation	ProUCL 5.111/10/2023 1:40:29 PM									
4	From File	WorkSheet.xls									
5	Full Precision	OFF									
6	Confidence Coefficient	95%									
7	Coverage	95%									
8	New or Future K Observations	1									
9	Number of Bootstrap Operations	2000									
10											
11	**Inex #3 Chloride (0'-4')**										
12											
13	**General Statistics**										
14	Total Number of Observations	16				Number of Distinct Observations	12				
15	Minimum	32				First Quartile	152				
16	Second Largest	1200				Median	704				
17	Maximum	1500				Third Quartile	828				
18	Mean	618.5				SD	448.7				
19	Coefficient of Variation	0.725				Skewness	0.0825				
20	Mean of logged Data	5.821				SD of logged Data	1.47				
21											
22	**Critical Values for Background Threshold Values (BTVs)**										
23	Tolerance Factor K (For UTL)	2.524				d2max (for USL)	2.443				
24											
25	**Normal GOF Test**										
26	Shapiro Wilk Test Statistic	0.917				**Shapiro Wilk GOF Test**					
27	5% Shapiro Wilk Critical Value	0.887				Data appear Normal at 5% Significance Level					
28	Lilliefors Test Statistic	0.154				**Lilliefors GOF Test**					
29	5% Lilliefors Critical Value	0.213				Data appear Normal at 5% Significance Level					
30	**Data appear Normal at 5% Significance Level**										
31											
32	**Background Statistics Assuming Normal Distribution**										
33	95% UTL with 95% Coverage	1751				90% Percentile (z)	1193				
34	95% UPL (t)	1429				95% Percentile (z)	1356				
35	95% USL	1715				99% Percentile (z)	1662				
36											
37	**Gamma GOF Test**										
38	A-D Test Statistic	1.472				**Anderson-Darling Gamma GOF Test**					
39	5% A-D Critical Value	0.765				Data Not Gamma Distributed at 5% Significance Level					
40	K-S Test Statistic	0.287				**Kolmogorov-Smirnov Gamma GOF Test**					
41	5% K-S Critical Value	0.222				Data Not Gamma Distributed at 5% Significance Level					
42	**Data Not Gamma Distributed at 5% Significance Level**										
43											
44	**Gamma Statistics**										
45	k hat (MLE)	0.957				k star (bias corrected MLE)	0.819				
46	Theta hat (MLE)	646.3				Theta star (bias corrected MLE)	755				
47	nu hat (MLE)	30.62				nu star (bias corrected)	26.22				
48	MLE Mean (bias corrected)	618.5				MLE Sd (bias corrected)	683.3				
49											
50	**Background Statistics Assuming Gamma Distribution**										
51	95% Wilson Hilferty (WH) Approx. Gamma UPL	2172				90% Percentile	1495				
52	95% Hawkins Wixley (HW) Approx. Gamma UPL	2459				95% Percentile	1989				

53				95% HW Approx. Gamma UTL with	95% Coverage	3409				99% Percentile	3154	
54				95% HW Approx. Gamma UTL with	95% Coverage	4173						
55					95% WH USL	3251				95% HW USL	3945	
56												
57					**Lognormal GOF Test**							
58					Shapiro Wilk Test Statistic	0.745	**Shapiro Wilk Lognormal GOF Test**					
59					5% Shapiro Wilk Critical Value	0.887	Data Not Lognormal at 5% Significance Level					
60					Lilliefors Test Statistic	0.322	**Lilliefors Lognormal GOF Test**					
61					5% Lilliefors Critical Value	0.213	Data Not Lognormal at 5% Significance Level					
62					**Data Not Lognormal at 5% Significance Level**							
63												
64					**Background Statistics assuming Lognormal Distribution**							
65				95% UTL with	95% Coverage	13784				90% Percentile (z)	2219	
66					95% UPL (t)	4804				95% Percentile (z)	3785	
67					95% USL	12242				99% Percentile (z)	10308	
68												
69					**Nonparametric Distribution Free Background Statistics**							
70					**Data appear Normal at 5% Significance Level**							
71												
72					**Nonparametric Upper Limits for Background Threshold Values**							
73					Order of Statistic, r	16				95% UTL with	95% Coverage	1500
74					Approx, f used to compute achieved CC	0.842				Approximate Actual Confidence Coefficient achieved by UTL		0.56
75										Approximate Sample Size needed to achieve specified CC		59
76				95% Percentile Bootstrap UTL with	95% Coverage	1500				95% BCA Bootstrap UTL with	95% Coverage	1500
77					95% UPL	1500				90% Percentile		1110
78					90% Chebyshev UPL	2006				95% Percentile		1275
79					95% Chebyshev UPL	2634				99% Percentile		1455
80					95% USL	1500						
81												
82				Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.								
83				Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers								
84				and consists of observations collected from clean unimpacted locations.								
85				The use of USL tends to provide a balance between false positives and false negatives provided the data								
86				represents a background data set and when many onsite observations need to be compared with the BTV.								
87												

1	Background Statistics for Uncensored Full Data Sets										
2	**User Selected Options**										
3	Date/Time of Computation	ProUCL 5.111/8/2023 1:46:57 PM									
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5	Full Precision	OFF									
6	Confidence Coefficient	95%									
7	Coverage	95%									
8	New or Future K Observations	1									
9	Number of Bootstrap Operations	2000									
10											
11	**Inex #3 Chlroide (6'-20')**										
12											
13	**General Statistics**										
14	Total Number of Observations	32				Number of Distinct Observations	23				
15	Minimum	32				First Quartile	380				
16	Second Largest	1170				Median	544				
17	Maximum	1390				Third Quartile	720				
18	Mean	565.1				SD	309.6				
19	Coefficient of Variation	0.548				Skewness	0.501				
20	Mean of logged Data	6.088				SD of logged Data	0.89				
21											
22	**Critical Values for Background Threshold Values (BTVs)**										
23	Tolerance Factor K (For UTL)	2.186				d2max (for USL)	2.773				
24											
25	**Normal GOF Test**										
26	Shapiro Wilk Test Statistic	0.957				**Shapiro Wilk GOF Test**					
27	5% Shapiro Wilk Critical Value	0.93				Data appear Normal at 5% Significance Level					
28	Lilliefors Test Statistic	0.117				**Lilliefors GOF Test**					
29	5% Lilliefors Critical Value	0.154				Data appear Normal at 5% Significance Level					
30	**Data appear Normal at 5% Significance Level**										
31											
32	**Background Statistics Assuming Normal Distribution**										
33	95% UTL with 95% Coverage	1242				90% Percentile (z)	961.8				
34	95% UPL (t)	1098				95% Percentile (z)	1074				
35	95% USL	1424				99% Percentile (z)	1285				
36											
37	**Gamma GOF Test**										
38	A-D Test Statistic	1.433				**Anderson-Darling Gamma GOF Test**					
39	5% A-D Critical Value	0.758				Data Not Gamma Distributed at 5% Significance Level					
40	K-S Test Statistic	0.206				**Kolmogorov-Smirnov Gamma GOF Test**					
41	5% K-S Critical Value	0.157				Data Not Gamma Distributed at 5% Significance Level					
42	**Data Not Gamma Distributed at 5% Significance Level**										
43											
44	**Gamma Statistics**										
45	k hat (MLE)	2.163				k star (bias corrected MLE)	1.981				
46	Theta hat (MLE)	261.3				Theta star (bias corrected MLE)	285.3				
47	nu hat (MLE)	138.4				nu star (bias corrected)	126.8				
48	MLE Mean (bias corrected)	565.1				MLE Sd (bias corrected)	401.5				
49											
50	**Background Statistics Assuming Gamma Distribution**										
51	95% Wilson Hilferty (WH) Approx. Gamma UPL	1370				90% Percentile	1101				
52	95% Hawkins Wixley (HW) Approx. Gamma UPL	1464				95% Percentile	1344				

53				95% HW Approx. Gamma UTL with	95% Coverage	1717				99% Percentile	1888	
54				95% HW Approx. Gamma UTL with	95% Coverage	1888						
55					95% WH USL	2234				95% HW USL	2548	
56												
57					**Lognormal GOF Test**							
58					Shapiro Wilk Test Statistic	0.787	**Shapiro Wilk Lognormal GOF Test**					
59					5% Shapiro Wilk Critical Value	0.93	Data Not Lognormal at 5% Significance Level					
60					Lilliefors Test Statistic	0.264	**Lilliefors Lognormal GOF Test**					
61					5% Lilliefors Critical Value	0.154	Data Not Lognormal at 5% Significance Level					
62					**Data Not Lognormal at 5% Significance Level**							
63												
64					**Background Statistics assuming Lognormal Distribution**							
65				95% UTL with	95% Coverage	3082				90% Percentile (z)	1378	
66					95% UPL (t)	2039				95% Percentile (z)	1904	
67					95% USL	5196				99% Percentile (z)	3491	
68												
69					**Nonparametric Distribution Free Background Statistics**							
70					**Data appear Normal at 5% Significance Level**							
71												
72					**Nonparametric Upper Limits for Background Threshold Values**							
73					Order of Statistic, r	32				95% UTL with	95% Coverage	1390
74					Approx, f used to compute achieved CC	1.684				Approximate Actual Confidence Coefficient achieved by UTL		0.806
75										Approximate Sample Size needed to achieve specified CC		59
76				95% Percentile Bootstrap UTL with	95% Coverage	1390				95% BCA Bootstrap UTL with	95% Coverage	1390
77					95% UPL	1247				90% Percentile		891.2
78					90% Chebyshev UPL	1508				95% Percentile		1126
79					95% Chebyshev UPL	1935				99% Percentile		1322
80					95% USL	1390						
81												
82					Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.							
83					Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers							
84					and consists of observations collected from clean unimpacted locations.							
85					The use of USL tends to provide a balance between false positives and false negatives provided the data							
86					represents a background data set and when many onsite observations need to be compared with the BTV.							
87												

ATTACHMENT 5 – PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPH NO. 1 – A general view of the Site during background soil investigation on November 6, 2023.

PHOTOGRAPH NO. 2 – A photograph documenting one of the excavations to 20 feet below ground surface.

PHOTOGRAPH NO. 3 – A view of the personnel collecting a soil sample during the November 6, 2023 assessment.

PHOTOGRAPH NO. 4 – A view of personnel installing a soil boring using a decontaminated hand auger to four feet bgs on November 9, 2023.

RANGER
ENVIRONMENTAL SERVICES, LLC

SITE ASSESSMENT AND REMEDIATION PLAN UPDATE

INEX #3
#NAPP2110635348
UNIT A, SECTION 26, TOWNSHIP 18S, RANGE 26E
EDDY COUNTY, NEW MEXICO
32.724228, -104.346278
RANGER REFERENCE NO. 5375

PREPARED FOR:

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

PREPARED BY:

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

NOVEMBER 17, 2022

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

William Kierdorf, REM
Project Manager

TABLE OF CONTENTS

FORM C-141

FIGURES

- Topographic Map
- Area Map
- Additional Vertical Delineation Assessment Location Map

TABLES

- Site Assessment Soil Sample BTEX, TPH & Chloride Analytical Data

ATTACHMENTS

- Attachment 1 – Photographic Documentation
- Attachment 2 – Laboratory Analytical Report
- Attachment 3 – NMOCD Correspondence
- Attachment 4 – Soil Boring Logs

RANGER
ENVIRONMENTAL SERVICES, LLC

SITE ASSESSMENT AND REMEDIATION PLAN UPDATE
INEX #3
#NAPP2110635348
UNIT A, SECTION 26, TOWNSHIP 18S, RANGE 26E
EDDY COUNTY, NEW MEXICO
32.724228, -104.346278
RANGER REFERENCE NO. 5375

1.0 SITE LOCATION AND BACKGROUND

The Inex #3 well pad (Site) is located approximately 8.7 miles southeast of Artesia within Eddy County, New Mexico. The facility is situated in Unit A, Section 26, T18S-R26E at GPS coordinates 32.724228, -104.346278. During plugging and abandonment of the well at the Site, an area of concern related to an apparent unknown historic produced water spill was discovered in the vicinity of the well head location. To address the impacted soils, an area measuring approximately 85 feet by 60 feet was reportedly excavated to a depth of approximately three feet below ground surface (bgs) and then backfilled.

EOG Resources, Inc. (EOG) subsequently engaged Ranger Environmental Services, LLC (Ranger) to assist in the assessment and remediation of the site conditions. A "*Proposed Site Assessment Plan*" was developed, submitted, and received preliminary approval by the NMOCD on June 9, 2021. Following the completion of these proposed assessment activities, further assessment was deemed necessary, and a "*Project Update and Proposed Additional Assessment*" plan (dated July 14, 2021) was prepared to further assess the impacts at the Site.

On July 21 and 22, 2021, the additional assessment activities proposed in the July 14, 2021 plan were conducted at the site. The results of the July 2021 assessment activities were presented in the "*Site Assessment Update and Work Plan*" report (dated September 13, 2021). This report also contained a work plan for proposed additional horizontal and vertical delineation activities. The proposed activities were approved by the NMOCD on December 16, 2021. The NMOCD approval contained several conditions of approval, including the altering of the proposed background soil boring location. The approved work plan activities were subsequently completed in January-February 2022. The results of the January-February 2022 assessment activities were presented in the March 9, 2022 "*Site Assessment Update*" report.

In April 2022, a "*Proposed Remediation Plan*", dated April 26, 2022, (*Remediation Plan*) was prepared and submitted to the NMOCD. The *Remediation Plan* summarized the completed assessment efforts and detailed a proposed remedial strategy to address the conditions documented at the Site. Due to the extensive soil impacts at the Site, the proposed plan requested a variance to NMAC 19.15.29.12 to allow for limited soil removal operations and the installation of a 20 mil synthetic liner. On June 13, 2022, the NMOCD denied the remediation plan for reasons primarily concerning depth-to-groundwater in the area and requested the performance of additional vertical delineation activities to document the vertical extent of the site soil impacts.

In June and July 2022, Ranger personnel and representatives of EOG conducted additional vertical soil delineation activities at the Site. The results of these activities were summarized in Ranger's August 26, 2022 "*Site Update and Additional Assessment Plan*." As summarized in the report, further vertical delineation activities were determined to be necessary in order to delineate the site soil chloride concentrations to the 600 mg/Kg target concentration. As such, the report included a work plan for the installation of four additional test excavations and two additional soil borings at the Site. These proposed activities were completed at the site during September-October, 2022.

This report has been prepared to update the NMOCD with the findings of the September-October, 2022 vertical delineation activities. In addition, this report also respectfully requests NMOCD reconsideration of the usage of limited soil removal operations and the installation of a 20 mil synthetic liner for the remediation of the subject site since the vertical extent of the soil impacts at the site have now been delineated to 600 mg/Kg chloride prior to reaching groundwater.

A "*Topographic Map*" and "*Area Map*" are attached which illustrate the location of the subject site and surrounding areas. The attached "*Additional Vertical Delineation Assessment Location Map*" depicts the locations of the recent vertical delineation locations as well as the prior site sampling locations.

2.0 VERTICAL DELINEATION UPDATE

2.1 Vertical Delineation Soil Borings

Ranger's August 26, 2022 "*Site Update and Additional Assessment Plan*" included provisions to install two vertical delineation soil borings in the immediate vicinity of the "E-1.A(A)", "SE-2A(A)", and "SE-2-B(A)" test excavations which were completed during the June 30 and July 1, 2022 assessment activities. As detailed in the "*Site Update and Additional Assessment Plan",* dated August 26, 2022, the proposed soil borings were to be completed as groundwater monitoring wells if the vertical extent of the soil chloride impacts was not delineated prior to reaching groundwater.

On September 28, 2022, Ranger personnel and representatives for HCI Drilling arrived on-site to install the proposed soil borings ("SB-3/TW-1" and "SB-4/TW-2"). The attached "*Additional Vertical Delineation Assessment Location Map*" depicts the locations of the two soil borings. The drilling and sampling was conducted using an air rotary rig with a split spoon sampler.

Soil samples were continuously collected and monitored during the drilling process via soil cuttings and split spoon sampler. The generated soils were inspected and described by the on-site Ranger field geologist. Soil samples were collected via split spoon at approximate five-foot intervals and from the terminal depth of each boring for field screening and laboratory sampling purposes. The soils were screened utilizing an OVM and field chloride titration kit. The field readings were utilized to determine the appropriate depth of investigation, as well as to assist in the selection of soil samples for laboratory analysis.

During the drilling of soil boring "SB-3/TW-1", elevated field chloride readings were encountered from the surface to a depth of approximately 25 feet bgs where a field chloride reading of 600 mg/Kg was obtained. No elevated field chloride readings (in excess of 600 ppm) were encountered between 25 feet bgs and the terminal depth of the soil boring (32 feet bgs). In

addition, no significantly elevated field OVM readings were encountered during the "SB-3/TW-1" soil boring installation process.

While drilling soil boring "SB-4/TW-2" on September 28, 2022, elevated field chloride readings were encountered from the surface to a depth of approximately 32 feet bgs where the field readings indicated that the 600 mg/Kg delineation goal had nearly been attained. The drilling was halted, however, since a damp interval was noted in the soil boring just above an underlying caliche layer present at 32 feet. Due to the possibility that a perched water-bearing zone had been encountered overlying the caliche bed, the soil boring was converted to a temporary monitoring well, as was soil boring "SB-03/TW-1", to confirm whether or not groundwater had been encountered. The temporary monitor wells were constructed using 2"-diameter Schedule 40 PVC with 20 feet of screen and riser pipe, and were allowed to equilibrate for one week. The wells were gauged with an electronic interface probe on September 30, 2022, October 3, 2022 and October 5, 2022 and were found to be dry thus confirming the absence of a perched water-bearing zone.

On October 5, 2022, after confirming the absence of shallow groundwater in the temporary monitoring wells, soil boring "SB-4" was re-entered after removing the temporary well casing in order to complete the vertical delineation of the soil chloride impacts. Upon reaching a depth of 33 feet bgs, the field chloride readings indicated that the 600 mg/Kg delineation goal had been achieved. As such, both soil borings/temporary wells were properly plugged and abandoned by HCI Drilling.

In order to confirm the field screening results and the attainment of the 600 mg/Kg vertical delineation goal, soil samples were collected from both soil borings for laboratory analysis. At the soil boring "SB-3/TW-1" location, samples for laboratory analysis were collected at depths of approximately 15 feet, 30 feet, and 32 feet bgs. At the soil boring "SB-4/TW-2" location, samples for laboratory analysis were collected at depths of approximately 20 feet, 30 feet, 32 feet, and 33 feet bgs.

Ranger personnel wore new latex or nitrile gloves while handling each soil sample in order to prevent cross-contamination of samples. The soil samples were containerized in sterile, laboratory-supplied containers, and were subsequently sealed in one or more zip lock bags and stored in a sample shuttle containing ice until arrival at the laboratory for chemical analysis. All sample containers were labeled with the project name, sample identification, date of sample collection, samplers' initials, and the time the sample was collected. The samples were managed using standard QA/QC and chain-of-custody procedures.

Upon collection, the soil samples were submitted to Hall Environmental Laboratory in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and, total chloride using EPA Method 300. The analytical results for the soil testing are summarized in the attached analytical data table. Copies of the signed analytical reports, quality control documentation and chain-of-custody documentation for the soil samples are also attached.

The soil analytical results confirmed that the vertical extent of the soil chloride impacts in the two soil borings had been delineated to 600 mg/Kg prior to reaching groundwater. Both the 30'-deep and 32'-deep samples collected from soil boring "SB-3/TW-1" were found to contain chloride concentrations below 600 mg/Kg. In soil boring "SB-4/TW-2", the 32'-deep soil sample was found to contain 670 mg/Kg chloride, which was just above the 600 mg/Kg delineation goal. However,

the sample collected from "SB-4/TW-2" at a depth of 33' bgs was found to contain 400 mg/Kg chloride which was well below the 600 mg/Kg delineation goal.

In summary, the soil boring investigation activities documented that the 600 mg/Kg vertical delineation goal had been achieved at depths of approximately 30'-33' bgs prior to encountering any groundwater.

All soil cuttings generated during the soil boring installation process were containerized in sealed and labeled 55-gallon metal drums and were stored on-site pending disposal in conjunction with the planned site remediation activities. Copies of the soil boring logs and photographic documentation for the installed soil borings are attached.

2.2 Additional Test Excavations

Ranger's August 26, 2022 "*Site Update and Additional Assessment Plan*" also included provisions to install and sample four additional test excavations to complete the vertical delineation of the soil chloride impacts in the area of prior test excavations "NE-3.B(A)", "E-1.D(A)", "ESE-1(A)", and "ESE-2.A." These test excavations had been documented to contain relatively minor exceedances of the 600 mg/Kg chloride target concentration at their terminal depths which ranged from 6'-12' bgs. The vertical delineation activities at these locations thus appeared to be achievable with earth moving equipment.

On October 24, 2022, Ranger personnel and representatives for EOG installed and sampled the four additional vertical delineation test trenches. The sampling locations are illustrated on the attached "*Additional Vertical Delineation Assessment Location Map*."

During the installation of the vertical delineation test excavations, Ranger personnel screened the soils with an organic vapor monitor (OVM) and a field chloride titration kit at one-foot intervals beginning at the depth at which the prior test excavations "NE-3.B(A)", "E-1.D(A)", "ESE-1(A)", and "ESE-2.A" had been halted. As summarized above, the terminal depth samples collected from these prior test excavations had documented that the vertical extent of the chloride impacts at those locations had not been delineated to 600 mg/Kg.

The October 24, 2022 vertical delineation test excavations were subsequently completed to depths (approximately 10'-14' bgs) where the field readings indicated that soil chloride concentrations were below 600 mg/Kg. Upon completion of the field screening process at each test excavation location, a minimum of two discrete grab soil samples were collected from each test excavation for laboratory analysis, including one from the terminal depth of each test excavation.

Ranger personnel wore new latex or nitrile gloves while handling each soil sample in order to prevent cross-contamination of samples. The soil samples were containerized in sterile, laboratory-supplied containers, and were subsequently sealed in one or more zip lock bags and stored in a sample shuttle containing ice until arrival at the laboratory for chemical analysis. All sample containers were labeled with the project name, sample identification, date of sample collection, samplers' initials, and the time the sample was collected.

Upon collection, the soil samples were submitted to Hall Environmental Laboratory in Albuquerque, New Mexico for analysis of TPH, BTEX and chlorides using Methods 8015, 8021 and 300, respectively. The samples were managed using standard QA/QC and chain-of-custody procedures. The analytical results for the soil testing are summarized in the attached analytical

data table. Copies of the signed analytical report, quality control documentation and chain-of-custody documentation for the soil samples are also attached.

The results of the soil testing documented that the 600 mg/Kg vertical delineation goal had been achieved at depths ranging from approximately 8'-14' bgs in test excavations "ESE-1(B)", "E-1-D(B)" and "ESE-2-A(A)". The vertical extent of the chloride impacts in test excavation "NE-3-B(B)" was not delineated to 600 mg/Kg chloride. The 13' bgs termination depth sample collected from this test excavation was documented to contain 760 mg/Kg chloride. It should be noted that the field chloride readings in this test excavation indicated that the 600 mg/Kg vertical delineation goal had been achieved at a depth of 11' bgs. As such, Ranger suspects that slough from the upper portions of this test excavation may have inadvertently been incorporated into the terminal depth soil sample.

Rather than proposing additional vertical delineation activities to delineate the vertical extent of the chloride impact in test excavation "NE-3-B(B)", Ranger believes that the cumulative site data is sufficient to reasonably assume that the relatively minor exceedance of the 600 mg/Kg chloride delineation goal in test excavation NE-3-B(B) at a depth of 13' bgs does not pose any threat to the underlying groundwater. Other site locations with much higher chloride concentrations than that documented to be present in test excavation "NE-3-B(B)" have now been vertically delineated to below 600 mg/Kg prior to encountering any groundwater. If for any reason, however, the NMOCD feels differently, then per NMOCD request the vertical extent of impact at this location will be delineated in conjunction with the proposed site remediation activities.

3.0 REMEDIATION PLAN

In April 2022, a "*Proposed Remediation Plan*" report (dated April 26, 2022) was prepared and submitted to the NMOCD. The plan detailed a proposed remedial strategy to address the conditions documented at the Site. Due to the extensive soil impacts at the Site, the proposed plan requested a variance to NMAC 19.15.29.12 to allow for limited soil removal operations and the installation of a 20 mil synthetic liner. On June 13, 2022, the NMOCD denied the remediation plan for reasons primarily concerning depth-to-groundwater in the area and requested the performance of additional vertical delineation activities to document the vertical extent of the site soil impacts.

Since the site soil impacts have now been vertically delineated and shown to decrease to below 600 mg/Kg prior to reaching groundwater, Ranger respectfully requests NMOCD reconsideration of the April 2022 "*Proposed Remediation Plan*" and approval of the usage of limited soil removal operations and the installation of a 20 mil synthetic liner for the remediation of the subject site.

FORM C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2110635348
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.72415 Longitude -104.34635
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Inex #3	Site Type Oil Well
Date Release Discovered 09/17/2019	API# *(if applicable)* 30-015-25916

Unit Letter	Section	Township	Range	County
A	26	18S	26E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☑ Private (*Name:* EOG Resources, Inc.)

Nature and Volume of Release

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

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

Cause of Release Historical impacts discovered during the P&A of the well. Release volume and date are unknown.

State of New Mexico
Oil Conservation Division

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

Initial Response

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

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Chase Settle
Title: Rep Safety & Environmental Sr
Signature: Chase Settle
Date: 04/16/2021
email: Chase_Settle@eogresources.com
Telephone: 575-748-1471

OCD Only

Received by: Ramona Marcus
Date: 5/7/2021

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 24325

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
EOG RESOURCES INC P.O. Box 2267 Midland, TX79702	7377	24325	C-141

OCD Reviewer	Condition
rmarcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2110635348
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Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<50’ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2110635348
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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

Signature: Chase Settle Date: 11/17/2022

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

OCD Only

Received by: Jocelyn Harimon Date: 01/06/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2110635348
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

Variance requested per 19.15.29.14 NMAC to allow use of a liner as part of the Remediation Plan

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

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

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

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

Signature: Chase Settle Date: 11/17/2022

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

OCD Only

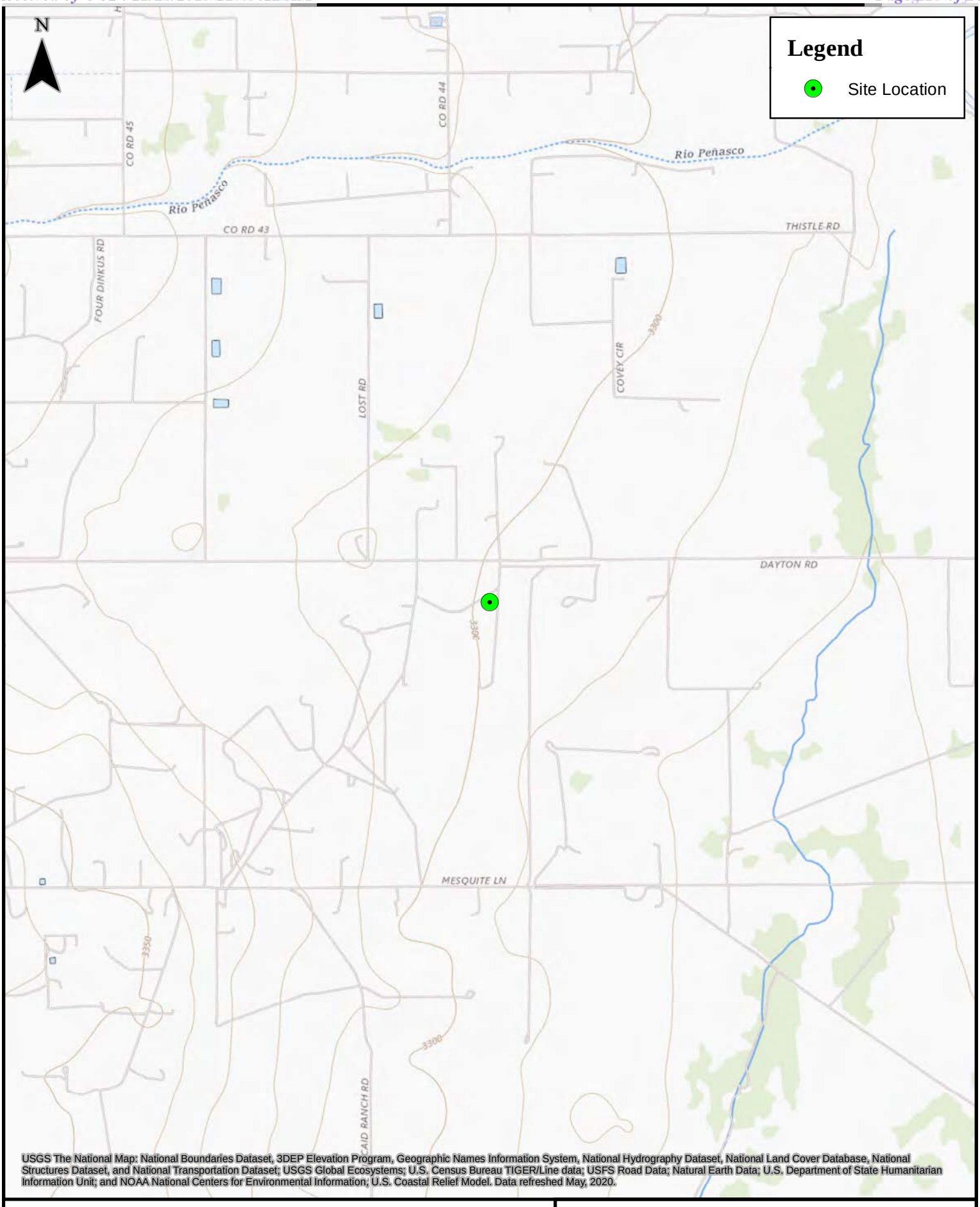
Received by: Jocelyn Harimon Date: 01/06/2023

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: _____ Date: _____

FIGURES

Topographic Map
Area Map
Additional Vertical Delineation Assessment Location Map

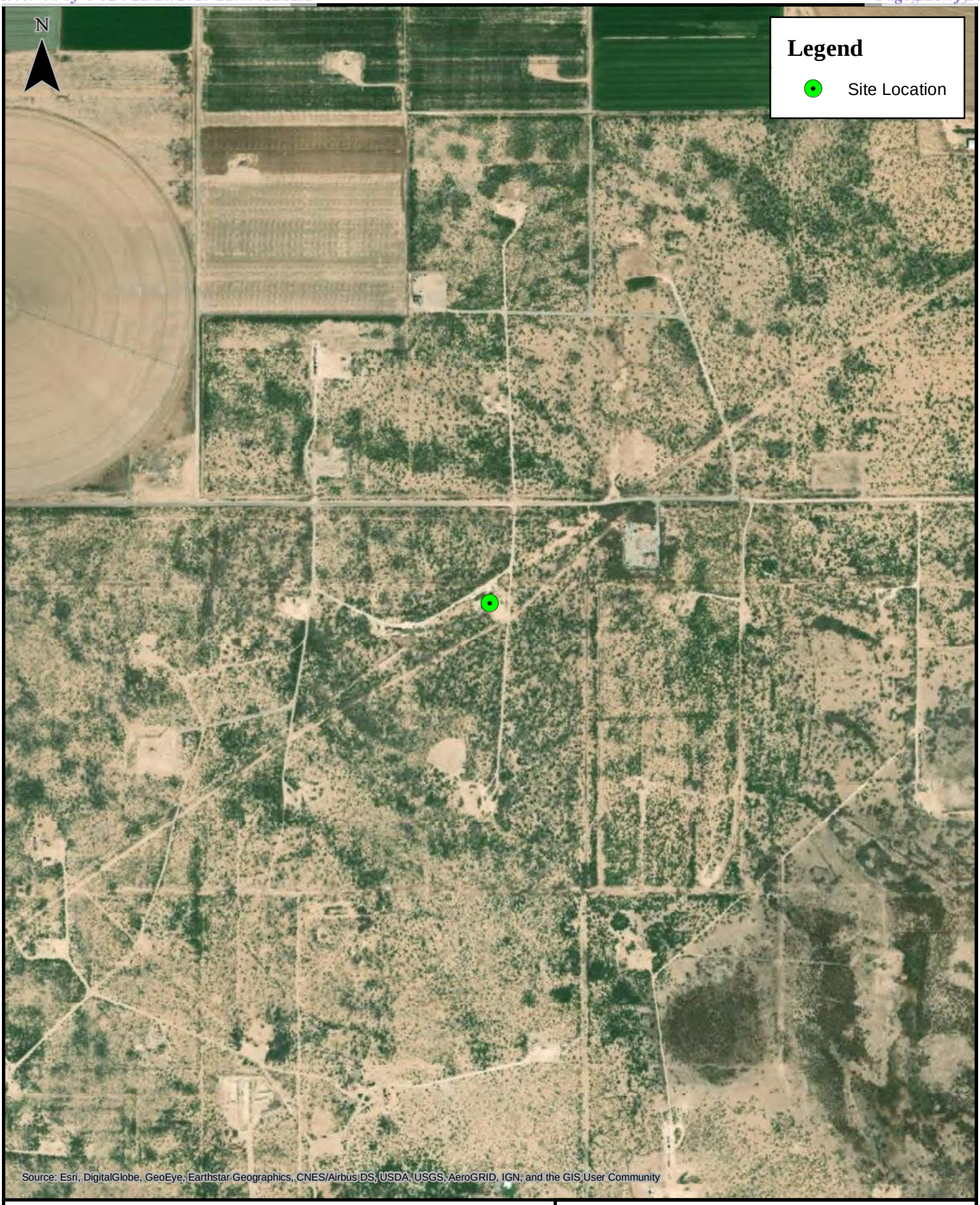


RANGER ENVIRONMENTAL SERVICES, INC.

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

1:24,000

Topographic Map
Inex #3
EOG Resources, Inc.



RANGER ENVIRONMENTAL SERVICES, INC.

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

1:10,000

Area Map
Inex #3
EOG Resources, Inc.

Legend

- Previously Excavated Area
- Vertical Assessment Location (06/30-07/01/2022)
- Soil Boring Location (2/2022)

Additional Vertical Assessment Location

- Soil Boring
- Test Excavation

06/16-17/2021 - Grab Sample Locations

- Grab Sample Location (<600 mg/Kg Cl)
- Grab Sample Location (>600 kg/Kg Cl)
- Composite Sample Location (>600 mg/Kg)

Sample Locations

- Horizontal Delineation Sample Location (>600 mg/Kg Cl)
- Horizontal Delineation Sample (<600 mg/Kg Cl)
- Vertical Delineation Sample Location (>600 mg/Kg Cl)
- Vertical Delineation Sample Location (<600 mg/Kg Cl)

Approximate Boundary of Soil Exceeding 600 mg/Kg

- Approximate Boundary of Soil >600 mg/Kg Cl*

NNE-2.B, N-1.E.B, N-1.NE, N-1.E.A(A), N-1.E.A, N-1.N, N-1.E, N-1.1, NE-1.A, NNE-1.A, NNE-2.A, NNE-2, NNE-2(A), NNE-1, NE-2.A, NE-3.B(A), NE-3-B(B), NE-3.B, NE-3.A, NE-3.D, NE-3.F, NE-3.G, NE-3.E(A), NE-3.E, SB-2, C-2.1, SB-1, F-4.1, SW-1.A, E-2.1, E-1.1, E-1.A(A), E-1.A, SE-2.1, SB-4, E-1.B, SE-2A(A), SE-2.A, SB-3, SW-3.A, SE-1.A, SE-2-B(A), SE-2.B, SSW-2, SE-1.B, SSW-1, SE-2.C, SE-1.C, SSE-1, SSE-2, SSE-1.A, E-1.C(A), E-1.C, ESE-1, ESE-1(A), ESE-1(B), E-1.D(A), E-1-D(B), E-1.D, E-1.E, ESE-1-N.2, ESE-1-N.1, ESE-1-N, ESE-1.N.1(A), ESE-1-S, ESE-1-S.1, ESE-2, ESE-2.C, ESE-2.A, ESE-2.A(A), ESE-2-A(A), ESE-2.B

NOTES:
1.ALL PROPERTY BOUNDARIES ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION PURPOSES.
2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAIL LOCATIONS ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Google Earth (Image Date 12/2019)

RANGER ENVIRONMENTAL SERVICES, INC.

0 15 30 60 90 120 Feet

1:525

N

Additional Vertical Delineation Assessment Location Map
Inex #3
EOG Resources, Inc.

TABLES

Site Assessment Soil Sample BTEX, TPH
& Chloride Analytical Data

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

All values presented in parts per million (mg/Kg)

SAMPLE ID	DATE	DEPTH (FT)	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C6-C10	TPH DRO C10-C28	TPH MRO C28-C36	TPH (GRO+DRO)	TPH (GRO+DRO+ MRO)	CHLORIDE
Initial Site Assessment Grid Sample Locations (Composite) : July 16 & 17, 2021													
A-1/0'	6/17/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.5	<47	<14.5	<61.5	450
A-1/1'	6/17/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.3	<46	<14.2	<60.2	190
A-1/2'	6/17/2021	2'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.6	<48	<14.4	<62.4	120
A-1/3'	6/17/2021	3'	<0.023	<0.047	<0.047	<0.093	<0.21	<4.7	<9.9	<50	<14.6	<64.6	<60
A-1/4'	6/17/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.6	<48	<14.4	<62.4	<61
A-2/0'	6/17/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.2	<46	<14.2	<60.2	780
A-2/1'	6/17/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.5	<47	<14.4	<61.4	410
A-2/2'	6/17/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.6	<48	<14.4	<62.4	380
A-2/3'	6/17/2021	3'	<0.023	<0.047	<0.047	<0.093	<0.21	<4.7	<9.8	<49	<14.5	<63.5	310
A-2/4'	6/17/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.7	<49	<14.6	<63.6	71
A-3/0'	6/17/2021	0'	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.8	<49	<14.5	<63.5	340
A-3/1'	6/17/2021	1'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.4	<47	<14.2	<61.2	430
A-3/2'	6/17/2021	2'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.9	<50	<14.8	<64.8	230
A-3/3'	6/17/2021	3'	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<10	<50	<14.6	<64.6	74
A-3/4'	6/17/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.222	<4.9	<9.8	<49	<14.7	<63.7	<60
A-4/0'	6/17/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.3	<46	<14.2	<60.2	420
A-4/1'	6/17/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9	<45	<13.9	<58.9	700
A-4/2'	6/17/2021	2'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.4	<47	<14.3	<61.3	260
A-4/3'	6/17/2021	3'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.5	<47	<14.3	<61.3	<59
A-4/4'	6/17/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.9	<50	<14.7	<64.7	<59
B-1/0'	6/17/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.7	<49	<14.7	<63.7	460
B-1/1'	6/17/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.222	<4.9	<9.6	<48	<14.5	<62.5	260
B-1/2'	6/17/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.4	<47	<14.4	<61.4	69
B-1/3'	6/17/2021	3'	<0.025	<0.049	<0.049	<0.098	<0.222	<4.9	<9.6	<48	<14.5	<62.5	<60
B-1/4'	6/17/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.4	<47	<14.4	<61.4	<60
B-2/0'	6/17/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.4	<47	<14.4	<61.4	240
B-2/1'	6/17/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.7	<49	<14.6	<63.6	370
B-2/2'	6/17/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	62	110	62	172	610

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
B-2/3'	6/17/2021	3'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.6	<48	<14.5	<62.5	71
B-2/4'	6/17/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.7	<49	<14.7	<63.7	<60
B-3/0'	6/17/2021	0'	<0.025	<0.05	<0.05	<0.099	<0.224	<5.0	<9.7	<49	<14.7	<63.7	1,800
B-3/1'	6/17/2021	1'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.7	<49	<14.6	<63.6	1,700
B-3/2'	6/17/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.5	<47	<14.5	<61.5	2,200
B-3/3'	6/17/2021	3'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.5	<48	<14.5	<62.5	2,400
B-3/4'	6/17/2021	4'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.6	<48	<14.5	<62.5	2,600
B-4/0'	6/17/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.3	<46	<14.3	<60.3	140
B-4/1'	6/17/2021	1'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.5	<48	<14.4	<62.4	640
B-4/2'	6/17/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.222	<4.9	<9.7	<48	<14.6	<62.6	660
B-4/3'	6/17/2021	3'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.7	<49	<14.6	<63.6	770
B-4/4'	6/17/2021	4'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.4	<47	<14.3	<61.3	1,300
C-1/0'	6/17/2021	0'	<0.025	<0.049	<0.049	<0.098	<0.222	<4.9	<9.7	<48	<14.6	<62.6	110
C-1/1'	6/17/2021	1'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.8	<49	<14.7	<63.7	1,300
C-1/2'	6/17/2021	2'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.7	<48	<14.6	<62.6	2,300
C-1/3'	6/17/2021	3'	<0.025	<0.049	<0.049	<0.098	<0.222	<4.9	<10	<50	<14.9	<64.9	1,500
C-1/4'	6/17/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.222	<4.9	<10	<50	<14.9	<64.9	1,200
C-2/0'	6/17/2021	0'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.7	<48	<14.6	<62.6	140
C-2/1'	6/17/2021	1'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	100	130	100	230	1,300
C-2/2'	6/17/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.222	<4.9	54	120	54	174	660
C-2/3'	6/17/2021	3'	<0.025	<0.050	<0.050	<0.099	<0.224	<5	56	120	56	176	1,000
C-2/4'	6/17/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.222	<4.9	130	230	130	360	1,400
C-3/0'	6/17/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.225	<50	54	230	54	284	850
C-3/1'	6/17/2021	1'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.6	<48	<14.4	<62.4	1,000
C-3/2'	6/17/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.8	<49	<14.8	<63.8	1,600
C-3/3'	6/17/2021	3'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.5	<47	<14.5	<61.5	2,000
C-3/4'	6/17/2021	4'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9	<45	<13.9	<58.9	2,200
C-4/0'	6/17/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.8	<49	<14.8	<63.8	130

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
C-4/1'	6/17/2021	1'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.8	<49	<14.8	<63.8	740
C-4/2'	6/17/2021	2'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.4	<47	<14.3	<61.3	810
C-4/3'	6/17/2021	3'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.8	<49	<14.7	<63.7	460
C-4/4'	6/17/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.9	<49	<14.7	<63.7	420
D-1/0'	6/16/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.5	<47	<14.5	<61.5	770
D-1/1'	6/16/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.3	<47	<14.2	<61.2	1,400
D-1/2'	6/16/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.8	<49	<14.7	<63.7	1,100
D-1/3'	6/16/2021	3'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.9	<50	<14.9	<64.9	1,100
D-1/4'	6/16/2021	4'	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.0	<45	<13.9	<58.9	820
D-2/0'	6/16/2021	0'	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.8	<49	<14.7	<63.7	550
D-2/1'	6/16/2021	1'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.7	<48	<13.7	<62.7	350
D-2/2'	6/16/2021	2'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.7	<48	<14.6	<62.6	200
D-2/3'	6/16/2021	3'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.5	<47	<14.4	<61.4	<60
D-2/4'	6/16/2021	4'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.3	<47	<14.2	<61.2	<60
D-3/0'	6/16/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.3	<47	<14.3	<61.3	710
D-3/1'	6/16/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<10	<50	<14.9	<64.9	790
D-3/2'	6/16/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.6	<48	<14.6	<62.6	810
D-3/3'	6/16/2021	3'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.3	<46	<13.3	<60.3	900
D-3/4'	6/16/2021	4'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.7	<48	<13.7	<62.7	850
D-4/0'	6/16/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<8.8	<44	<13.7	<57.7	74
D-4/1'	6/16/2021	1'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.5	<48	<14.5	<62.5	1,000
D-4/2'	6/16/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.3	<46	<14.2	<60.2	1,400
D-4/3'	6/16/2021	3'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.7	<49	<14.7	<63.7	1,600
D-4/4'	6/16/2021	4'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.7	<49	<14.6	<63.6	1,500
E-1/0'	6/16/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.7	<49	<14.7	<63.7	170
E-1/1'	6/16/2021	1'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.3	<47	<14.3	<61.3	2,200
E-1/2'	6/16/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.6	<48	<14.5	<62.5	76
E-1/3'	6/16/2021	3'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<8.9	<44	<13.8	<57.8	140
E-1/4'	6/16/2021	4'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.7	<48	<14.6	<62.6	180

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
E-2/0'	6/16/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<8.8	<44	<13.7	<57.7	580
E-2/1'	6/16/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<10	<50	<14.9	<64.9	3,900
E-2/2'	6/16/2021	2'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.1	<46	<13.9	<59.9	4,500
E-2/3'	6/16/2021	3'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.3	<47	<14.2	<61.2	5,000
E-2/4'	6/16/2021	4'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.7	<49	<14.7	<63.7	5,100
E-3/0'	6/16/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.4	<47	<14.3	<61.3	300
E-3/1'	6/16/2021	1'	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.9	<49	<14.8	<63.8	3,100
E-3/2'	6/16/2021	2'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.5	<47	<14.4	<61.4	4,400
E-3/3'	6/16/2021	3'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.6	<48	<14.4	<62.4	4,900
E-3/4'	6/16/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.6	<48	<14.5	<62.5	4,700
E-4/0'	6/16/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.225	<5	<9.5	<48	<14.5	<62.5	270
E-4/1'	6/16/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.5	<47	<14.4	<61.4	2,900
E-4/2'	6/16/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.7	<48	<14.7	<62.7	3,600
E-4/3'	6/16/2021	3'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<8.5	<43	<13.4	<56.4	3,200
E-4/4'	6/16/2021	4'	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.4	<47	<14.3	<61.3	4,200
F-1/0'	6/16/2021	0'	<0.023	<0.046	<0.046	<0.091	<0.203	<4.6	<9.6	<48	<14.2	<62.2	150
F-1/1'	6/16/2021	1'	<0.023	<0.046	<0.046	<0.091	<0.203	<4.6	<9.8	<49	<14.4	<63.4	1,100
F-1/2'	6/16/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<8.9	<45	<13.7	<58.7	3,500
F-1/3'	6/16/2021	3'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.3	<47	<14.1	<61.1	2,900
F-1/4'	6/16/2021	4'	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.5	<48	<14.2	<62.2	4,200
F-2/0'	6/16/2021	0'	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.6	<48	<14.3	<62.3	120
F-2/1'	6/16/2021	1'	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<9.5	<47	<14.1	<61.1	1,500
F-2/2'	6/16/2021	2'	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.2	<46	<13.8	<59.8	1,100
F-2/3'	6/16/2021	3'	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.0	<45	<13.7	<58.7	3,100
F-2/4'	6/16/2021	4'	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<8.7	<43	<13.5	<56.5	2,500
F-3/0'	6/16/2021	0'	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.8	<49	<14.5	<63.5	290
F-3/1'	6/16/2021	1'	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.5	<47	<14.2	<61.2	720
F-3/2'	6/16/2021	2'	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.8	<49	<14.6	<63.6	690

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
F-3/3'	6/16/2021	3'	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	84	350	84	434	1,400
F-3/4'	6/16/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.7	55	<14.7	55	820
F-4/0'	6/16/2021	0'	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<9.8	<49	<14.4	<63.4	210
F-4/1'	6/16/2021	1'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<10	<50	<14.8	<64.8	3,100
F-4/2'	6/16/2021	2'	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	22	51	22	73	5,400
F-4/3'	6/16/2021	3'	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	130	200	130	330	6,000
F-4/4'	6/16/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.6	<48	<14.6	<62.6	6,100
G-1/0'	6/16/2021	0'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.5	<47	<14.4	<61.4	170
G-1/1'	6/16/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.9	<49	<14.8	<63.8	4,000
G-1/2'	6/16/2021	2'	<0.023	<0.046	<0.046	<0.093	<.208	<4.6	<10	<50	<14.6	<64.6	5,100
G-1/3'	6/16/2021	3'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.8	<49	<14.8	<63.8	4,400
G-1/4'	6/16/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.7	<49	<14.5	<63.5	4,700
G-2/0'	6/16/2021	0'	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.6	<48	<14.4	<62.4	1,000
G-2/1'	6/16/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.5	<48	<14.4	<62.4	850
G-2/2'	6/16/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.9	<49	<14.7	<63.7	4,300
G-2/3'	6/16/2021	3'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<10	<50	<14.8	<64.8	5,400
G-2/4'	6/16/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.8	<49	<14.6	<63.6	5,100
Initial Site Assessment Grab sample locations : July 16, 2021													
W-1/0'	6/16/2021	0'	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	10	65	10	76	61
W-1/1'	6/16/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.9	<50	<14.8	<64.8	<60
W-1/2'	6/16/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.9	<50	<14.9	<64.9	160
W-1/3'	6/16/2021	3'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.0	<45	<13.8	<58.8	330
W-1/4'	6/16/2021	4'	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<10	<50	<14.7	<64.7	580
NW-1/0'	6/16/2021	0'	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.1	<45	<13.7	<58.7	170
NW-1/1'	6/16/2021	1'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.6	<48	<14.4	<62.4	130
NW-1/2'	6/16/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<10	<50	<14.8	<64.8	<60
NW-1/3'	6/16/2021	3'	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<9.9	<49	<14.5	<63.5	<59
NW-1/4'	6/16/2021	4'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.8	<49	<14.8	<63.8	99

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
NW-2/0'	6/16/2021	0'	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.3	<47	<14.2	<61.2	93
NW-2/1'	6/16/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.3	<47	<14.2	<61.2	250
NW-2/2'	6/16/2021	2'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.9	<49	<14.8	<63.8	<60
NW-2/3'	6/16/2021	3'	<0.024	<0.049	<0.049	<0.097	<0.220	<4.9	<9.2	<46	<14.1	<60.1	<60
NW-2/4'	6/16/2021	4'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<8.6	<43	<13.6	<56.6	65
N-1/0'	6/16/2021	0'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.6	<48	<14.5	<62.5	99
N-1/1'	6/16/2021	1'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<8.7	<43	<13.5	<56.5	130
N-1/2'	6/16/2021	2'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.4	<47	<14.3	<61.3	440
N-1/3'	6/16/2021	3'	<0.025	<0.049	<0.049	<0.10	<0.223	<5.0	<9.5	<48	<14.5	<62.5	500
N-1/4'	6/16/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.5	<48	<14.4	<62.4	720
NE-1/0'	6/16/2021	0'	<0.024	<0.048	<0.048	<0.097	<0.216	<4.8	<8.4	<42	<13.2	<55.2	<60
NE-1/1'	6/16/2021	1'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<10	<50	<14.9	<64.9	390
NE-1/2'	6/16/2021	2'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.7	<48	<14.6	<62.6	770
NE-1/3'	6/16/2021	3'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.2	<46	<14.2	<60.2	220
NE-1/4'	6/16/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.5	<48	<14.3	<62.3	180
NE-2/0'	6/16/2021	0'	<0.025	<0.050	<0.050	<0.10	<0.225	5.0	10	50	<15.0	<65.0	150
NE-2/1'	6/16/2021	1'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.2	<46	<14.0	<60.0	730
NE-2/2'	6/16/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<10	<51	<14.8	<65.8	500
NE-2/3'	6/16/2021	3'	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<9.9	<50	<14.6	<64.6	240
NE-2/4'	6/16/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.5	<47	<14.5	<61.5	130
NE-3/0'	6/16/2021	0'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.4	<47	<14.3	<61.3	330
NE-3/1'	6/16/2021	1'	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.9	<49	<14.6	<63.6	1,600
NE-3/2'	6/16/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.3	<47	<14.2	<61.2	890
NE-3/3'	6/16/2021	3'	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.6	<48	<14.3	<62.3	1,400
NE-3/4'	6/16/2021	4'	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.6	<48	<14.5	<62.5	2,100
E-1/0'	6/16/2021	0'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.8	90	<14.6	90	<59
E-1/1'	6/16/2021	1'	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.8	<49	<14.5	<63.5	2,900
E-1/2'	6/16/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<9.7	<49	<14.5	<58.7	5,000
E-1/3'	6/16/2021	3'	<0.023	<0.046	<0.046	<0.091	<0.206	<4.6	9.7	<48	9.7	9.7	4,800

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
E-1/4'	6/16/2021	4'	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	29	57	29	86	10,000
SE-2/0'	6/16/2021	0'	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<10	<50	<14.6	<64.6	<60
SE-2/1'	6/16/2021	1'	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.8	<49	<14.6	<63.6	5,300
SE-2/2'	6/16/2021	2'	<0.023	<0.047	<0.047	<0.094	<0.211	<4.7	<9.4	<47	<14.1	<61.1	9,100
SE-2/3'	6/16/2021	3'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<9.8	<49	<14.6	<63.6	9,600
SE-2/4'	6/16/2021	4'	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<9.3	<46	<14	<60	9,900
SE-1/0'	6/16/2021	0'	<0.023	<0.046	<0.046	<0.091	<0.206	<4.6	<9.3	<47	<13.9	<60.9	98
SE-1/1'	6/16/2021	1'	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<10	<50	<14.9	<64.9	6,100
SE-1/2'	6/16/2021	2'	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<10	<50	<14.6	<64.6	7,000
SE-1/3'	6/16/2021	3'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.9	<49	<14.8	<63.8	7,100
SE-1/4'	6/16/2021	4'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.6	<48	<15	<63	7,400
S-1/0'	6/16/2021	0'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.2	<46	<14.1	<60.1	78
S-1/1'	6/16/2021	1'	<0.025	<0.050	<0.050	<0.099	<0.224	<5.0	<9.9	<49	<14.9	<63.9	320
S-1/2'	6/16/2021	2'	<0.025	<0.050	<0.050	<0.100	<0.225	<5.0	<9.6	<48	<14.6	<62.6	200
S-1/3'	6/16/2021	3'	<0.024	<0.048	<0.048	<0.095	<0.215	<4.8	<9.3	<47	<14.1	<61.1	<60
S-1/4'	6/16/2021	4'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.5	<47	<14.4	<61.4	63
SW-3/0'	6/16/2021	0'	<0.024	<0.049	<0.049	<0.098	<0.219	<4.9	<9.0	<45	<13.9	<58.9	<60
SW-3/1'	6/16/2021	1'	<0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<8.7	<44	<13.5	<57.5	440
SW-3/2'	6/16/2021	2'	<0.025	<0.049	<0.049	<0.099	<0.222	<4.9	<9.7	<48	<14.6	<62.6	630
SW-3/3'	6/16/2021	3'	<0.023	<0.047	<0.047	<0.093	<0.210	<4.7	<9.5	<48	<14.2	<62.2	250
SW-3/4'	6/16/2021	4'	<0.024	<0.049	<0.049	<0.098	<0.219	<4.9	<8.7	<43	<13.6	<56.6	250
SW-2/0'	6/16/2021	0'	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<8.6	<43	<13.2	<56.2	<59
SW-2/1'	6/16/2021	1'	<0.024	<0.048	<0.048	<0.097	<0.217	<4.8	<8.7	<44	<13.5	<57.5	<60
SW-2/2'	6/16/2021	2'	<0.024	<0.049	<0.049	<0.098	<0.220	<4.9	<9.3	<46	<14.2	<60.2	<60
SW-2/3'	6/16/2021	3'	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	<8.7	<44	<13.3	<57.3	<60
SW-2/4'	6/16/2021	4'	<0.024	<0.047	<0.047	<0.094	<0.212	<4.7	<9.8	<49	<14.5	<63.5	240
SW-1/0'	6/16/2021	0'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	12	48	12	60	3,100
SW-1/1'	6/16/2021	1'	<0.024	<0.049	<0.049	<0.097	<0.219	<4.9	<9.4	<47	<14.3	<61.3	110

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
SW-1/2'	6/16/2021	2'	<0.024	<0.047	<0.047	<0.095	<0.213	<4.7	<9.8	<49	<14.5	<63.5	100
SW-1/3'	6/16/2021	3'	<0.025	<0.049	<0.049	<0.098	<0.221	<4.9	<9.9	<50	<14.8	<64.8	<60
SW-1/4'	6/16/2021	4'	<0.025	<0.050	<0.050	<0.10	<0.225	<5.0	<9.5	<47	<14.5	<61.5	<60
Secondary Site Assessment Grab sample locations : July 21, 2021													
C-2.1/13'	7/21/2021	13'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	**3,100**
C-2.1/20'	7/21/2021	20'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	**1,200**
E-2.1/10'	7/21/2021	10'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.5	<47	<9.5	<47	**5,600**
E-2.1/20'	7/21/2021	20'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<48	<9.7	<48	**5,600**
F-4.1/10'	7/21/2021	10'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<48	<9.5	<48	**8,100**
F-4.1/20'	7/21/2021	20'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.6	<48	<9.6	<48	**12,000**
SE-2.1/10'	7/21/2021	10'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.8	<49	<9.8	<49	**8,800**
SE-2.1/20'	7/21/2021	20'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.8	<49	<9.8	<49	**6,600**
E-1.1/10'	7/21/2021	10'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.4	<47	<9.4	<47	**4,200**
E-1.1/20'	7/21/2021	20'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.7	<48	<9.7	<48	**7,900**
N-1.1/5'	7/21/2021	5'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.3	<46	<9.3	<46	410
N-1.1/6'	7/21/2021	6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.3	<46	<9.3	<46	400
N-1.N/0'	7/21/2021	0'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	410
N-1.N/2'	7/21/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<9.4	<47	69
N-1.N/4'	7/21/2021	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.5	<47	<9.5	<47	190
NE-1.A/0'	7/21/2021	0'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.6	<48	<9.6	<48	<61
NE-1.A/2'	7/21/2021	2'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.8	<49	<9.8	<49	470
NE-1.A/4'	7/21/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.8	<49	<9.8	<49	360
NE-2.A/0'	7/21/2021	0'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.7	<48	<9.7	<48	<60
NE-2.A/2'	7/21/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.4	<47	<9.4	<47	100
NE-2.A/4'	7/21/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.4	<47	<9.4	<47	150

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
SW-3.A/0'	7/21/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.5	<47	<9.5	<47	<59
SW-3.A/2'	7/21/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.8	<49	<9.8	<49	<60
SW-3.A/4'	7/21/2021	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<49	<9.7	<49	240
SW-1.A/0'	7/21/2021	0'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.7	<48	<9.7	<48	<60
SW-1.A/2'	7/21/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	<60
SW-1.A/4'	7/21/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.2	<46	<9.2	<46	180
SE-1.A/2'	7/21/2021	2'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	**11,000**
SE-1.A/4'	7/21/2021	4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.7	<48	<9.7	<48	**9,200**
SE-2.A/2'	7/21/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	**11,000**
SE-2.A/4'	7/21/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.6	<48	<9.6	<48	**12,000**
E-1.A/2'	7/21/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.5	<48	<9.5	<48	**14,000**
E-1.A/4'	7/21/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.5	<47	<9.5	<47	**13,000**
NE-3.A/3'	7/21/2021	3'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.7	<48	<9.7	<48	**2,200**
NE-3.A/4'	7/21/2021	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.9	<49	<9.9	<49	**2,100**
N-1.E/2'	7/21/2021	2'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.2	<46	<9.2	<46	**950**
N-1.E/4'	7/21/2021	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.5	<47	<9.5	<47	**670**
N-1.E.A/2'	7/22/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.4	<47	<9.4	<47	**880**
N-1.E.A/4'	7/22/2021	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<9.3	<46	<9.3	<46	**790**
N-1.E.B/0'	7/22/2021	0'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.7	<48	<9.7	<48	<60
N-1.E.B/2'	7/22/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	310
N-1.E.B/4'	7/22/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.6	<48	<9.6	<48	510
N-1.NE/0'	7/22/2021	0'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.3	<46	<9.3	<46	<60
N-1.NE/2'	7/22/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.9	<49	<9.9	<49	200
N-1.NE/4'	7/22/2021	4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.5	<47	<9.5	<47	140

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
NE-3.B/2'	7/22/2021	2'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.7	<48	<9.7	<48	4,900
NE-3.B/4'	7/22/2021	4'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.6	<48	<9.6	<48	5,200
NE-3.C/2'	7/22/2021	2'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.1	<46	<9.1	<46	1,200
NE-3.C/4'	7/22/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.0	<45	<9.0	<45	1,100
NE-3.D/2'	7/22/2021	2'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.9	<49	<9.9	<49	2,000
NE-3.D/4'	7/22/2021	4'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.9	<50	<9.9	<50	1,200
NE-3.E/2'	7/22/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<9.4	<47	1,700
NE-3.E/4'	7/22/2021	4'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<9.3	<47	<9.3	<47	1,800
NE-3.F/2'	7/22/2021	2'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.7	<48	<9.7	<48	1,500
NE-3.F/4'	7/22/2021	4'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.6	<48	<9.6	<48	1,300
NE-3.G/0'	7/22/2021	0'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.8	<49	<9.8	<49	<60
NE-3.G/2'	7/22/2021	2'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	<60
NE-3.G/4'	7/22/2021	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	190
E-1.B/2'	7/22/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.8	<49	<9.8	<49	11,000
E-1.B/4'	7/22/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.7	<49	<9.7	<49	12,000
E-1.C/2'	7/22/2021	2'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.1	<46	<9.1	<46	1,200
E-1.C/4'	7/22/2021	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.7	<48	<9.7	<48	1,300
E-1.D/2'	7/22/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.4	<47	<9.4	<47	1,100
E-1.D/4'	7/22/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.7	<49	<9.7	<49	1,000
E-1.E/0'	7/22/2021	0'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.9	<49	<9.9	<49	<60
E-1.E/2'	7/22/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.5	<47	<9.5	<47	<60
E-1.E/4'	7/22/2021	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.8	<49	<9.8	<49	210
SE-2.B/2'	7/22/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<9.8	<49	8,300

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
SE-2.B/4	7/22/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.4	<47	<9.4	<47	8,500
SE-2.C/0'	7/22/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.9	<49	<9.9	<49	<60
SE-2.C/2'	7/22/2021	2'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.5	<47	<9.5	<47	160
SE-2.C/4'	7/22/2021	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.8	<49	<9.8	<49	560
SE-1.B/2'	7/22/2021	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<47	<9.3	<47	1,600
SE-1.B/4'	7/22/2021	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.5	<47	<9.5	<47	680
SE-1.C/0'	7/22/2021	0'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.9	<49	<9.9	<49	<60
SE-1.C/2'	7/22/2021	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.5	<48	<9.5	<48	970
SE-1.C/4'	7/22/2021	4'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<9.7	<49	<9.7	<49	520
Additional Site Assessment Grab sample locations : January 12, 2022													
NNE-1/2'	1/12/2022	2'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.3	<46	<9.3	<46	1,200
NNE-1/4'	1/12/2022	4'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.0	<45	<9.0	<45	990
NNE-1.A/1'	1/12/2022	1'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	<61
NNE-1.A/4'	1/12/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<9.4	<47	640
NNE-2/2'	1/12/2022	2'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<9.5	<48	<9.5	<48	1,400
NNE-2/4'	1/12/2022	4'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.8	<49	<9.8	<49	1,500
NNE-2.A/2'	1/12/2022	2'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.8	<49	<9.8	<49	1,300
NNE-2.A/4'	1/12/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.7	<48	<9.7	<48	830
NNE-2.B/1'	1/12/2022	1'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.7	<49	<9.7	<49	<59
NNE-2.B/4'	1/12/2022	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<9.4	<47	<9.4	<47	500
ESE-1/2'	1/12/2022	2	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<10	<50	<10	<50	1,700
ESE-1/4'	1/12/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.9	<49	<9.9	<49	1,900
ESE-1.N/1'	1/12/2022	1'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.7	<49	<9.7	<49	1,100
ESE-1.N/4'	1/12/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.9	<49	<9.9	<49	620

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
ESE-1-N.1/2'	1/12/2022	2'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.5	<47	<9.5	<47	1,400
ESE-1-N.1/4'	1/12/2022	4'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<10	<50	<10	<50	1,300
ESE-1-N.2/2'	1/12/2022	2'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.4	<47	<9.4	<47	<60
ESE-1-N.2/4'	1/12/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.4	<47	<9.4	<47	<60
ESE-1-S/2'	1/12/2022	2'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.7	<49	<9.7	<49	2,000
ESE-1-S/4'	1/12/2022	4'	<0.023	<0.047	<0.047	<0.094	<0.09	<4.7	<9.6	<48	<9.6	<48	1,500
ESE-1-S.1/1'	1/12/2022	1'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.6	<48	<9.6	<48	<60
ESE-1-S.1/4'	1/12/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<48	<9.5	<48	89
ESE-2/3'	1/12/2022	3'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	1,000
ESE-2/4'	1/12/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<49	<9.7	<49	770
ESE-2.A/2'	1/12/2022	2'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.4	<47	<9.4	<47	110
ESE-2.A/4'	1/12/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<10	<50	<10	<50	780
ESE-2.B/2'	1/12/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.4	<47	<9.4	<47	<60
ESE-2.B/4'	1/12/2022	3'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<10	<50	<10	<50	280
ESE-2.C/1'	1/12/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<9.6	<48	<9.6	<48	120
ESE-2.C/4'	1/12/2022	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<10	<50	110
SSW-1/1'	1/12/2022	1'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<10	<50	<10	<50	<60
SSW-1/4'	1/12/2022	4'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<10	<50	<10	<50	<60
SSW-2/1'	1/12/2022	2'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<9.9	<50	<9.9	<50	<60
SSW-2/4'	1/12/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.8	<49	<9.8	<49	<60
SSE-1/3'	1/12/2022	3'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.6	<48	<9.6	<48	830
SSE-1/4'	1/12/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.8	<49	<9.8	<49	680

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
SSE-1.A/1'	1/12/2022	1'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.8	<49	<9.8	<49	250
SSE-1.A/4'	1/12/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.6	<48	<9.6	<48	280
SSE-2/1'	1/12/2022	1'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<10	<50	<10	<50	170
SSE-2/4'	1/12/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<9.4	<47	<9.4	<47	450
Soil Boring Assessment Soil Samples : February 23, 2022													
BG-1/2'	2/23/2022	2'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<10	<50	<10	<50	<60
BG-1/22'	2/23/2022	22'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	21	<47	21	21	77
BG-1/42'	2/23/2022	42'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<9.2	<46	<9.2	<46	<60
SB-1/20'	2/23/2022	20'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<9.9	<49	<9.9	<49	6,200
SB-1/40'	2/23/2022	40'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<9.9	<50	<9.9	<50	270
SB-1/41'	2/23/2022	41'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<9.3	<46	<9.3	<46	170
SB-1/42'	2/23/2022	42'	<0.024	<0.048	<0.048	<0.095	<0.10	<4.8	<9.2	<46	<9.2	<46	190
SB-2/25'	2/23/2022	25'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	14	<48	14	14	1,400
SB-2/35'	2/23/2022	35'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<9.1	<46	<9.1	<46	490
SB-2/40'	2/23/2022	40'	0.038	<0.050	<0.050	<0.099	0.04	<5.0	<10	<50	<10	<50	330
SB-2/41'	2/23/2022	41'	<0.023	<0.046	<0.046	<0.092	<0.09	<4.6	<9.5	<48	<9.5	<48	320
SB-2/42'	2/23/2022	42'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<9.3	<47	<9.3	<47	370
Additional Vertical Assessment Soil Samples : June 30 & July 1, 2022													
N-1.E.A(A) 1	6/30/2022	1'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<15	<50	1,100
N-1.E.A(A) 4	6/30/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<14	<47	<14	<47	<60
NE-3.B(A) 3	6/30/2022	3'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<47	<14	<47	<60
NE-3.B(A) 6	6/30/2022	6'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<15	<50	720
E-1.A(A) 17	6/30/2022	17'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<48	<14	<48	20,000
E-1.A(A) 20	6/30/2022	20'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	17,000
SE-2A(A) 17	6/30/2022	17'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	21,000
SE-2A(A) 20	6/30/2022	20'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<49	<15	<49	17,000

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
SE-2-B(A) 17	6/30/2022	17'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<49	<15	<49	10,000
SE-2-B(A) 20	6/30/2022	20'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<15	<50	4,400
E-1.C(A) 4	6/30/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<49	<15	<49	1,300
E-1.C(A) 12	6/30/2022	12'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	300
E-1.D(A) 4	7/1/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<15	<49	<15	<49	1,000
E-1.D(A) 8	7/1/2022	8'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<14	<47	<14	<47	700
ESE-1(A) 4	7/1/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	1,100
ESE-1(A) 10	7/1/2022	10'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	420
ESE-1(A) 12	7/1/2022	12'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<48	<15	<48	720
ESE-1.N.1(A) 5	7/1/2022	5'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<49	<15	<49	1,300
ESE-1.N.1(A) 9	7/1/2022	9'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<49	<15	<49	570
ESE-1.N.1(A) 10	7/1/2022	10'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<47	<14	<47	570
ESE-2.A(A) 4	7/1/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	1,600
ESE-2.A(A) 7	7/1/2022	7'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<49	<15	<49	620
ESE-2.A(A) 10	7/1/2022	10'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<47	<14	<47	670
NE-3.E(A) 2	7/1/2022	2'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<15	<49	<15	<49	1,500
NE-3.E(A) 8	7/1/2022	8'	<0.025	<0.049	<0.049	<0.099	<0.10	<4.9	<15	<50	<15	<50	560
NE-3.E(A) 10	7/1/2022	10'	<0.024	<0.049	<0.049	<0.097	<0.10	<4.9	<15	<49	<15	<49	550
NNE-2(A) 4	7/1/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<50	<15	<50	990
NNE-2(A) 12	7/1/2022	12'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<49	<15	<49	310
Soil Boring Assessment Soil Samples : September & October, 2022													
SB-3/15	9/28/2022	15'	<0.020	<0.040	<0.040	<0.081	<0.08	<4.0	<15	<50	<15	<50	18,000
SB-3/30	9/28/2022	30'	<0.016	<0.031	<0.031	<0.063	<0.06	<3.1	<15	<49	<15	<49	550
SB-3/32	9/28/2022	32'	<0.028	<0.056	<0.056	<0.11	<0.11	<5.6	<15	<49	<15	<49	420

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

SITE ASSESSMENT SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
INEX #3
EDDY COUNTY, NEW MEXICO

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
SB-4/20	9/28/2022	20'	<0.018	<0.036	<0.036	<0.073	<0.07	<3.6	<15	<49	<15	<49	**16,000**
SB-4/30	9/28/2022	30'	<0.019	<0.038	<0.038	<0.076	<0.08	<3.8	<14	<46	<14	<46	**1,200**
SB-4/32	9/28/2022	32'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<15	<49	<15	<49	**670**
SB-4/33'	10/5/2022	33'	<0.017	<0.035	<0.035	<0.070	<0.07	<3.5	<14	<48	<14	<48	400
Vertical Assessment Soil Samples : October 24, 2022													
NE-3-B(B) @ 6	10/24/2022	6'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<14	<48	<14	<48	**1,000**
NE-3-B(B) @ 13	10/24/2022	13'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<48	<14	<48	**760**
ESE-1(B) @ 12	10/24/2022	12'	<0.023	<0.047	<0.047	<0.093	<0.09	<4.7	<14	<48	<14	<48	**700**
ESE-1(B) @ 14	10/24/2022	14'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<15	<50	<15	<50	300
E-1-D(B) @ 8	10/24/2022	8'	<0.023	<0.046	<0.046	<0.093	<0.09	<4.6	<15	<49	<15	<49	530
E-1-D(B) @ 10	10/24/2022	10'	<0.024	<0.049	<0.049	<0.098	<0.10	<4.9	<15	<50	<15	<50	470
ESE-2-A(A) @ 10	10/24/2022	10'	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<14	<46	<14	<46	**740**
ESE-2-A(A) @ 13	10/24/2022	13'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<50	<15	<50	360
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW ≤50')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**---**	**100**	**600**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**600**

Notes:

1. Results exceeding the target closure criteria are presented in bold, red type and are highlighted yellow.

TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

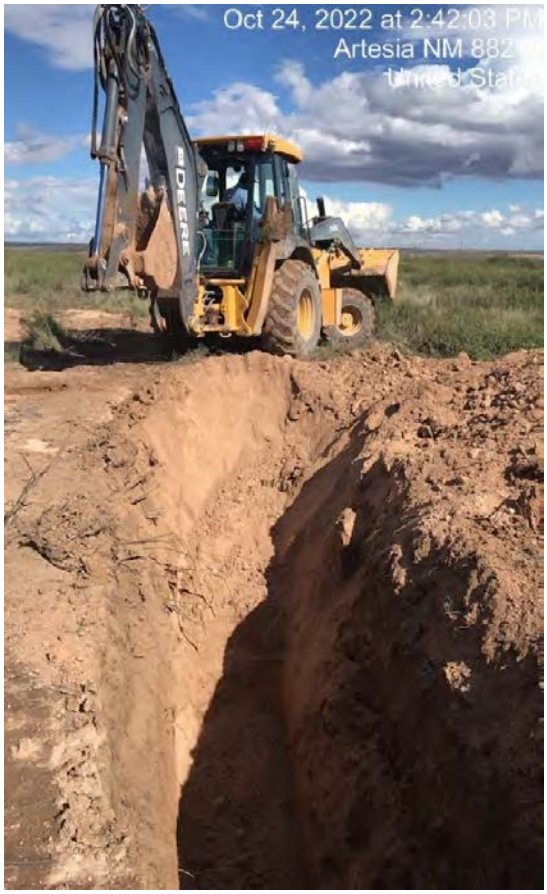
ATTACHMENT 1

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPH NO. 1 – A typical view of the site drilling activities on September 28, 2022.

PHOTOGRAPH NO. 2 – A typical view of the installed temporary monitor wells.

PHOTOGRAPH NO. 3 – A typical view of the gauging of the temporary monitor wells.



PHOTOGRAPH NO. 4 – A typical view of the vertical delineation test trench sampling activities conducted on October 24, 2022.

ATTACHMENT 2

Laboratory Analytical Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 07, 2022

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

RE: Inex 3 OrderNo.: 2209H01

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/30/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2209H01**
Date Reported: **10/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: SB-3/15
Project: Inex 3
Collection Date: 9/28/2022 8:33:00 AM
Lab ID: 2209H01-001
Matrix: MEOH (SOIL)
Received Date: 9/30/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	18000	600		mg/Kg	200	10/4/2022 10:18:39 PM	70524
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 11:08:37 AM	70508
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/30/2022 11:08:37 AM	70508
Surr: DNOP	86.8	21-129		%Rec	1	9/30/2022 11:08:37 AM	70508
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/30/2022 10:35:00 AM	C91437
Surr: BFB	108	37.7-212		%Rec	1	9/30/2022 10:35:00 AM	C91437
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.020		mg/Kg	1	9/30/2022 10:35:00 AM	D91437
Toluene	ND	0.040		mg/Kg	1	9/30/2022 10:35:00 AM	D91437
Ethylbenzene	ND	0.040		mg/Kg	1	9/30/2022 10:35:00 AM	D91437
Xylenes, Total	ND	0.081		mg/Kg	1	9/30/2022 10:35:00 AM	D91437
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/30/2022 10:35:00 AM	D91437

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

Qualifiers:

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

Analytical Report
Lab Order **2209H01**
Date Reported: **10/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SB-3/30
Project: Inex 3 **Collection Date:** 9/28/2022 9:05:00 AM
Lab ID: 2209H01-002 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	550	60		mg/Kg	20	9/30/2022 6:17:21 PM	70524
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 11:19:16 AM	70508
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 11:19:16 AM	70508
Surr: DNOP	86.7	21-129		%Rec	1	9/30/2022 11:19:16 AM	70508
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	9/30/2022 10:55:00 AM	C91437
Surr: BFB	105	37.7-212		%Rec	1	9/30/2022 10:55:00 AM	C91437
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.016		mg/Kg	1	9/30/2022 10:55:00 AM	D91437
Toluene	ND	0.031		mg/Kg	1	9/30/2022 10:55:00 AM	D91437
Ethylbenzene	ND	0.031		mg/Kg	1	9/30/2022 10:55:00 AM	D91437
Xylenes, Total	ND	0.063		mg/Kg	1	9/30/2022 10:55:00 AM	D91437
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	9/30/2022 10:55:00 AM	D91437

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

Qualifiers:

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

Analytical Report
Lab Order **2209H01**
Date Reported: **10/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SB-3/32
Project: Inex 3 **Collection Date:** 9/28/2022 9:10:00 AM
Lab ID: 2209H01-003 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	420	60		mg/Kg	20	9/30/2022 6:29:41 PM	70524
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 11:29:55 AM	70508
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 11:29:55 AM	70508
Surr: DNOP	87.0	21-129		%Rec	1	9/30/2022 11:29:55 AM	70508
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg	1	9/30/2022 11:14:00 AM	C91437
Surr: BFB	106	37.7-212		%Rec	1	9/30/2022 11:14:00 AM	C91437
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.028		mg/Kg	1	9/30/2022 11:14:00 AM	D91437
Toluene	ND	0.056		mg/Kg	1	9/30/2022 11:14:00 AM	D91437
Ethylbenzene	ND	0.056		mg/Kg	1	9/30/2022 11:14:00 AM	D91437
Xylenes, Total	ND	0.11		mg/Kg	1	9/30/2022 11:14:00 AM	D91437
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	9/30/2022 11:14:00 AM	D91437

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

Qualifiers:

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

Analytical Report
Lab Order **2209H01**
Date Reported: **10/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SB-4/20
Project: Inex 3 **Collection Date:** 9/28/2022 10:25:00 AM
Lab ID: 2209H01-004 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	16000	600		mg/Kg	200	10/3/2022 8:48:27 AM	70524
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 11:40:36 AM	70508
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 11:40:36 AM	70508
Surr: DNOP	87.6	21-129		%Rec	1	9/30/2022 11:40:36 AM	70508
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/30/2022 11:34:00 AM	C91437
Surr: BFB	102	37.7-212		%Rec	1	9/30/2022 11:34:00 AM	C91437
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.018		mg/Kg	1	9/30/2022 11:34:00 AM	D91437
Toluene	ND	0.036		mg/Kg	1	9/30/2022 11:34:00 AM	D91437
Ethylbenzene	ND	0.036		mg/Kg	1	9/30/2022 11:34:00 AM	D91437
Xylenes, Total	ND	0.073		mg/Kg	1	9/30/2022 11:34:00 AM	D91437
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	9/30/2022 11:34:00 AM	D91437

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

Qualifiers:

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

Analytical Report
Lab Order **2209H01**
Date Reported: **10/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SB-4/30
Project: Inex 3 **Collection Date:** 9/28/2022 10:34:00 AM
Lab ID: 2209H01-005 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1200	61		mg/Kg	20	9/30/2022 7:19:04 PM	70524
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/30/2022 11:51:16 AM	70508
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/30/2022 11:51:16 AM	70508
Surr: DNOP	88.1	21-129		%Rec	1	9/30/2022 11:51:16 AM	70508
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/30/2022 11:54:00 AM	C91437
Surr: BFB	107	37.7-212		%Rec	1	9/30/2022 11:54:00 AM	C91437
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.019		mg/Kg	1	9/30/2022 11:54:00 AM	D91437
Toluene	ND	0.038		mg/Kg	1	9/30/2022 11:54:00 AM	D91437
Ethylbenzene	ND	0.038		mg/Kg	1	9/30/2022 11:54:00 AM	D91437
Xylenes, Total	ND	0.076		mg/Kg	1	9/30/2022 11:54:00 AM	D91437
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	9/30/2022 11:54:00 AM	D91437

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

Qualifiers:

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

Analytical Report
Lab Order **2209H01**
Date Reported: **10/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** SB-4/32
Project: Inex 3 **Collection Date:** 9/28/2022 10:35:00 AM
Lab ID: 2209H01-006 **Matrix:** MEOH (SOIL) **Received Date:** 9/30/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JMT**
Chloride	670	60		mg/Kg	20	9/30/2022 7:31:25 PM	70524
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/30/2022 12:01:58 PM	70508
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/30/2022 12:01:58 PM	70508
Surr: DNOP	88.4	21-129		%Rec	1	9/30/2022 12:01:58 PM	70508
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/30/2022 3:00:00 PM	C91437
Surr: BFB	106	37.7-212		%Rec	1	9/30/2022 3:00:00 PM	C91437
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.023		mg/Kg	1	9/30/2022 3:00:00 PM	D91437
Toluene	ND	0.047		mg/Kg	1	9/30/2022 3:00:00 PM	D91437
Ethylbenzene	ND	0.047		mg/Kg	1	9/30/2022 3:00:00 PM	D91437
Xylenes, Total	ND	0.093		mg/Kg	1	9/30/2022 3:00:00 PM	D91437
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	9/30/2022 3:00:00 PM	D91437

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H01**

07-Oct-22

Client: EOG

Project: Inex 3

Sample ID:	**MB-70524**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**70524**	RunNo:	**91446**					
Prep Date:	**9/30/2022**	Analysis Date:	**9/30/2022**	SeqNo:	**3275330**	Units:	**mg/Kg**			

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

Sample ID:	**LCS-70524**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**70524**	RunNo:	**91446**					
Prep Date:	**9/30/2022**	Analysis Date:	**9/30/2022**	SeqNo:	**3275331**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H01**

07-Oct-22

Client: EOG

Project: Inex 3

Sample ID: **LCS-70508**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70508**	RunNo: **91439**
Prep Date: **9/30/2022**	Analysis Date: **9/30/2022**	SeqNo: **3274444** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	15	50.00	0	67.1	64.4	127			
Surr: DNOP	3.7		5.000		73.5	21	129			

Sample ID: **MB-70508**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70508**	RunNo: **91439**
Prep Date: **9/30/2022**	Analysis Date: **9/30/2022**	SeqNo: **3274447** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.8		10.00		77.5	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H01**

07-Oct-22

Client: EOG

Project: Inex 3

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **C91437**	RunNo: **91437**
Prep Date:	Analysis Date: **9/30/2022**	SeqNo: **3275446** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.8	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **C91437**	RunNo: **91437**
Prep Date:	Analysis Date: **9/30/2022**	SeqNo: **3275447** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		112	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2209H01**

07-Oct-22

Client: EOG

Project: Inex 3

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **D91437**	RunNo: **91437**
Prep Date:	Analysis Date: **9/30/2022**	SeqNo: **3275476** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.93	0.050	1.000	0	93.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **D91437**	RunNo: **91437**
Prep Date:	Analysis Date: **9/30/2022**	SeqNo: **3275477** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2209H01 | RcptNo: 1

Received By: Juan Rojas 9/30/2022 7:30:00 AM

Completed By: Cheyenne Cason 9/30/2022 8:00:22 AM

Reviewed By: 9-30-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

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

Adjusted?

Checked by: JR 9/30/22

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Not Present			

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

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

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☑ **Rush** 24 hr

Project Name: Inex #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.3+0.2=2.5

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2209H01	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
9/28/22	0833	Soil	SB-3/15	1 x 4oz Jar	ICE	001	X	X	X
"	0905	"	SB-3/30	"	"	002	"	"	"
"	0920	"	SB-3/32	"	"	003	"	"	"
"	1025	"	SB-4/20	"	"	004	"	"	"
"	1034	"	SB-4/30	"	"	005	"	"	"
"	1035	"	SB-4/32	"	"	006	"	"	"

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/29/22	0835	W. Kennedy	Acumins	-	9/29/22	835
9/29/22	1900	Acumins	[signature]	courier	9/30/22	7:30

Remarks: Bill to EOG Artesia

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 17, 2022

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

RE: Inex 3 OrderNo.: 2210375

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/7/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2210375**
Date Reported: **10/17/2022**

CLIENT: EOG
Client Sample ID: SB-4/33
Project: Inex 3
Collection Date: 10/5/2022 9:57:00 AM
Lab ID: 2210375-001
Matrix: MEOH (SOIL)
Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	400	60		mg/Kg	20	10/8/2022 4:50:27 PM	70686
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/8/2022 12:19:57 AM	70684
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/8/2022 12:19:57 AM	70684
Surr: DNOP	84.3	21-129		%Rec	1	10/8/2022 12:19:57 AM	70684
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	10/7/2022 10:27:00 AM	C91644
Surr: BFB	92.2	37.7-212		%Rec	1	10/7/2022 10:27:00 AM	C91644
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.017		mg/Kg	1	10/7/2022 10:27:00 AM	D91644
Toluene	ND	0.035		mg/Kg	1	10/7/2022 10:27:00 AM	D91644
Ethylbenzene	ND	0.035		mg/Kg	1	10/7/2022 10:27:00 AM	D91644
Xylenes, Total	ND	0.070		mg/Kg	1	10/7/2022 10:27:00 AM	D91644
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	10/7/2022 10:27:00 AM	D91644

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210375**

17-Oct-22

Client: EOG

Project: Inex 3

Sample ID:	**MB-70686**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**70686**	RunNo:	**91659**					
Prep Date:	**10/7/2022**	Analysis Date:	**10/8/2022**	SeqNo:	**3284244**	Units:	**mg/Kg**			

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

Sample ID:	**LCS-70686**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**70686**	RunNo:	**91659**					
Prep Date:	**10/7/2022**	Analysis Date:	**10/8/2022**	SeqNo:	**3284245**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210375**

17-Oct-22

Client: EOG

Project: Inex 3

Sample ID: **LCS-70684**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **70684**	RunNo: **91633**
Prep Date: **10/7/2022**	Analysis Date: **10/8/2022**	SeqNo: **3284495** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	15	50.00	0	67.8	64.4	127			
Surr: DNOP	3.4		5.000		67.4	21	129			

Sample ID: **MB-70684**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **70684**	RunNo: **91633**
Prep Date: **10/7/2022**	Analysis Date: **10/7/2022**	SeqNo: **3284497** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		83.4	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210375**

17-Oct-22

Client: EOG

Project: Inex 3

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **C91644**	RunNo: **91644**
Prep Date:	Analysis Date: **10/7/2022**	SeqNo: **3283579** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.8	72.3	137			
Surr: BFB	2200		1000		218	37.7	212			S

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **C91644**	RunNo: **91644**
Prep Date:	Analysis Date: **10/7/2022**	SeqNo: **3283580** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Sample ID: **lcs-70659**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **70659**	RunNo: **91644**
Prep Date: **10/6/2022**	Analysis Date: **10/7/2022**	SeqNo: **3283584** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		200	37.7	212			

Sample ID: **mb-70659**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **70659**	RunNo: **91644**
Prep Date: **10/6/2022**	Analysis Date: **10/7/2022**	SeqNo: **3283585** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		96.1	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210375**

17-Oct-22

Client: EOG

Project: Inex 3

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **D91644**	RunNo: **91644**
Prep Date:	Analysis Date: **10/7/2022**	SeqNo: **3283599** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.4	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **D91644**	RunNo: **91644**
Prep Date:	Analysis Date: **10/7/2022**	SeqNo: **3283600** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: **lcs-70659**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **70659**	RunNo: **91644**
Prep Date: **10/6/2022**	Analysis Date: **10/7/2022**	SeqNo: **3283604** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	70	130			

Sample ID: **mb-70659**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **70659**	RunNo: **91644**
Prep Date: **10/6/2022**	Analysis Date: **10/7/2022**	SeqNo: **3283605** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.4	70	130			

Qualifiers:

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

ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2210375 | RcptNo: 1

Received By: Juan Rojas 10/7/2022 7:10:00 AM

Completed By: Cheyenne Cason 10/7/2022 7:34:08 AM

Reviewed By: 10-7-22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Client		

Log In

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

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

Adjusted?

Checked by: JR 10/7/22

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.9	Good	Not Present			

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

Mailing Address: EOG - 105 S 4th St, Artesia NM, 88210

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

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

Accreditation: ☐ Az Compliance
■ **NELAC** ☐ Other_____
■ **EDD** (Type) Excel

Turn-Around Time:
☐ Standard ☒ **Rush** 24 hr

Project Name: Iner #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. Kennedy
On Ice: ☒ Yes ☐ No
# of Coolers: 1
Cooler Temp (including CF): 1.9-0=1.9

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210375	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
10/5/22	0957	Soil	~~SB-4~~ SB-4/33	1 x 4oz Jar	ICE	001	X	X	X

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/5/22	1430	W. Kennedy	J. Martinez		10/5/22	1430
10/6/22	805	J-martinez			10/6/22	805

Remarks: Bill to EOG Artesia

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

10/6/22 1900

10/7/22 7:10

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 02, 2022

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

RE: Inex 3 OrderNo.: 2210C52

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/26/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2210C52**
Date Reported: **11/2/2022**

CLIENT: EOG
Client Sample ID: NE-3-B(B) @ 6
Project: Inex 3
Collection Date: 10/24/2022 11:30:00 AM
Lab ID: 2210C52-001 **Matrix:** SOIL **Received Date:** 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1000	60		mg/Kg	20	10/31/2022 8:18:54 PM	71186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/28/2022 8:08:46 PM	71099
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/28/2022 8:08:46 PM	71099
Surr: DNOP	81.8	21-129		%Rec	1	10/28/2022 8:08:46 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2022 7:43:00 PM	71084
Surr: BFB	103	37.7-212		%Rec	1	10/28/2022 7:43:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/28/2022 7:43:00 PM	71084
Toluene	ND	0.049		mg/Kg	1	10/28/2022 7:43:00 PM	71084
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2022 7:43:00 PM	71084
Xylenes, Total	ND	0.098		mg/Kg	1	10/28/2022 7:43:00 PM	71084
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	10/28/2022 7:43:00 PM	71084

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2210C52**
Date Reported: **11/2/2022**

CLIENT: EOG
Client Sample ID: NE-3-B(B) @ 13
Project: Inex 3
Collection Date: 10/24/2022 12:14:00 PM
Lab ID: 2210C52-002 **Matrix:** SOIL **Received Date:** 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	760	59		mg/Kg	20	10/31/2022 8:31:18 PM	71186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/28/2022 8:19:21 PM	71099
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/28/2022 8:19:21 PM	71099
Surr: DNOP	86.2	21-129		%Rec	1	10/28/2022 8:19:21 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2022 8:02:00 PM	71084
Surr: BFB	100	37.7-212		%Rec	1	10/28/2022 8:02:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.024		mg/Kg	1	10/28/2022 8:02:00 PM	71084
Toluene	ND	0.048		mg/Kg	1	10/28/2022 8:02:00 PM	71084
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2022 8:02:00 PM	71084
Xylenes, Total	ND	0.096		mg/Kg	1	10/28/2022 8:02:00 PM	71084
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	10/28/2022 8:02:00 PM	71084

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210C52**
Date Reported: **11/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ESE-1(B) @ 12
Project: Inex 3
Collection Date: 10/24/2022 2:00:00 PM
Lab ID: 2210C52-003 **Matrix:** SOIL **Received Date:** 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	700	60		mg/Kg	20	10/31/2022 8:43:43 PM	71186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/28/2022 8:29:56 PM	71099
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/28/2022 8:29:56 PM	71099
Surr: DNOP	89.4	21-129		%Rec	1	10/28/2022 8:29:56 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2022 8:22:00 PM	71084
Surr: BFB	101	37.7-212		%Rec	1	10/28/2022 8:22:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/28/2022 8:22:00 PM	71084
Toluene	ND	0.047		mg/Kg	1	10/28/2022 8:22:00 PM	71084
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2022 8:22:00 PM	71084
Xylenes, Total	ND	0.093		mg/Kg	1	10/28/2022 8:22:00 PM	71084
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	10/28/2022 8:22:00 PM	71084

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2210C52**
Date Reported: **11/2/2022**

CLIENT: EOG
Client Sample ID: ESE-1(B) @ 14
Project: Inex 3
Collection Date: 10/24/2022 2:16:00 PM
Lab ID: 2210C52-004 **Matrix:** SOIL **Received Date:** 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	300	60		mg/Kg	20	10/31/2022 9:20:56 PM	71186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/28/2022 8:40:31 PM	71099
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/28/2022 8:40:31 PM	71099
Surr: DNOP	99.9	21-129		%Rec	1	10/28/2022 8:40:31 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**CCM**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2022 8:42:00 PM	71084
Surr: BFB	98.2	37.7-212		%Rec	1	10/28/2022 8:42:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.024		mg/Kg	1	10/28/2022 8:42:00 PM	71084
Toluene	ND	0.047		mg/Kg	1	10/28/2022 8:42:00 PM	71084
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2022 8:42:00 PM	71084
Xylenes, Total	ND	0.095		mg/Kg	1	10/28/2022 8:42:00 PM	71084
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	10/28/2022 8:42:00 PM	71084

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2210C52**
Date Reported: **11/2/2022**

CLIENT: EOG
Client Sample ID: E-1-D(B) @ 8
Project: Inex 3
Collection Date: 10/24/2022 2:40:00 PM
Lab ID: 2210C52-005 **Matrix:** SOIL **Received Date:** 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	530	60		mg/Kg	20	10/31/2022 9:33:20 PM	71186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/28/2022 8:51:03 PM	71099
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2022 8:51:03 PM	71099
Surr: DNOP	100	21-129		%Rec	1	10/28/2022 8:51:03 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/28/2022 9:01:00 PM	71084
Surr: BFB	101	37.7-212		%Rec	1	10/28/2022 9:01:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/28/2022 9:01:00 PM	71084
Toluene	ND	0.046		mg/Kg	1	10/28/2022 9:01:00 PM	71084
Ethylbenzene	ND	0.046		mg/Kg	1	10/28/2022 9:01:00 PM	71084
Xylenes, Total	ND	0.093		mg/Kg	1	10/28/2022 9:01:00 PM	71084
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	10/28/2022 9:01:00 PM	71084

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210C52**
Date Reported: **11/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: E-1-D(B) @ 10
Project: Inex 3
Collection Date: 10/24/2022 2:48:00 PM
Lab ID: 2210C52-006 **Matrix:** SOIL **Received Date:** 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	470	60		mg/Kg	20	10/31/2022 9:45:45 PM	71186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/28/2022 9:01:39 PM	71099
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/28/2022 9:01:39 PM	71099
Surr: DNOP	86.1	21-129		%Rec	1	10/28/2022 9:01:39 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2022 9:21:00 PM	71084
Surr: BFB	99.1	37.7-212		%Rec	1	10/28/2022 9:21:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/28/2022 9:21:00 PM	71084
Toluene	ND	0.049		mg/Kg	1	10/28/2022 9:21:00 PM	71084
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2022 9:21:00 PM	71084
Xylenes, Total	ND	0.098		mg/Kg	1	10/28/2022 9:21:00 PM	71084
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	10/28/2022 9:21:00 PM	71084

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2210C52**
Date Reported: **11/2/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: ESE-2-A(A) @ 10
Project: Inex 3
Collection Date: 10/24/2022 3:02:00 PM
Lab ID: 2210C52-007 **Matrix:** SOIL **Received Date:** 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**NAI**
Chloride	740	60		mg/Kg	20	10/31/2022 9:58:09 PM	71186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/28/2022 9:12:14 PM	71099
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/28/2022 9:12:14 PM	71099
Surr: DNOP	88.0	21-129		%Rec	1	10/28/2022 9:12:14 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**CCM**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2022 9:41:00 PM	71084
Surr: BFB	102	37.7-212		%Rec	1	10/28/2022 9:41:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst:	**CCM**
Benzene	ND	0.024		mg/Kg	1	10/28/2022 9:41:00 PM	71084
Toluene	ND	0.048		mg/Kg	1	10/28/2022 9:41:00 PM	71084
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2022 9:41:00 PM	71084
Xylenes, Total	ND	0.096		mg/Kg	1	10/28/2022 9:41:00 PM	71084
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	10/28/2022 9:41:00 PM	71084

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2210C52**
Date Reported: **11/2/2022**

CLIENT: EOG
Client Sample ID: ESE-2-A(A) @ 13
Project: Inex 3
Collection Date: 10/24/2022 3:30:00 PM
Lab ID: 2210C52-008 **Matrix:** SOIL **Received Date:** 10/26/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	360	60		mg/Kg	20	10/31/2022 10:10:34 PM	71186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/28/2022 9:22:49 PM	71099
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/28/2022 9:22:49 PM	71099
Surr: DNOP	81.7	21-129		%Rec	1	10/28/2022 9:22:49 PM	71099
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2022 10:00:00 PM	71084
Surr: BFB	103	37.7-212		%Rec	1	10/28/2022 10:00:00 PM	71084
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/28/2022 10:00:00 PM	71084
Toluene	ND	0.047		mg/Kg	1	10/28/2022 10:00:00 PM	71084
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2022 10:00:00 PM	71084
Xylenes, Total	ND	0.094		mg/Kg	1	10/28/2022 10:00:00 PM	71084
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	10/28/2022 10:00:00 PM	71084

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210C52**

02-Nov-22

Client: EOG

Project: Inex 3

Sample ID: **LCS-71186**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **71186**	RunNo: **92227**
Prep Date: **10/31/2022**	Analysis Date: **10/31/2022**	SeqNo: **3312379** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210C52**

02-Nov-22

Client: EOG

Project: Inex 3

Sample ID: **LCS-71099**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **71099**	RunNo: **92135**
Prep Date: **10/26/2022**	Analysis Date: **10/27/2022**	SeqNo: **3307451** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.6	64.4	127			
Surr: DNOP	4.9		5.000		98.8	21	129			

Sample ID: **MB-71099**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **71099**	RunNo: **92135**
Prep Date: **10/26/2022**	Analysis Date: **10/27/2022**	SeqNo: **3307453** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.5	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210C52**

02-Nov-22

Client: EOG

Project: Inex 3

Sample ID: **lcs-71084**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71084**	RunNo: **92196**
Prep Date: **10/26/2022**	Analysis Date: **10/28/2022**	SeqNo: **3310373** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	72.3	137			
Surr: BFB	2200		1000		216	37.7	212			S

Sample ID: **mb-71084**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71084**	RunNo: **92196**
Prep Date: **10/26/2022**	Analysis Date: **10/28/2022**	SeqNo: **3310374** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.5	37.7	212			

Sample ID: **lcs-71125**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **71125**	RunNo: **92196**
Prep Date: **10/27/2022**	Analysis Date: **10/29/2022**	SeqNo: **3310421** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		221	37.7	212			S

Sample ID: **mb-71125**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **71125**	RunNo: **92196**
Prep Date: **10/27/2022**	Analysis Date: **10/29/2022**	SeqNo: **3310422** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210C52**

02-Nov-22

Client: EOG

Project: Inex 3

Sample ID: **lcs-71084**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71084**	RunNo: **92196**
Prep Date: **10/26/2022**	Analysis Date: **10/28/2022**	SeqNo: **3310523** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	118	80	120			
Toluene	1.2	0.050	1.000	0	118	80	120			
Ethylbenzene	1.2	0.050	1.000	0	116	80	120			
Xylenes, Total	3.5	0.10	3.000	0	116	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	70	130			

Sample ID: **mb-71084**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71084**	RunNo: **92196**
Prep Date: **10/26/2022**	Analysis Date: **10/28/2022**	SeqNo: **3310524** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: **lcs-71125**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **71125**	RunNo: **92196**
Prep Date: **10/27/2022**	Analysis Date: **10/29/2022**	SeqNo: **3310571** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		121	70	130			

Sample ID: **mb-71125**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **71125**	RunNo: **92196**
Prep Date: **10/27/2022**	Analysis Date: **10/29/2022**	SeqNo: **3310572** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		120	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.
B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG Work Order Number: 2210C52 RcptNo: 1

Received By: Juan Rojas 10/26/2022 7:10:00 AM

Completed By: Sean Livingston 10/26/2022 7:50:06 AM

Reviewed By: JR 10/26/22

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

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

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

Adjusted? _____

Checked by: KPA 10.26.22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good				

Chain-of-Custody Record

Client: Artesia EOG / Ranger Env

Mailing Address: On file

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: EOG 5 DAY TAT
☑ Standard ☑ Rush

Project Name: Inex #3

Project #: 5375

Project Manager: W. Kierdorf

Sampler:

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.1-0.1=3.3 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2210652	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10-24-22	1130	soil	NE-3-B(B)@6	(1)402 jar	ICE	001	X	X					X			
	1214		NE-3-B(B)@13			002										
	~~1400~~ 1415		ESE-1(B)@12'			003										
	~~1416~~ 1440		ESE-1(B)@14			004										
	~~1440~~ 1445		E-1-D(B)@8'			005										
	~~1448~~ 1500		E-1-D(B)@10			006										
	~~1502~~ 1520		ESE-2-A(A) 10			007										
	1530		ESE-2-A(A) 13			008										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10-25-22	0821	J. Martinez			10/25/22	821
10/25/22	1900				10/26/22	7:10

Remarks:

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

ATTACHMENT 3

NMOCD Correspondence

Will Kierdorf <will@rangerenv.com> Sep 23, 2022, 4:15 PM (12 days ago)
to Mike,, Adam, JesseK.Tremaine, Eric,, Katie, Chase, Carolyn, Patrick

Mr. Bratcher,

On behalf of EOG Resources, Inc., please let this email serve as notification that site assessment soil sampling activities are to be conducted at the subject site beginning on Wednesday September 28, 2022 at 7 AM.

Inex #3
nAPP2110635348
A-26-T18S-R26E
Eddy County, NM

If you have any questions please feel free to contact me.

Thank you,

--
Will Kierdorf, REM
Project Manager
Ranger Environmental Services, Inc.
P.O. Box 201179
Austin, TX 78720
Phone: 512-335-1785
Fax: 512-335-0527

Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov> Fri, Sep 23, 4:32 PM (12 days ago)
to Jesse,, me, Adam, Eric,, Katie, Chase, Carolyn, Patrick

Will,

Notification received. Please include a copy of all notifications in the closure report to insure inclusion in the project file. Please proceed on your schedule.

Thank you,

Mike Bratcher • Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
http://www.emnrd.state.nm.us/OCD/

Will Kierdorf <will@rangerenv.com> Tue, Oct 4, 4:34 PM (15 hours ago)
to Michael,, Adam, Jesse,, Eric,, Katie, Chase, Carolyn, Patrick

Mr. Bratcher,

As you are aware, assessment soil sampling activities were completed at the Inex #3 (nAPP2110635348) site this past Wednesday (September 28, 2022). Due to a concentration of a soil sample collected at depth in ore of the completed assessment boring locations, additional assessment is potentially necessary to adequately delineate elevated concentrations at the location. Upon discussion with the drilling contractor, the task can be completed tomorrow morning as they have last minute availability. Samples collected during the activities will be utilized as assessment/delineation information for the subject incident.

Please let this email serve as notice that the activities will be completed starting tomorrow October 5th at 10 AM.

Inex #3
nAPP2110635348
A-26-T18S-R26E
Eddy County, NM

If you have any questions or would like any additional information please do not hesitate to contact me.

Thank you,

Bratcher, Michael, EMNRD Oct 4, 2022, 4:40 PM (15 hours ago)
to me, Adam, Jesse,, Eric,, Katie, Chase, Carolyn, Patrick

Will,

Thank you for the notice. Please proceed on your schedule.

Thank you,

Mike Bratcher • Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
http://www.emnrd.state.nm.us/OCD/

Sampling Notification - Inex #3 (nAPP2110635348)

External Inbox ×

Will Kierdorf <will@rangerenv.com> Wed, Oct 19, 3:23 PM (22 hours ago)
to Michael,, Adam, Carolyn, Chase, Eric,, Jesse,, Katie, Patrick

Mr. Bratcher,

On behalf of EOG Resources, Inc., please let this email serve as notification that site assessment soil sampling activities are to be conducted at the subject site beginning on Monday October 24, 2022 at 7 AM.

Inex #3
nAPP2110635348
A-26-T18S-R26E
Eddy County, NM

If you have any questions please feel free to contact me.

Thank you,

—
Will Kierdorf, REM
Project Manager
Ranger Environmental Services, Inc.
P.O. Box 201179
Austin, TX 78720
Phone: 512-335-1785
Fax: 512-335-0527

Bratcher, Michael, EMNRD 2:18 PM (0 minutes ago)
to me, Adam, Carolyn, Chase, Eric,, Jesse,, Katie, Patrick

Mr. Kierdorf,

Thank you for the notification. Please proceed on your schedule.

Mike Bratcher • Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov *NOTE NEW EMAIL ADDRESS*
http://www.emnrd.state.nm.us/OCD/

ATTACHMENT 4

SOIL BORING LOGS

Ranger Environmental Services, LLC
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

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À !!" #Ā$% Keith Copeland ,+" , ." #Ā$% Patrick Finn

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!0 / Ā &#" (-*"/ 32.72404°, -104.345940°

DEPTH (ft)	SOIL SAMPLE ANALYSIS	FIELD CHLORIDE READING (In ppm)	PID (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Type: 2" Diameter PVC
		2,475	1		(ML) Silt, buff to tan, minor caliche inclusions	
5		3,750	1			Riser
10		>3,750	0			
15	GB	>3,750	0		Minor evaporites at 15'-17'	
20		3,750	0	20.0		Temporary Well Screen
					(CL) Clay, light brown, blocky, firm, damp, friable, poor recovery from 20'-22'	
25		600	0		Minor hard caliche inclusions at 26'-26.5" & 27'-27.7'	
30	GB	600	0			
	GB	275	0	31.5 32.0	Caliche, buff, hard, dry	

Bottom of borehole at 32.0 feet.

Note: Well was gauged on three occasions between 09/30/2022 and 10/05/2022 and was found to be dry. As such, the well was plugged and abandoned on 10/05/2022.

ENVIRONMENTAL BH - GINT STD US.GDT - 11/8/22 15:22 - R:\DRAFTING FILES\GINT LOGS\5375 - INEX #3 - BORING LOGS.GPJ

Ranger Environmental Services, LLC
P.O. Box 201179,
Austin, Texas 78720
Phone: (512)335-1785
Fax: (512)335-0527

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,Ā '"(* EOG Resources, Inc.

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0& L", *Ā 1) $"& 5375

0& L", *Ā , -*' (Eddy County, New Mexico

#- *"Ā*- &*"# 9/28/22 ,) 0Ā"*"# 10/5/22

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#&'ÀĀ'(! Ā, (*&-, * & HCl

-*Ā*) "Ā 5Ā#&'ÀĀ'(! --- Dry

#&'ÀĀ'(! Ā)"*+ # Air Rotary

-5*"&Ā#&'ÀĀ'(! --- Dry

À!!" #Ā$% Keith Copeland ,+" ,." #Ā$% Patrick Finn

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!" Ā6Ā 79E7FGĀ= D; 87

!0 / Ā &#" (-*"/ 32.724088°, -104.346008°

DEPTH (ft)	SOIL SAMPLE ANALYSIS	FIELD CHLORIDE READING (In ppm)	PID (In ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0						Casing Type: 2" Diameter PVC
		>3,750	0		(ML) Silt, light brown, minor buff caliche inclusions common	
5		>3,750	0			Riser
10		>3,750	0		Minor evaporites from 10'-17'	
15		>3,750	0			
20	GB	>3,750	0			
					20.0 (ML) Silt, tan, minor buff, caliche inclusions, clayey	Temporary Well Screen
					23.0 (CL) Clay, gray, plastic, damp	
25		2,400	0		25.0 (CL) Clay, red, silty, minor buff caliche inclusions	
30	GB	1,650	0			
					31.0	
	GB	750	0		32.0 (CL) Clay, light brown, firm, damp	
	GB	300	0		33.0 Caliche, white, firm, dry	

Bottom of borehole at 33.0 feet.

Note: Well was gauged on three occasions between 09/30/2022 and 10/05/2022 and was found to be dry. As such, the well was plugged and abandoned on 10/05/2022.

ENVIRONMENTAL BH - GINT STD US.GDT - 11/8/22 15:22 - R:\DRAFTING FILES\GINT LOGS\5375 - INEX #3 - BORING LOGS.GPJ

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2110635348
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

Variance requested per 19.15.29.14 NMAC to allow use of a liner as part of the Remediation Plan

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

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

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

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

Signature: Chase Settle Date: 11/17/2022

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

OCD Only

Received by: Jocelyn Harimon Date: 01/06/2023

- [ ] Approved
- [X] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Robert Hamlet Date: 5/9/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 173347
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The variance for limited soil removal is denied. A liner is approved with the stipulation that as much of the contaminated soil is safely removed as possible. After contaminated soil is removed, back fill excavation to 6' below ground surface with clean material, install liner, backfill to surface with clean material. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.	5/9/2023

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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 297524

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	7377
	Action Number: 297524
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The majority of the BTVs (background threshold values) are less than 600 mg/Kg for chlorides. Also, it appears some of the background soil sample locations were taken in or around a pipeline ROW. The variance for background chloride numbers of 1,751 mg/Kg in the (0'-4' Soils) is not approved. A large portion of the chloride impacted soils are in the (>4'-20' Soils) interval. A variance for background chloride numbers equal to or less than 1,242 mg/Kg in the (>4'-20' Soils) interval is approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples will need to be taken every 200 ft2. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined.	12/26/2023
rhamlet	All areas no longer reasonably needed for production or drilling must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.	12/26/2023