RANGER
ENVIRONMENTAL SERVICES, INC.

SITE CHARACTERIZATION, REMEDIATION & CLOSURE REPORT

MCBRIDE BEH STATE COM #1
UNIT E, SECTION 4, TOWNSHIP 10S, RANGE 34E
LEA COUNTY, NEW MEXICO
33.477691, -103.476338
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

AUGUST 30, 2022

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

William Kierdorf, REM
Project Manager

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1.0 SITE LOCATION AND BACKGROUND

The McBride BEH State Com #1 is located on state land, approximately 20.9 miles northwest of Tatum within Lea County, New Mexico. The facility is situated in Unit E, Section 4, T10S-R34E at GPS coordinates 33.477691, -103.476338. The well was operated by EOG Resources, Inc. (EOG) prior to the plugging and abandonment of the well.

On September 7, 2017, a release was discovered originating from a hole on the bottom of one of the tanks located at the Site. Approximately 23 barrels of crude oil was estimated to have been released. All released fluids were confined within the tank battery bermed/containment area. The incident was reported to the New Mexico Oil Conservation Division (NMOCD) on September 22, 2017 (NMOCD Incident 1RP-4827). Initial response efforts included the dispatching of an emergency vacuum truck; however, upon arrival no fluids were available for recovery. Initial soil removal operations were then completed within the impacted area.

On November 7, 2017, an EOG-prepared *Characterization Plan* was submitted to the NMOCD which included details of the release and proposed assessment actions. On March 27, 2018, a *Remediation Work Plan* was prepared and submitted to the NMOCD to address the impacts at the Site. The initial response from the NMOCD regarding the proposed remedial plan requested that additional assessment activities and review of the site characterization details be conducted.

On July 26, 2018, the NMOCD approved the remedial strategy as presented by EOG, with conditions of modified site ranking and RRALs. In December 2018, representatives for EOG conducted additional assessment, removal and sampling activities at the Site; however, proper documentation of the completed activities and a closure request were not completed and submitted to the NMOCD.

In June 2021, EOG engaged Ranger Environmental Services, LLC (Ranger) to assist in the outstanding assessment and remediation of the Site. Site assessment operations were subsequently conducted in June 2021 and May 2022. This report has been prepared to provide full site characterization information and details of the completed site assessment and remediation activities.

A copy of the previously submitted Form C-141 Release Notification is attached. Additionally, current versions of the Site Assessment/Characterization and Closure sections of Form C-141 are attached. A *Topographic Map* and *Area Map* noting the location of the subject Site and surrounding areas, and site maps illustrating the Site features and sampling locations, are provided in the Figures section.

2.0 SITE CHARACTERIZATION

2.1 Depth to Groundwater

To determine the depth to groundwater in the vicinity of the Site, data available from the U.S. Geological Survey (USGS) and the New Mexico Office of the State Engineer (NMOSE) was initially reviewed. The area was lacking acceptable depth-to-groundwater data (<25 years old depth to groundwater data within a one-half mile radius of the subject site). However, based on the data that was available from the USGS and NMOSE, the depth-to-groundwater was believed to be greater than 50 feet below ground surface (bgs).

To confirm the depth-to-groundwater, a soil boring/temporary monitor well ("SB-1") was installed and gauged at the Site in May 2022. On May 12, 2022, representatives for GHD and HCI Drilling installed SB-1 to a depth of 56 feet bgs at approximate GPS coordinates 33.477517, -103.476150. The well was drilled utilizing air rotary drilling techniques and was completed with two-inch diameter PVC casing with a ten-foot screened interval. The temporary monitor well was allowed to equilibrate for four days and was then gauged with a Solinst water level meter on May 16, 2022. The temporary monitor well was found to be dry, thus confirming that the area depth-to-groundwater is greater than 56 feet bgs. Upon completion of the well gauging activities, the temporary monitor well was properly plugged and abandoned.

Based upon the GHD depth-to-groundwater investigation results and the reviewed NMOSE depth-to-groundwater data, the depth-to-groundwater in the area of the Site was confirmed to be greater than 56 feet bgs.

A copy of the SB-1 boring log is attached, and the attached *Soil Boring/Temp Well Location Map* illustrates the location of temporary monitor well SB-1.

2.2 Wellhead Protection Area

Based upon the USGS and NMOSE information, no known water sources were identified within a half-mile of the Site.

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

The Site and impacted area are outside of the FEMA 100-year flood plain and fall in the area of minimal flood hazard.

The Site area is in an area of "Low Karst" probability.

2.3 Distance to Nearest Significant Watercourse

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

2.4 Closure Criteria

Based upon the site characterization details, the Site has been remediated to Table 1 19.15.29.12 NMAC (groundwater 51'-100' feet) criteria. Additionally, remediation activities were completed to bring the surface to four-foot depth interval into compliance with the Restoration, Reclamation and Re-Vegetation criteria detailed in 19.15.29.13 NMAC. The closure criteria are detailed below:

PROPOSED CLOSURE CRITERIA

REGULATORY STANDARD	CHLORIDE	TPH (GRO+DRO +MRO)	TPH (GRO+DRO)	BTEX	BENZENE
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW 51' to 100')	10,000	2,500	1,000	50	10
19.15.29.13 NMAC Restoration, Reclamation and Re-Vegetation (Soils 0'-4')	600	100[1]	---	50[1]	10[1]

All Values Presented in Parts Per Million (mg/Kg)

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

3.0 SITE ASSESSMENT

3.1 June 22 & 23, 2021 Site Assessment and Sampling Results

On June 22 and 23, 2021, Ranger personnel mobilized to the Site to conduct a review of the impact/excavation area. Upon arrival, Ranger inspected and documented the extent of the excavation area. The excavated area was noted to have dimensions of approximately 27 feet by 14 feet and was completed to a maximum depth of approximately six (6) feet bgs. Ranger also confirmed that all materials excavated as part of the initial response activities had been removed from the Site and transported to disposal.

During the inspection process, Ranger personnel field screened the soils from various locations in the excavated area using an organic vapor monitor (OVM) and a field chloride titration kit. The field OVM readings indicated that hydrocarbon impacted soils were still present in the eastern excavation base area. The field chloride readings indicated that soil chloride concentrations were below the most stringent Table 1 Criteria.

Based on the conditions observed within the impact/excavation area, it was determined that additional assessment and delineation efforts were warranted. Utilizing earth moving equipment (backhoe), two test holes were completed in the base of the excavation in an attempt to vertically delineate the observed impacts. Additionally, test excavation trenches were completed in the excavation sidewalls in each cardinal direction to assist in the horizontal delineation of the soil impacts.

During the assessment process, Ranger personnel once again conducted field screening of the encountered soils utilizing an OVM and field chloride titration kit. Soil samples for laboratory analysis were subsequently collected from each completed test excavation location. The soil samples were submitted to Hall Environmental Laboratory, Inc. in Albuquerque, New Mexico for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021; and, total chloride using EPA Method 300. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Upon review of the laboratory analytical results for the samples collected on June 22 and 23, 2021, elevated TPH and BTEX concentrations were documented in the samples collected from the test excavation completed in the eastern excavation base ("E Base"). Samples *E Base/ 6'* and *E Base/ 9'* were found to exceed the proposed closure criteria. All other sample results were documented to contain BTEX, TPH and chloride concentrations below the proposed closure criteria, including the 10'-deep sample (*E Base/ 10'*) collected immediately beneath the *E Base/ 9'* sample.

The soil sample analytical results are summarized in the attached soil analytical table. A copy of the laboratory analytical report is also attached.

4.0 SITE REMEDIATION

4.1 Impacted Soil Excavation

In order to address the impacts at the Site and bring the location into compliance with NMAC 19.15.29, soil removal operations were conducted in August 2022. Based on the information collected during the June 2021 assessment activities, the removal operation was completed in two depth areas of approximately six (6) and ten (10) feet bgs. Upon completion, the excavated area was primarily rectangular in shape and had maximum dimensions of approximately 21 feet wide by 28 feet long. The excavated area is depicted in the attached *Final Confirmation Sample Location Map*.

4.2 Confirmation Sampling

To assess the excavated area and confirm that soil removal had been completed to appropriate boundaries, on August 15, 2022, confirmation soil samples were collected as five-part composite samples in accordance with NMAC 19.15.29.12 with each sample representing less than 200 square feet. The cleanup confirmation soil samples were placed into laboratory-supplied containers and were immediately placed into a sample shuttle containing ice. The samples were collected and managed using standard QA/QC and chain-of-custody procedures.

Following collection, the soil samples were submitted to Hall Environmental in Albuquerque, New Mexico for analysis of TPH, BTEX, and chloride using the aforementioned laboratory methods.

Upon review of the laboratory analytical results for the samples collected on August 15, 2022, all samples were documented to be below the applicable 19.15.29.12 Table 1 Criteria.

4.3 Excavation Backfill

Upon attainment of the proposed closure criteria, the excavated area was backfilled with clean fill material in accordance with NMAC 19.15.29.13.

Re-vegetation efforts at the Site will be completed in conjunction with the remaining decommissioning and reclamation efforts at the former well pad location.

4.4 Waste Disposal

All soils generated during the remedial excavation activities were transported and disposed of at the Gandy Marley, Inc. disposal facility in Chaves County, New Mexico.

5.0 SITE CLOSURE

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

FORM C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	OGRID Number	Contact
EOG Y Resources, Inc.	25575	Robert Asher
Address		Telephone No.
104 S. 4th Street		575-748-1471
Facility Name		Facility Type
McBride BEH State Com #1		Battery

Surface Owner	Mineral Owner	API No.
State	State	30-025-37107

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	4	10S	34E	1980	North	660	West	Lea

Latitude 32.47756 **Longitude** 103.47538

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Crude Oil	23 B/O	0 B/O
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Production Tank	9/7/2017; PM	9/7/2017; PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Hole discovered in tank bottom, causing the release. Tank removed.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 20'X 20'. The well and valves were closed. The impacted soils under removed tank were excavated and placed on bermed plastic, if applicable in-place remediation will be conducted. Vertical and horizontal delineation samples will be collected and analysis ran for TPH & BTEX. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: <50' (approximately 36', per USGS Groundwater Levels), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 20.**

RECEIVED
By Olivia Yu at 9:07 am, Sep 27, 2017

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:

Printed Name: Robert Asher

Title: Environmental Supervisor

E-mail Address: Robert_Asher@eogresources.com

Date: September 22, 2017 Phone: 575-748-4217

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 9/27/2017 Expiration Date:

Conditions of Approval:
see attached directive

Attached ☑

* Attach Additional Sheets If Necessary

1RP-4827 nOY1727033052 pOY1727033242

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _9/25/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4827__ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _10/27/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

● Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

● Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

● Nominal detection limits for field and laboratory analyses must be provided.

● Composite sampling is not generally allowed.

● Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

●Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

● If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

● Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727033052
District RP	1RP-4827
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?	>56’ (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727033052
District RP	1RP-4827
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: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 08/30/2022

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nOY1727033052
District RP	1RP-4827
Facility ID	
Application ID	

Closure

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

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

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

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

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

☒ Description of remediation activities

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

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

Signature: Chase Settle Date: 08/30/2022

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

OCD Only

Received by: OCD Date: 8/30/2022

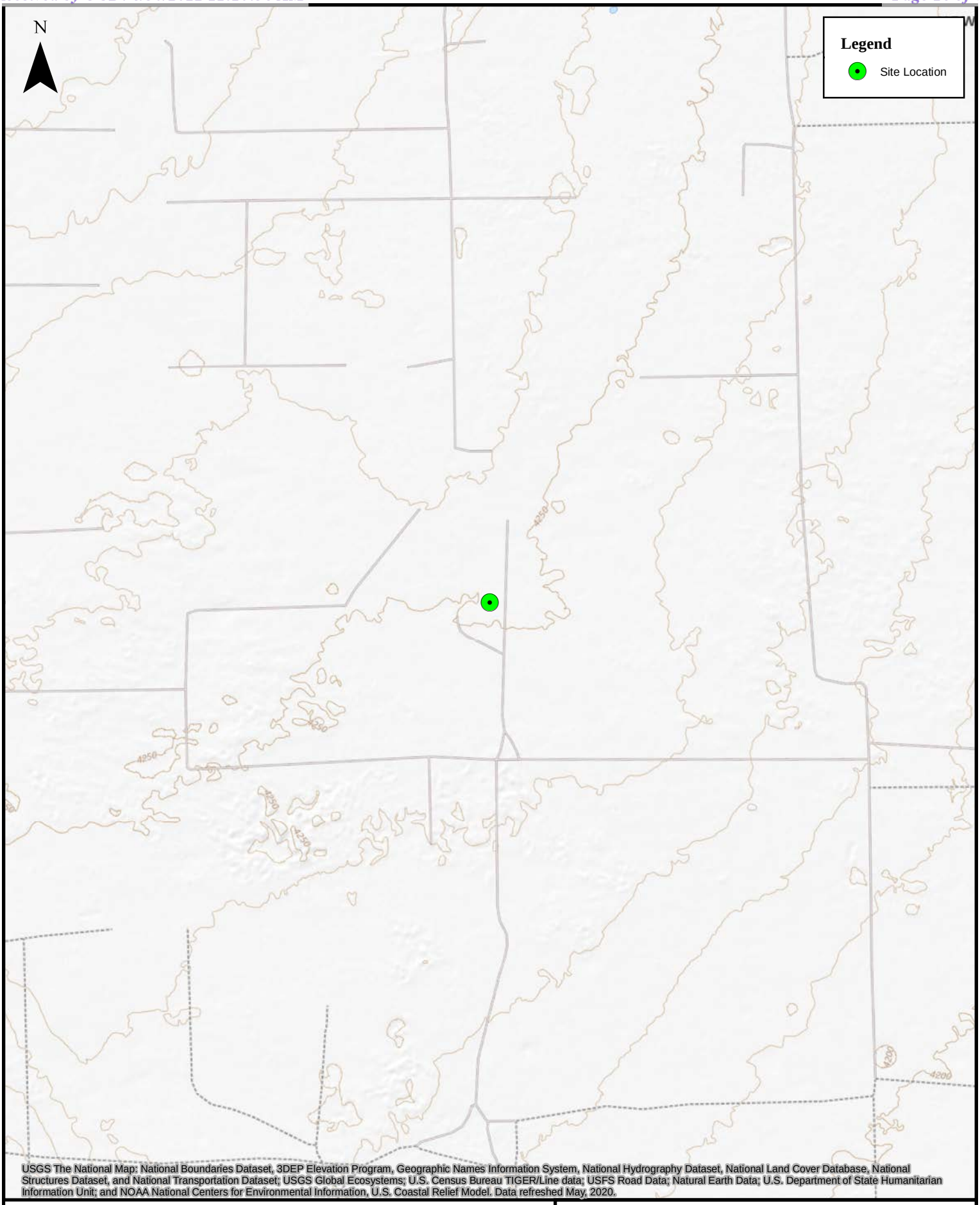
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: Ashley Maxwell Date: 10/11/2022

Printed Name: Ashley Maxwell Title: Environmental Specialist

FIGURES

Topographic Map
Area Map
National Wetland Inventory Map
Karst Topography Map
Soil Boring/Temp Well Location Map
Assessment Sampling Location Map
Final Confirmation Sample Location Map

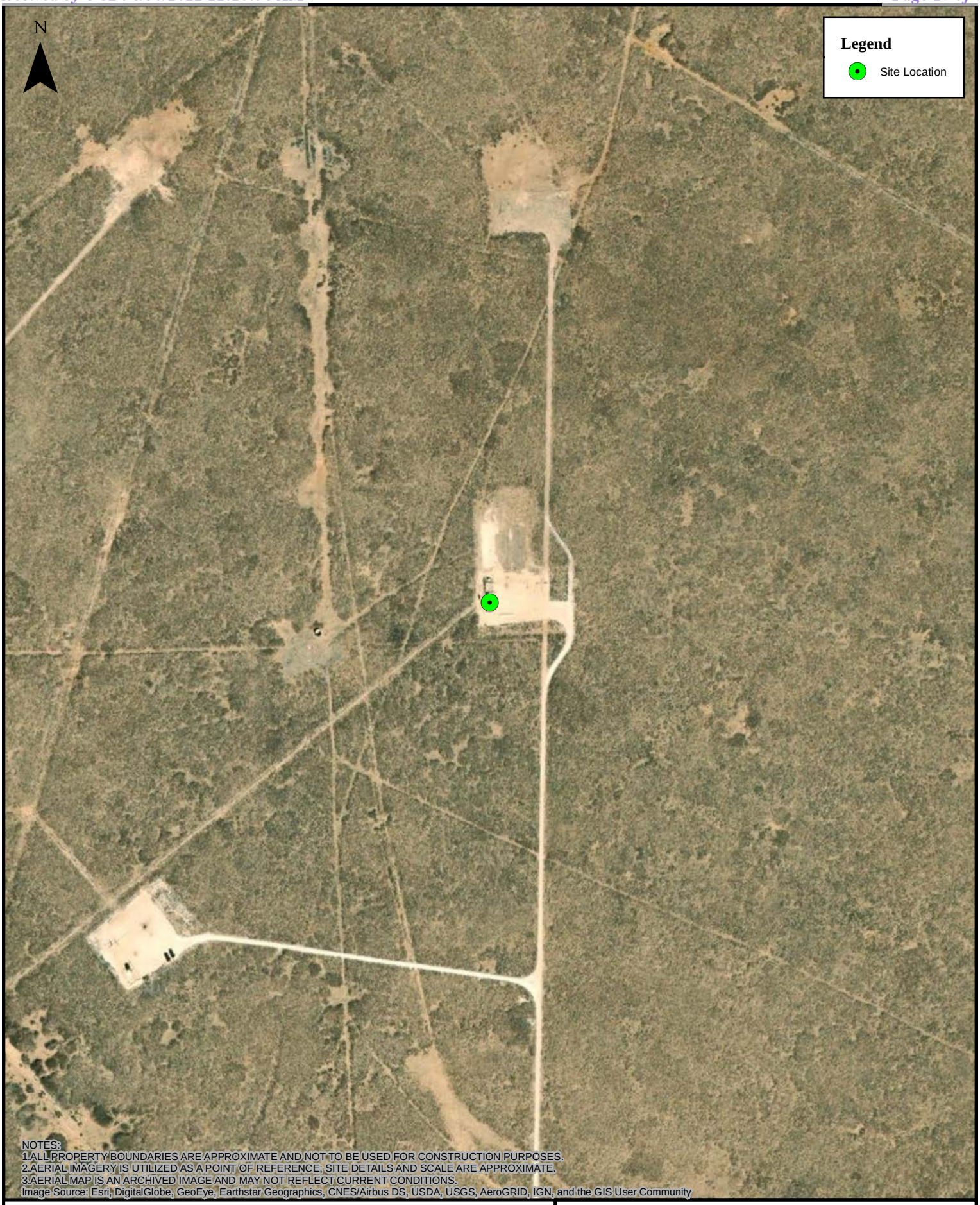


RANGER ENVIRONMENTAL SERVICES, INC.

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

1:24,000

Topographic Map
McBride BEH State Com #1
EOG Resources, Inc.

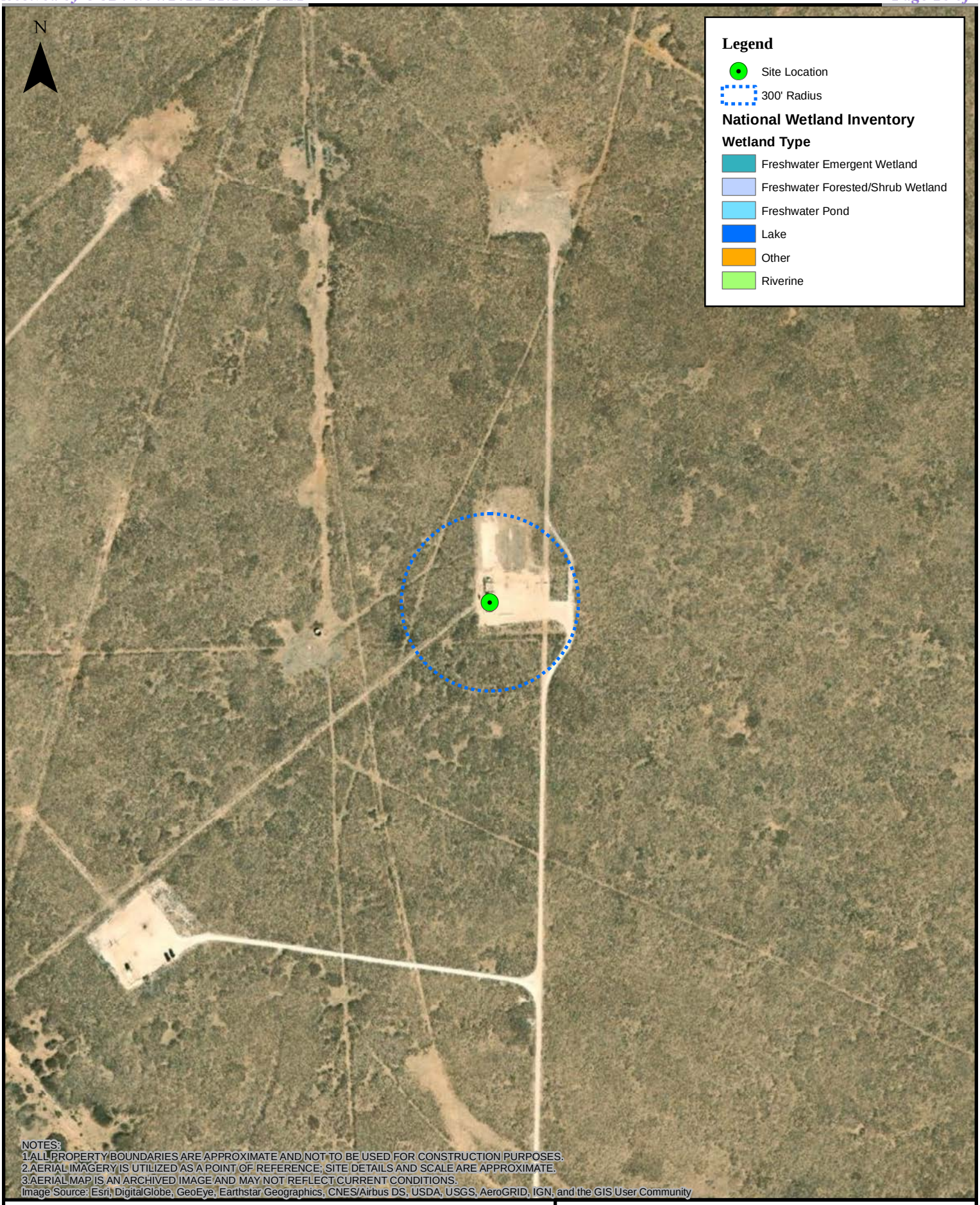


RANGER ENVIRONMENTAL SERVICES, INC.

0 125 250 500 750 1,000 Feet

1:5,000

Area Map
McBride BEH State Com #1
EOG Resources, Inc.

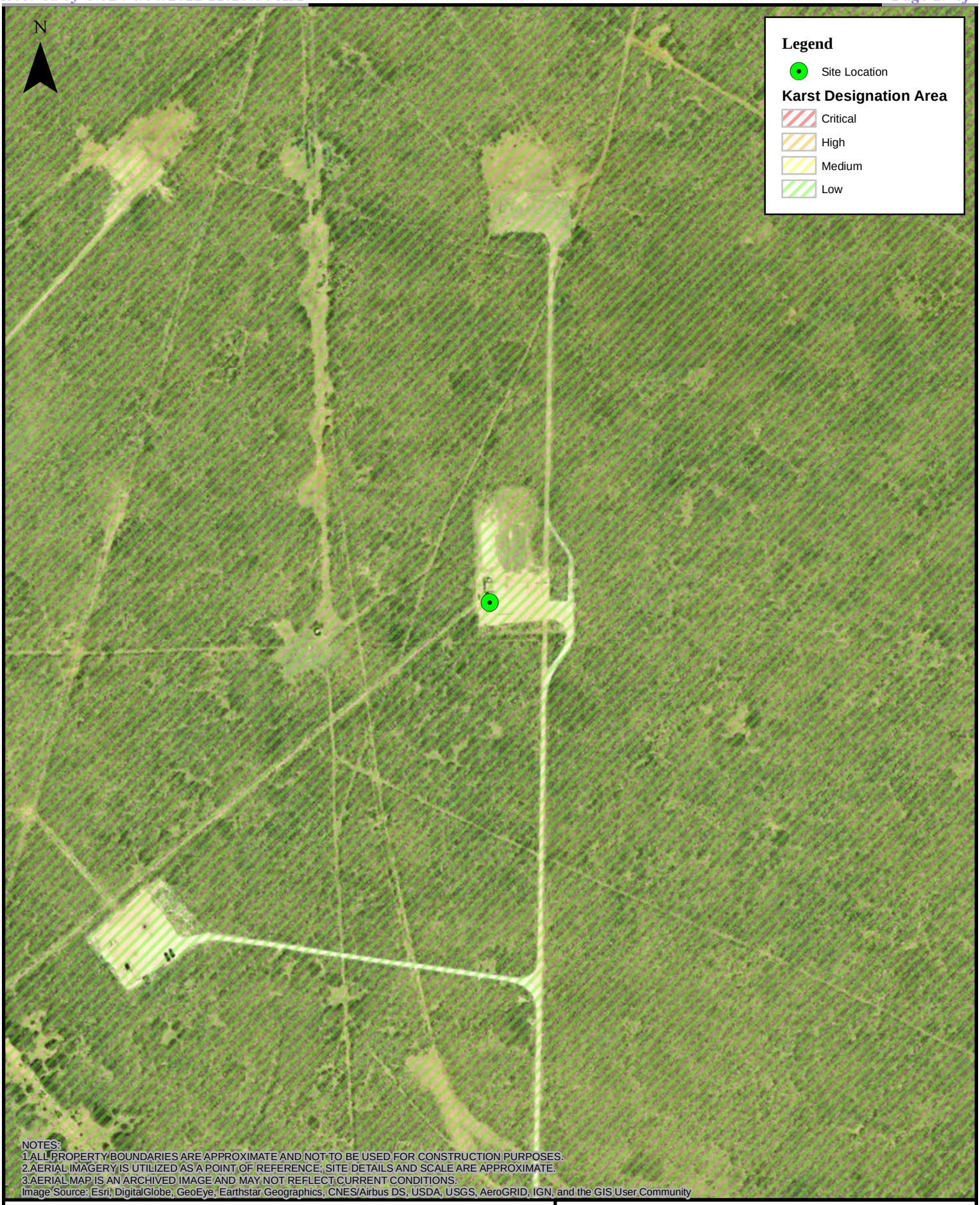


RANGER ENVIRONMENTAL SERVICES, INC.

0 125 250 500 750 1,000 Feet

1:5,000

National Wetland Inventory Map
McBride BEH State Com #1
EOG Resources, Inc.



RANGER ENVIRONMENTAL SERVICES, INC.

0 125 250 500 750 1,000 Feet

1:5,000

Karst Topography Map
McBride BEH State Com #1
EOG Resources, Inc.

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

RANGER ENVIRONMENTAL SERVICES, INC.

0 5 10 20 30 40 Feet

1:260

Soil Boring/Temp Well Location Map
McBride BEH State Com #1
EOG Resources, Inc.

NOTES:
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2.AERIAL IMAGERY IS UTILIZED AS A POINT OF REFERENCE; SITE DETAILS AND SCALE ARE APPROXIMATE.
3.AERIAL MAP IS AN ARCHIVED IMAGE AND MAY NOT REFLECT CURRENT CONDITIONS.
Image Source: Google Earth (Date: 12/2019)

RANGER ENVIRONMENTAL SERVICES, INC.

0 2.25 4.5 9 13.5 18 Feet

1:100

Assessment Sample Location Map
McBride BEH State Com #1
EOG Resources, Inc.

N

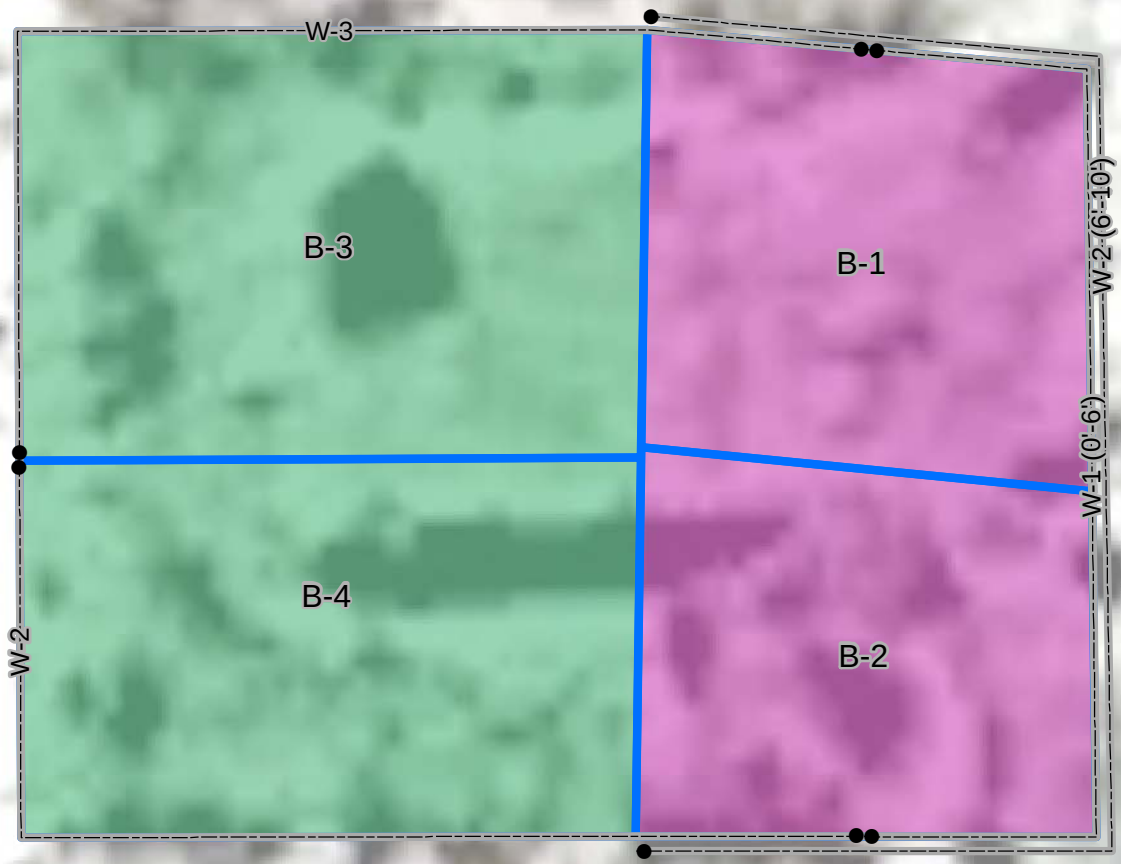
* Confrimation Sample areas B-1 and B-2 included the interior excavation wall between the ~6' deep and ~10' deep excavation areas.

Legend

- Excavation Side Wall Sample Area
- Excavation Base Sample Area

Excavation Area

- ~10' Deep
- ~6' Deep



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

RANGER ENVIRONMENTAL SERVICES, INC.

0 1.25 2.5 5 7.5 10 Feet

1:60

Final Confirmaiton Sample Location Map
McBride BEH State Com #1
EOG Resources, Inc.

TABLES

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

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

SITE ASSESSMENT SOIL BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
MCBRIDE BEH STATE COM 1
LEA 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 Base/ 6'	6/22/2021	6'	<0.12	<0.24	0.25	<0.49	0.25	170	890	<50	**1,060**	1,060	<60
E Base/ 8'	6/22/2021	8'	<0.12	<0.25	<0.25	<0.49	<1.11	36	29	<43	65	65	<60
E Base/ 9'	6/22/2021	9'	<0.47	11	16	140	**167**	2,800	2,700	<900	**5,500**	**5,500**	<60
E Base/ 10'	6/22/2021	10'	<0.12	0.93	1.2	14	16.13	340	84	<41	424	424	<60
W Base/ 6'	6/22/2021	6'	<0.12	<0.24	<0.24	<0.48	<1.08	<24	83	<48	83	83	<60
N Wall/ 2'	6/23/2021	2'	<0.024	<0.049	<0.049	<0.097	<0.22	<4.9	<9.9	<49	<14.8	<63.8	<60
N Wall/ 5'	6/23/2021	5'	<0.025	<0.049	<0.049	<0.098	<0.22	<4.9	<9.7	<48	<14.6	<62.6	<60
S Wall/ 2'	6/23/2021	2'	<0.025	<0.049	<0.049	<0.098	<0.22	<4.9	<9.5	<47	<14.4	<61.4	<60
S Wall/ 5'	6/23/2021	5'	<0.023	<0.047	<0.047	<0.094	<0.21	<4.7	<9.7	<49	<14.4	<63.4	<60
W Wall/ 2'	6/23/2021	2'	<0.024	<0.049	<0.049	<0.098	<0.22	<4.9	<9.1	<45	<14	<59	<60
W Wall/ 5'	6/23/2021	5'	<0.024	<0.048	<0.048	<0.095	<0.22	<4.8	<9.1	<45	<13.9	<58.9	<60
E Wall/ 2'	6/23/2021	2'	<0.023	<0.046	<0.046	<0.092	<0.21	<4.6	<9.5	<47	<14.1	<61.1	<60
E Wall/ 5'	6/23/2021	5'	<0.024	<0.047	<0.047	<0.095	<0.21	<4.7	<8.9	<45	<13.6	<58.6	<60
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW 51'-100')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**1,000**	**2,500**	**10,000**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10[3]**				**50[3]**					**100[3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document *Procedures for the Implementation of the Spill Rule* (19.15.29 NMAC) dated September 6, 2019.
4. NA - Not Analyzed

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

CONFIRMATION SOIL SAMPLE BTEX (EPA 8260), TPH (EPA 8015) & CHLORIDE (EPA 300) ANALYTICAL DATA
MCBRIDE BEH STATE COM 1
LEA 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-1	8/15/2022	6'-10'	<0.12	<0.24	<0.24	<0.48	<0.48	<24	140	<50	140	140	<60
B-2	8/15/2022	6'-10'	<0.12	<0.23	<0.23	<0.46	<0.46	<23	170	<50	170	170	<60
B-3	8/15/2022	6'	<0.025	<0.050	<0.050	<0.099	<0.10	9.8	73	<49	82.8	82.8	<59
B-4	8/15/2022	6'	<0.12	<0.25	<0.25	<0.49	<0.49	<25	130	<48	130	130	<60
W-1	8/15/2022	0'-6'	<0.024	<0.047	<0.047	<0.094	<0.09	<4.7	<15	<49	<15	<49	75
W-2	8/15/2022	6'-10'	<0.025	<0.049	<0.049	<0.098	<0.10	<4.9	28	<49	28	28	<61
W-3	8/15/2022	0'-6'	<0.025	<0.050	<0.050	<0.099	<0.10	<5.0	<14	<47	<14	<47	<60
W-4	8/15/2022	0'-6'	<0.024	<0.048	<0.048	<0.097	<0.10	<4.8	<14	<48	<14	<48	<60
19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release (GW 51'-100')			**10**	**---**	**---**	**---**	**50**	**---**	**---**	**---**	**1,000**	**2,500**	**10,000**
19.15.29.13 NMAC Reclamation Criteria (0'-4' Soils Only)			**10[3]**				**50[3]**					**100[3]**	**600**

Notes:

1. Results exceeding the Table 1 Closure Criteria are presented in bold type and are highlighted yellow.
2. Results exceeding the NMAC Restoration, Reclamation and re-vegetation chloride concentration requirements are presented in bold red type.
3. Value derived from the State of New Mexico Energy, Minerals and Natural Resources Department document *Procedures for the Implementation of the Spill Rule* (19.15.29 NMAC) dated September 6, 2019.
4. NA - Not Analyzed

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
mg/Kg = Milligrams per Kilogram

ATTACHMENT 1

SOIL BORING/TEMP WELL “SB-1” BORING LOG

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: McBride BEH State Com #1
HOLE DESIGNATION: SB-1
PROJECT NUMBER: 12579881
DATE COMPLETED: 12 May 2022
CLIENT: EOG Resources
DRILLING METHOD: Air Rotary/Split Spoons and Cuttings
LOCATION: Lea County, New Mexico
FIELD PERSONNEL: L. Mullins
DRILLING CONTRACTOR: HCI Drilling
DRILLER: K. Cooper

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE CHLORIDE (mg/kg)
0	SP-SAND, fine to medium grained sand, with consolidated caliche, interbedded throughout, light brown to grey, dry						
5							
10							
15							
20	- fine grained sand, light brown at 18.00ft BGS						
25							
30	CLS-SANDY CLAY, brown to light brown	29.00					
35	SANDSTONE, consolidated, light brown, caliche rock interbedded throughout	35.00					
40							
45	CLS-SANDY CLAY, brown to light brown, dry	43.00					
	BEDROCK, bed of consolidated caliche rock	45.00					
50	CLS-SANDY CLAY, brown to light brown, dry	48.00					
55							
60	END OF BOREHOLE @ 56.00ft BGS	56.00					
65							

7" Ø Borehole

2" Ø Screen

WELL DETAILS
Screened interval:
46.00 to 56.00ft BGS
Length: 10ft
Diameter: 2in

NOTE:
This well was plugged and abandoned on 5/16/22.

NOTES: Temp Well was gauged on May 16, 2022 and no groundwater was detected. Temp well was plugged and abandoned.

File: \\GHDNET\GHD\US\MIDLAND\PROJECTS\562\12579881\TECH\GINT LOGS\12579881 LOGS.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 30/6/22

ATTACHMENT 2

PHOTOGRAPHIC DOCUMENTATION

PHOTOGRAPH NO. 1 – A view of the excavation area during the June 23, 2021 assessment activities. The view is towards the northwest.

(Approximate GPS: 33.477715, --103.476262)

PHOTOGRAPH NO. 2 – A view of the initial site assessment activities in the "E Base" test excavation. The view is towards the east.

(Approximate GPS: 33.477685, -103.476389)

PHOTOGRAPH NO. 3 – A view of the excavation area during the August 15, 2022 confirmation sampling activities. The view is towards the north.

(Approximate GPS: 33.477622, -103.476307)

PHOTOGRAPH NO. 4 – An additional view of the excavation area during the August 15, 2022 confirmation sampling activities. The view is towards the southeast.

(Approximate GPS: 33.477748, -103.476387)

ATTACHEMENT 3 - 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: clients.hallenvironmental.com

July 07, 2021

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

RE: McBride BEH State Com 1 OrderNo.: 2106D72

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/25/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 06, 2021.

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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: E Base/ 6'
Project: McBride BEH State Com 1
Collection Date: 6/22/2021 5:53:00 PM
Lab ID: 2106D72-001 **Matrix:** SOIL
Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	7/1/2021 11:58:51 PM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	890	10		mg/Kg	1	6/29/2021 6:02:50 PM	60966
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/29/2021 6:02:50 PM	60966
Surr: DNOP	83.4	70-130		%Rec	1	6/29/2021 6:02:50 PM	60966
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	170	24		mg/Kg	5	7/2/2021 12:25:00 PM	60962
Surr: BFB	249	70-130	S	%Rec	5	7/2/2021 12:25:00 PM	60962
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.12		mg/Kg	5	7/2/2021 12:25:00 PM	60962
Toluene	ND	0.24		mg/Kg	5	7/2/2021 12:25:00 PM	60962
Ethylbenzene	0.25	0.24		mg/Kg	5	7/2/2021 12:25:00 PM	60962
Xylenes, Total	ND	0.49		mg/Kg	5	7/2/2021 12:25:00 PM	60962
Surr: 4-Bromofluorobenzene	163	70-130	S	%Rec	5	7/2/2021 12:25:00 PM	60962

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** E Base/ 8'
Project: McBride BEH State Com 1 **Collection Date:** 6/22/2021 5:55:00 PM
Lab ID: 2106D72-002 **Matrix:** SOIL **Received Date:** 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	7/2/2021 12:11:15 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	29	8.6		mg/Kg	1	6/29/2021 6:27:07 PM	60966
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/29/2021 6:27:07 PM	60966
Surr: DNOP	82.2	70-130		%Rec	1	6/29/2021 6:27:07 PM	60966
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	36	25		mg/Kg	5	7/2/2021 5:36:00 AM	60962
Surr: BFB	161	70-130	S	%Rec	5	7/2/2021 5:36:00 AM	60962
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.12		mg/Kg	5	7/2/2021 5:36:00 AM	60962
Toluene	ND	0.25		mg/Kg	5	7/2/2021 5:36:00 AM	60962
Ethylbenzene	ND	0.25		mg/Kg	5	7/2/2021 5:36:00 AM	60962
Xylenes, Total	ND	0.49		mg/Kg	5	7/2/2021 5:36:00 AM	60962
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	5	7/2/2021 5:36:00 AM	60962

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: E Base/ 9'
Project: McBride BEH State Com 1
Collection Date: 6/22/2021 5:57:00 PM
Lab ID: 2106D72-003 **Matrix:** SOIL
Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	7/2/2021 12:23:39 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	2700	180		mg/Kg	20	7/1/2021 4:42:08 PM	60966
Motor Oil Range Organics (MRO)	ND	900	D	mg/Kg	20	7/1/2021 4:42:08 PM	60966
Surr: DNOP	66.0	70-130	S	%Rec	20	7/1/2021 4:42:08 PM	60966
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	2800	93		mg/Kg	20	7/2/2021 5:56:00 AM	60962
Surr: BFB	330	70-130	S	%Rec	20	7/2/2021 5:56:00 AM	60962
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.47		mg/Kg	20	7/2/2021 5:56:00 AM	60962
Toluene	11	0.93		mg/Kg	20	7/2/2021 5:56:00 AM	60962
Ethylbenzene	16	0.93		mg/Kg	20	7/2/2021 5:56:00 AM	60962
Xylenes, Total	140	9.3		mg/Kg	100	7/2/2021 1:05:00 PM	60962
Surr: 4-Bromofluorobenzene	152	70-130	S	%Rec	20	7/2/2021 5:56:00 AM	60962

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: E Base/ 10'
Project: McBride BEH State Com 1
Collection Date: 6/22/2021 5:59:00 PM
Lab ID: 2106D72-004 **Matrix:** SOIL
Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	7/2/2021 12:36:04 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**BRM**
Diesel Range Organics (DRO)	84	8.1		mg/Kg	1	6/29/2021 7:15:44 PM	60966
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	6/29/2021 7:15:44 PM	60966
Surr: DNOP	81.5	70-130		%Rec	1	6/29/2021 7:15:44 PM	60966
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	340	25		mg/Kg	5	7/2/2021 7:16:00 AM	60962
Surr: BFB	258	70-130	S	%Rec	5	7/2/2021 7:16:00 AM	60962
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.12		mg/Kg	5	7/2/2021 7:16:00 AM	60962
Toluene	0.93	0.25		mg/Kg	5	7/2/2021 7:16:00 AM	60962
Ethylbenzene	1.2	0.25		mg/Kg	5	7/2/2021 7:16:00 AM	60962
Xylenes, Total	14	0.50		mg/Kg	5	7/2/2021 7:16:00 AM	60962
Surr: 4-Bromofluorobenzene	166	70-130	S	%Rec	5	7/2/2021 7:16:00 AM	60962

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W Base/ 6'
Project: McBride BEH State Com 1
Collection Date: 6/22/2021 6:01:00 PM
Lab ID: 2106D72-005 **Matrix:** SOIL
Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	7/2/2021 1:13:18 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	83	9.5		mg/Kg	1	6/29/2021 7:40:10 PM	60966
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/29/2021 7:40:10 PM	60966
Surr: DNOP	75.9	70-130		%Rec	1	6/29/2021 7:40:10 PM	60966
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	7/2/2021 7:36:00 AM	60962
Surr: BFB	112	70-130		%Rec	5	7/2/2021 7:36:00 AM	60962
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	7/2/2021 7:36:00 AM	60962
Toluene	ND	0.24		mg/Kg	5	7/2/2021 7:36:00 AM	60962
Ethylbenzene	ND	0.24		mg/Kg	5	7/2/2021 7:36:00 AM	60962
Xylenes, Total	ND	0.48		mg/Kg	5	7/2/2021 7:36:00 AM	60962
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	7/2/2021 7:36:00 AM	60962

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** N Wall/ 2'
Project: McBride BEH State Com 1 **Collection Date:** 6/23/2021 7:43:00 AM
Lab ID: 2106D72-006 **Matrix:** SOIL **Received Date:** 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	7/2/2021 1:25:43 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/30/2021 12:48:47 PM	60975
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2021 12:48:47 PM	60975
Surr: DNOP	104	70-130		%Rec	1	6/30/2021 12:48:47 PM	60975
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/1/2021 2:17:27 PM	60972
Surr: BFB	98.8	70-130		%Rec	1	7/1/2021 2:17:27 PM	60972
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/1/2021 2:17:27 PM	60972
Toluene	ND	0.049		mg/Kg	1	7/1/2021 2:17:27 PM	60972
Ethylbenzene	ND	0.049		mg/Kg	1	7/1/2021 2:17:27 PM	60972
Xylenes, Total	ND	0.097		mg/Kg	1	7/1/2021 2:17:27 PM	60972
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	7/1/2021 2:17:27 PM	60972

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: N Wall/ 5'
Project: McBride BEH State Com 1
Collection Date: 6/23/2021 7:45:00 AM
Lab ID: 2106D72-007 **Matrix:** SOIL
Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	7/2/2021 1:38:07 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/30/2021 1:25:10 PM	60975
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/30/2021 1:25:10 PM	60975
Surr: DNOP	95.6	70-130		%Rec	1	6/30/2021 1:25:10 PM	60975
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/1/2021 3:28:26 PM	60972
Surr: BFB	100	70-130		%Rec	1	7/1/2021 3:28:26 PM	60972
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.025		mg/Kg	1	7/1/2021 3:28:26 PM	60972
Toluene	ND	0.049		mg/Kg	1	7/1/2021 3:28:26 PM	60972
Ethylbenzene	ND	0.049		mg/Kg	1	7/1/2021 3:28:26 PM	60972
Xylenes, Total	ND	0.098		mg/Kg	1	7/1/2021 3:28:26 PM	60972
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/1/2021 3:28:26 PM	60972

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S Wall/ 2'
Project: McBride BEH State Com 1 **Collection Date:** 6/23/2021 7:47:00 AM
Lab ID: 2106D72-008 **Matrix:** SOIL **Received Date:** 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	7/2/2021 1:50:31 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/30/2021 1:37:21 PM	60975
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/30/2021 1:37:21 PM	60975
Surr: DNOP	104	70-130		%Rec	1	6/30/2021 1:37:21 PM	60975
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/1/2021 4:39:33 PM	60972
Surr: BFB	100	70-130		%Rec	1	7/1/2021 4:39:33 PM	60972
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/1/2021 4:39:33 PM	60972
Toluene	ND	0.049		mg/Kg	1	7/1/2021 4:39:33 PM	60972
Ethylbenzene	ND	0.049		mg/Kg	1	7/1/2021 4:39:33 PM	60972
Xylenes, Total	ND	0.098		mg/Kg	1	7/1/2021 4:39:33 PM	60972
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/1/2021 4:39:33 PM	60972

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** S Wall/ 5'
Project: McBride BEH State Com 1 **Collection Date:** 6/23/2021 7:49:00 AM
Lab ID: 2106D72-009 **Matrix:** SOIL **Received Date:** 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	7/2/2021 2:02:56 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/30/2021 1:49:32 PM	60975
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/30/2021 1:49:32 PM	60975
Surr: DNOP	98.4	70-130		%Rec	1	6/30/2021 1:49:32 PM	60975
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/1/2021 5:03:13 PM	60972
Surr: BFB	100	70-130		%Rec	1	7/1/2021 5:03:13 PM	60972
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.023		mg/Kg	1	7/1/2021 5:03:13 PM	60972
Toluene	ND	0.047		mg/Kg	1	7/1/2021 5:03:13 PM	60972
Ethylbenzene	ND	0.047		mg/Kg	1	7/1/2021 5:03:13 PM	60972
Xylenes, Total	ND	0.094		mg/Kg	1	7/1/2021 5:03:13 PM	60972
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/1/2021 5:03:13 PM	60972

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W Wall/ 2'
Project: McBride BEH State Com 1
Collection Date: 6/23/2021 7:51:00 AM
Lab ID: 2106D72-010 **Matrix:** SOIL
Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	7/2/2021 2:15:20 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/30/2021 2:01:38 PM	60975
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/30/2021 2:01:38 PM	60975
Surr: DNOP	111	70-130		%Rec	1	6/30/2021 2:01:38 PM	60975
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/1/2021 6:37:52 PM	60972
Surr: BFB	98.2	70-130		%Rec	1	7/1/2021 6:37:52 PM	60972
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	7/1/2021 6:37:52 PM	60972
Toluene	ND	0.049		mg/Kg	1	7/1/2021 6:37:52 PM	60972
Ethylbenzene	ND	0.049		mg/Kg	1	7/1/2021 6:37:52 PM	60972
Xylenes, Total	ND	0.098		mg/Kg	1	7/1/2021 6:37:52 PM	60972
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	7/1/2021 6:37:52 PM	60972

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W Wall/ 5'
Project: McBride BEH State Com 1
Collection Date: 6/23/2021 7:53:00 AM
Lab ID: 2106D72-011 **Matrix:** SOIL
Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	7/2/2021 2:27:44 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/30/2021 2:13:44 PM	60975
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/30/2021 2:13:44 PM	60975
Surr: DNOP	97.6	70-130		%Rec	1	6/30/2021 2:13:44 PM	60975
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/1/2021 7:01:32 PM	60972
Surr: BFB	100	70-130		%Rec	1	7/1/2021 7:01:32 PM	60972
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	7/1/2021 7:01:32 PM	60972
Toluene	ND	0.048		mg/Kg	1	7/1/2021 7:01:32 PM	60972
Ethylbenzene	ND	0.048		mg/Kg	1	7/1/2021 7:01:32 PM	60972
Xylenes, Total	ND	0.095		mg/Kg	1	7/1/2021 7:01:32 PM	60972
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/1/2021 7:01:32 PM	60972

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

Qualifiers:

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

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** E Wall/ 2'
Project: McBride BEH State Com 1 **Collection Date:** 6/23/2021 7:55:00 AM
Lab ID: 2106D72-012 **Matrix:** SOIL **Received Date:** 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	7/2/2021 2:40:09 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/30/2021 2:25:41 PM	60975
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/30/2021 2:25:41 PM	60975
Surr: DNOP	102	70-130		%Rec	1	6/30/2021 2:25:41 PM	60975
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/1/2021 7:25:13 PM	60972
Surr: BFB	101	70-130		%Rec	1	7/1/2021 7:25:13 PM	60972
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/1/2021 7:25:13 PM	60972
Toluene	ND	0.046		mg/Kg	1	7/1/2021 7:25:13 PM	60972
Ethylbenzene	ND	0.046		mg/Kg	1	7/1/2021 7:25:13 PM	60972
Xylenes, Total	ND	0.092		mg/Kg	1	7/1/2021 7:25:13 PM	60972
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/1/2021 7:25:13 PM	60972

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2106D72**
Date Reported: **7/7/2021**

CLIENT: EOG
Client Sample ID: E Wall/ 5'
Project: McBride BEH State Com 1
Collection Date: 6/23/2021 7:57:00 AM
Lab ID: 2106D72-013 **Matrix:** SOIL
Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**VP**
Chloride	ND	60		mg/Kg	20	7/2/2021 2:52:33 AM	61059
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**SB**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/30/2021 2:37:48 PM	60975
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/30/2021 2:37:48 PM	60975
Surr: DNOP	101	70-130		%Rec	1	6/30/2021 2:37:48 PM	60975
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/1/2021 7:48:51 PM	60972
Surr: BFB	99.6	70-130		%Rec	1	7/1/2021 7:48:51 PM	60972
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.024		mg/Kg	1	7/1/2021 7:48:51 PM	60972
Toluene	ND	0.047		mg/Kg	1	7/1/2021 7:48:51 PM	60972
Ethylbenzene	ND	0.047		mg/Kg	1	7/1/2021 7:48:51 PM	60972
Xylenes, Total	ND	0.095		mg/Kg	1	7/1/2021 7:48:51 PM	60972
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/1/2021 7:48:51 PM	60972

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106D72**
07-Jul-21

Client: EOG
Project: McBride BEH State Com 1

Sample ID: **MB-61059**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **61059**	RunNo: **79497**							
Prep Date: **6/30/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796279**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-61059**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **61059**	RunNo: **79497**							
Prep Date: **6/30/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796280**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106D72**
07-Jul-21

Client: EOG
Project: McBride BEH State Com 1

Sample ID: **LCS-60966**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60966**	RunNo: **79472**
Prep Date: **6/28/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793937** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.9	68.9	141			
Surr: DNOP	3.7		5.000		74.8	70	130			

Sample ID: **MB-60966**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60966**	RunNo: **79472**
Prep Date: **6/28/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793939** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		79.4	70	130			

Sample ID: **MB-60975**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60975**	RunNo: **79478**
Prep Date: **6/28/2021**	Analysis Date: **6/30/2021**	SeqNo: **2795008** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			

Sample ID: **LCS-60975**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60975**	RunNo: **79478**
Prep Date: **6/28/2021**	Analysis Date: **6/30/2021**	SeqNo: **2795009** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.2	68.9	141			
Surr: DNOP	5.2		5.000		103	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106D72**
07-Jul-21

Client: EOG
Project: McBride BEH State Com 1

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G79512**	RunNo: **79512**							
Prep Date:	Analysis Date: **7/1/2021**	SeqNo: **2796109**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		95.7	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G79512**	RunNo: **79512**							
Prep Date:	Analysis Date: **7/1/2021**	SeqNo: **2796110**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		115	70	130			

Sample ID: **mb-60972**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **60972**	RunNo: **79512**							
Prep Date: **6/28/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796120**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.8	70	130			

Sample ID: **lcs-60972**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **60972**	RunNo: **79512**							
Prep Date: **6/28/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796122**	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	96.1	78.6	131			
Surr: BFB	1100		1000		107	70	130			

Sample ID: **mb-60962**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **60962**	RunNo: **79532**							
Prep Date: **6/28/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796800**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.1	70	130			

Sample ID: **lcs-60962**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **60962**	RunNo: **79532**							
Prep Date: **6/28/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796802**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.3	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106D72**
07-Jul-21

Client: EOG
Project: McBride BEH State Com 1

Sample ID: **mb-60981**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **60981**	RunNo: **79563**
Prep Date: **6/28/2021**	Analysis Date: **7/2/2021**	SeqNo: **2798482** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		96.7	70	130			

Sample ID: **lcs-60981**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **60981**	RunNo: **79563**
Prep Date: **6/28/2021**	Analysis Date: **7/2/2021**	SeqNo: **2798484** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		114	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106D72**
07-Jul-21

Client: EOG
Project: McBride BEH State Com 1

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **B79512**	RunNo: **79512**							
Prep Date:	Analysis Date: **7/1/2021**	SeqNo: **2796149**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **B79512**	RunNo: **79512**							
Prep Date:	Analysis Date: **7/1/2021**	SeqNo: **2796150**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	70	130			

Sample ID: **mb-60972**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **60972**	RunNo: **79512**							
Prep Date: **6/28/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796159**	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-60972**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **60972**	RunNo: **79512**							
Prep Date: **6/28/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796160**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: **mb-60962**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **60962**	RunNo: **79532**							
Prep Date: **6/28/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796854**	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								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106D72**
07-Jul-21

Client: EOG
Project: McBride BEH State Com 1

Sample ID: **mb-60962**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **60962**	RunNo: **79532**							
Prep Date: **6/28/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796854**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	70	130			

Sample ID: **lcs-60962**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **60962**	RunNo: **79532**							
Prep Date: **6/28/2021**	Analysis Date: **7/1/2021**	SeqNo: **2796856**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.8	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: **mb-60981**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **60981**	RunNo: **79563**							
Prep Date: **6/28/2021**	Analysis Date: **7/2/2021**	SeqNo: **2798540**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.6	70	130			

Sample ID: **lcs-60981**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **60981**	RunNo: **79563**							
Prep Date: **6/28/2021**	Analysis Date: **7/2/2021**	SeqNo: **2798542**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.5	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: EOG | Work Order Number: 2106D72 | RcptNo: 1

Received By: Juan Rojas 6/25/2021 7:30:00 AM

Completed By: Cheyenne Cason 6/25/2021 10:15:32 AM

Reviewed By: JR 6/25/21

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: T.C. 6.25.21

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	2.1	Good				

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

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

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

Turn-Around Time: 5 Day
☒ Standard ☐ Rush

Project Name: McBride BEH State Com #2

Project #: 5375

Project Manager: W. Kierdorf

Sampler: R. Martin

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): ~~0.6~~ ~~0.6~~ 2.1-0=2.1

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. 2106D72	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/22/21	1753	soil	E base / 6'	1 4oz Jar	ice	001	X	X	X
	1755		E base / 8'			002	X	X	X
	1757		E base / 9'			003	X	X	X
	1759		E base / 10'			004	X	X	X
	1801		W base / 6'			005	X	X	X
6/23/21	0743	Soil	N Wall / 2'			006	X	X	X
	0745		N Wall / 5'			007	X	X	X
	0747		S Wall / 2'			008	X	X	X
	0749		S Wall / 5'			009	X	X	X
	0751		W Wall / 2'			010	X	X	X
	0753		W Wall / 5'			011	X	X	X
	0755		E Wall / 2'			012	X	X	X

Date	Time	Relinquished by	Received by	Via	Date	Time
6/24/21	0703	[signature]	[signature]		6/24/21	703
6/24/21	1900	[signature]	[signature]	courier	6/25/21	7:30

Remarks: Bill to EOG Artesia

Updated project name to McBride BEH State Com #1 - as per Will Kierdorf. 7/7/21 MMG

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

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

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 5 Day

Project Name: McBride BEH State Com #2

Project #: 5375

Project Manager: W. Kierdorf

Sampler: R. Martin

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 2.1-0=2.1

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2106071	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
6/23/21	0757	Soil	E Wall / 5'	1 4oz Jar	Ice	~~00~~ 013	X	X	X

Date	Time	Relinquished by	Received by	Via	Date	Time
6/24/21	0703	[signature]	[signature]		6/24/21	703
6/24/21	1900	[signature]	[signature]	courier	6/25/21	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 report.

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

August 29, 2022

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

RE: McBride BEH State Com 1 OrderNo.: 2208A08

Dear Will Kierdorf:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/17/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 26, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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 **2208A08**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** B-1
Project: McBride BEH State Com 1 **Collection Date:** 8/15/2022 12:17:00 PM
Lab ID: 2208A08-001 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/24/2022 2:56:09 AM	69705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	140	15		mg/Kg	1	8/19/2022 12:58:50 PM	69591
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2022 12:58:50 PM	69591
Surr: DNOP	90.5	21-129		%Rec	1	8/19/2022 12:58:50 PM	69591
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	8/19/2022 3:26:00 PM	69575
Surr: BFB	104	37.7-212		%Rec	5	8/19/2022 3:26:00 PM	69575
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	8/19/2022 3:26:00 PM	69575
Toluene	ND	0.24		mg/Kg	5	8/19/2022 3:26:00 PM	69575
Ethylbenzene	ND	0.24		mg/Kg	5	8/19/2022 3:26:00 PM	69575
Xylenes, Total	ND	0.48		mg/Kg	5	8/19/2022 3:26:00 PM	69575
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	5	8/19/2022 3:26:00 PM	69575

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 **2208A08**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-2
Project: McBride BEH State Com 1
Collection Date: 8/15/2022 12:13:00 PM
Lab ID: 2208A08-002 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/24/2022 3:08:34 AM	69705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	170	15		mg/Kg	1	8/19/2022 1:13:11 PM	69591
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2022 1:13:11 PM	69591
Surr: DNOP	88.6	21-129		%Rec	1	8/19/2022 1:13:11 PM	69591
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	8/19/2022 3:46:00 PM	69575
Surr: BFB	113	37.7-212		%Rec	5	8/19/2022 3:46:00 PM	69575
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	8/19/2022 3:46:00 PM	69575
Toluene	ND	0.23		mg/Kg	5	8/19/2022 3:46:00 PM	69575
Ethylbenzene	ND	0.23		mg/Kg	5	8/19/2022 3:46:00 PM	69575
Xylenes, Total	ND	0.46		mg/Kg	5	8/19/2022 3:46:00 PM	69575
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	8/19/2022 3:46:00 PM	69575

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 **2208A08**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-3
Project: McBride BEH State Com 1
Collection Date: 8/15/2022 12:28:00 PM
Lab ID: 2208A08-003 **Matrix:** SOIL
Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	59		mg/Kg	20	8/24/2022 3:21:00 AM	69705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	73	15		mg/Kg	1	8/19/2022 1:27:32 PM	69591
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/19/2022 1:27:32 PM	69591
Surr: DNOP	89.5	21-129		%Rec	1	8/19/2022 1:27:32 PM	69591
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	9.8	5.0		mg/Kg	1	8/19/2022 4:06:00 PM	69575
Surr: BFB	172	37.7-212		%Rec	1	8/19/2022 4:06:00 PM	69575
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/19/2022 4:06:00 PM	69575
Toluene	ND	0.050		mg/Kg	1	8/19/2022 4:06:00 PM	69575
Ethylbenzene	ND	0.050		mg/Kg	1	8/19/2022 4:06:00 PM	69575
Xylenes, Total	ND	0.099		mg/Kg	1	8/19/2022 4:06:00 PM	69575
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	8/19/2022 4:06:00 PM	69575

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 **2208A08**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: B-4
Project: McBride BEH State Com 1
Collection Date: 8/15/2022 12:21:00 PM
Lab ID: 2208A08-004 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/24/2022 3:33:24 AM	69705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	130	14		mg/Kg	1	8/19/2022 4:06:12 PM	69591
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/19/2022 4:06:12 PM	69591
Surr: DNOP	88.2	21-129		%Rec	1	8/19/2022 4:06:12 PM	69591
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	8/19/2022 4:26:00 PM	69575
Surr: BFB	105	37.7-212		%Rec	5	8/19/2022 4:26:00 PM	69575
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	8/19/2022 4:26:00 PM	69575
Toluene	ND	0.25		mg/Kg	5	8/19/2022 4:26:00 PM	69575
Ethylbenzene	ND	0.25		mg/Kg	5	8/19/2022 4:26:00 PM	69575
Xylenes, Total	ND	0.49		mg/Kg	5	8/19/2022 4:26:00 PM	69575
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	5	8/19/2022 4:26:00 PM	69575

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 **2208A08**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-1
Project: McBride BEH State Com 1
Collection Date: 8/15/2022 12:44:00 PM
Lab ID: 2208A08-005 **Matrix:** SOIL
Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	75	60		mg/Kg	20	8/24/2022 3:45:48 AM	69705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/19/2022 4:20:23 PM	69591
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/19/2022 4:20:23 PM	69591
Surr: DNOP	82.5	21-129		%Rec	1	8/19/2022 4:20:23 PM	69591
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/19/2022 4:46:00 PM	69575
Surr: BFB	101	37.7-212		%Rec	1	8/19/2022 4:46:00 PM	69575
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/19/2022 4:46:00 PM	69575
Toluene	ND	0.047		mg/Kg	1	8/19/2022 4:46:00 PM	69575
Ethylbenzene	ND	0.047		mg/Kg	1	8/19/2022 4:46:00 PM	69575
Xylenes, Total	ND	0.094		mg/Kg	1	8/19/2022 4:46:00 PM	69575
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	8/19/2022 4:46:00 PM	69575

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 **2208A08**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-2
Project: McBride BEH State Com 1
Collection Date: 8/15/2022 12:52:00 PM
Lab ID: 2208A08-006 **Matrix:** SOIL
Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**JTT**
Chloride	ND	61		mg/Kg	20	8/24/2022 3:58:13 AM	69705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**DGH**
Diesel Range Organics (DRO)	28	15		mg/Kg	1	8/19/2022 4:34:34 PM	69591
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/19/2022 4:34:34 PM	69591
Surr: DNOP	91.0	21-129		%Rec	1	8/19/2022 4:34:34 PM	69591
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/19/2022 5:05:00 PM	69575
Surr: BFB	108	37.7-212		%Rec	1	8/19/2022 5:05:00 PM	69575
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.025		mg/Kg	1	8/19/2022 5:05:00 PM	69575
Toluene	ND	0.049		mg/Kg	1	8/19/2022 5:05:00 PM	69575
Ethylbenzene	ND	0.049		mg/Kg	1	8/19/2022 5:05:00 PM	69575
Xylenes, Total	ND	0.098		mg/Kg	1	8/19/2022 5:05:00 PM	69575
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	8/19/2022 5:05:00 PM	69575

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 **2208A08**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG **Client Sample ID:** W-3
Project: McBride BEH State Com 1 **Collection Date:** 8/15/2022 1:08:00 PM
Lab ID: 2208A08-007 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/24/2022 4:10:38 AM	69705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/22/2022 10:37:57 PM	69624
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/22/2022 10:37:57 PM	69624
Surr: DNOP	94.6	21-129		%Rec	1	8/22/2022 10:37:57 PM	69624
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/19/2022 8:03:00 PM	69577
Surr: BFB	99.7	37.7-212		%Rec	1	8/19/2022 8:03:00 PM	69577
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	8/19/2022 8:03:00 PM	69577
Toluene	ND	0.050		mg/Kg	1	8/19/2022 8:03:00 PM	69577
Ethylbenzene	ND	0.050		mg/Kg	1	8/19/2022 8:03:00 PM	69577
Xylenes, Total	ND	0.099		mg/Kg	1	8/19/2022 8:03:00 PM	69577
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	8/19/2022 8:03:00 PM	69577

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 **2208A08**
Date Reported: **8/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Client Sample ID: W-4
Project: McBride BEH State Com 1
Collection Date: 8/15/2022 1:17:00 PM
Lab ID: 2208A08-008 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JTT**	
Chloride	ND	60		mg/Kg	20	8/24/2022 4:23:02 AM	69705
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**	
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/22/2022 10:53:12 PM	69624
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/22/2022 10:53:12 PM	69624
Surr: DNOP	89.7	21-129		%Rec	1	8/22/2022 10:53:12 PM	69624
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2022 9:02:00 PM	69577
Surr: BFB	99.2	37.7-212		%Rec	1	8/19/2022 9:02:00 PM	69577
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	8/19/2022 9:02:00 PM	69577
Toluene	ND	0.048		mg/Kg	1	8/19/2022 9:02:00 PM	69577
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2022 9:02:00 PM	69577
Xylenes, Total	ND	0.097		mg/Kg	1	8/19/2022 9:02:00 PM	69577
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	8/19/2022 9:02:00 PM	69577

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#: **2208A08**

29-Aug-22

Client: EOG

Project: McBride BEH State Com 1

Sample ID:	**MB-69705**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**69705**	RunNo:	**90492**					
Prep Date:	**8/23/2022**	Analysis Date:	**8/24/2022**	SeqNo:	**3232612**	Units:	**mg/Kg**			

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

Sample ID:	**LCS-69705**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**69705**	RunNo:	**90492**					
Prep Date:	**8/23/2022**	Analysis Date:	**8/24/2022**	SeqNo:	**3232613**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	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#: **2208A08**

29-Aug-22

Client: EOG

Project: McBride BEH State Com 1

Sample ID: **MB-69591**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69591**	RunNo: **90431**
Prep Date: **8/18/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227097** 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	9.2		10.00		91.8	21	129			

Sample ID: **LCS-69591**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69591**	RunNo: **90431**
Prep Date: **8/18/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227098** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	107	64.4	127			
Surr: DNOP	5.0		5.000		99.3	21	129			

Sample ID: **MB-69630**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69630**	RunNo: **90468**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3231105** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.8		10.00		77.8	21	129			

Sample ID: **LCS-69630**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69630**	RunNo: **90468**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3231106** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.2	21	129			

Sample ID: **MB-69624**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69624**	RunNo: **90468**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3231125** 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	9.6		10.00		96.4	21	129			

Sample ID: **LCS-69624**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69624**	RunNo: **90468**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3231126** Units: **mg/Kg**

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

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#: **2208A08**

29-Aug-22

Client: EOG

Project: McBride BEH State Com 1

Sample ID: **LCS-69624**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69624**	RunNo: **90468**
Prep Date: **8/19/2022**	Analysis Date: **8/22/2022**	SeqNo: **3231126** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.9	64.4	127			
Surr: DNOP	4.7		5.000		93.3	21	129			

Sample ID: **LCS-69697**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **69697**	RunNo: **90543**
Prep Date: **8/23/2022**	Analysis Date: **8/24/2022**	SeqNo: **3234619** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.5		5.000		70.7	21	129			

Sample ID: **MB-69697**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **69697**	RunNo: **90543**
Prep Date: **8/23/2022**	Analysis Date: **8/24/2022**	SeqNo: **3234620** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	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#: **2208A08**

29-Aug-22

Client: EOG

Project: McBride BEH State Com 1

Sample ID: **lcs-69575**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **69575**	RunNo: **90452**
Prep Date: **8/17/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227560** 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	103	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: **mb-69575**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **69575**	RunNo: **90452**
Prep Date: **8/17/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227561** 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-69577**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **69577**	RunNo: **90452**
Prep Date: **8/17/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227584** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2300		1000		227	37.7	212			S

Sample ID: **mb-69577**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **69577**	RunNo: **90452**
Prep Date: **8/17/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227585** 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		100	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#: **2208A08**

29-Aug-22

Client: EOG

Project: McBride BEH State Com 1

Sample ID: **lcs-69575**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69575**	RunNo: **90452**
Prep Date: **8/17/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227608** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.6	80	120			
Toluene	0.85	0.050	1.000	0	85.3	80	120			
Ethylbenzene	0.86	0.050	1.000	0	86.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.5	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	70	130			

Sample ID: **mb-69575**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69575**	RunNo: **90452**
Prep Date: **8/17/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227609** 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		99.3	70	130			

Sample ID: **lcs-69577**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **69577**	RunNo: **90452**
Prep Date: **8/17/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227632** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.3	80	120			
Toluene	0.93	0.050	1.000	0	93.1	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.6	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	70	130			

Sample ID: **mb-69577**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **69577**	RunNo: **90452**
Prep Date: **8/17/2022**	Analysis Date: **8/19/2022**	SeqNo: **3227633** 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	0.96		1.000		95.6	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: 2208A08 RcptNo: 1

Received By: Juan Rojas 8/17/2022 7:10:00 AM

Completed By: Sean Livingston 8/17/2022 8:20:01 AM

Reviewed By: JR 8/17/22

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 8.17.22

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	0.3	Good				

Chain-of-Custody Record

Client: EOG-Artesia / Ranger Env.

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

Ranger: PO Box 201179, Austin TX 78720

Phone #: 521-335-1785

email or Fax#: Will@RangerEnv.com

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

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

Turn-Around Time:
☐ Standard ☒ **Rush** EOG 5-DAY TAT

Project Name: MCBRIDE BEN ST COM #1

Project #: 5375

Project Manager: W. Kierdorf

Sampler: W. KIERDORF

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.3+0.3

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. 2208A08	BTEX (8021)	TPH:8015D(GRO / DRO / MRO)	Chloride (EPA 300)
8/15/22	1217	SOIL	B-1	1 x 4oz JAR	ICE	001	X	X	X
	1213		B-2			002			
	1228		B-3			003			
	1221		B-4			004			
	1244		W-1			005			
	1252		W-2			006			
	1308		W-3			007			
	1317		W-4			008			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
8/16/22	1310				8/16/22	1310
8/16/22	1900				8/17/22	7:10

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

ATTACHMENT 4 – NMOCD CORRESPONDENCE

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, August 11, 2022 8:42 AM
To: emnrd-ocd-district1spills@state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: McBride BEH State Com 1 (1RP-4827/ nOY1727033052) Sampling Notification

Good Morning,

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

McBride BEH State Com 1
E-4-10S-34E
Lea County, NM
1RP-4827/ nOY1727033052

Sampling will begin at 12:00 p.m. on Monday, August 15, 2022.

Thank you,

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

eog resources

Artesia Division

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 139397

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 139397
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	10/11/2022