



CLOSURE REQUEST REPORT

Site Location:

**Graham Lateral 8 Inch Pipeline Release
Eddy County, New Mexico
Incident Number: nAPP2215251908**

September 1, 2022

Ensolum Project No. 03A2013008

Prepared for:

**Targa Resources
3100 McKinnon St. #800
Dallas, TX 75201
Attention: Michael Gant**

Prepared by:

Ben Belill
Project Geologist

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1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Closure Request Report (CRR) to document remediation actions completed in accordance with New Mexico Oil and Conservation Division (NMOCD) guidelines and performed by Targa Resources (Targa) at the Graham Lateral 8 Inch Pipeline Release (hereinafter referred to as the "Site") in Unit C, Section 1, Township 22 South, Range 31 East, in Eddy County, New Mexico (**Figure 1 in Appendix A**). Based on delineation and excavation activities and results of the soil sampling events, Targa is submitting this CRR, describing remediation that has occurred and requesting no further action (NFA) for Incident Number nAPP2215251908. It should be noted, the original responsible party for the release was Lucid Energy Delaware, LLC (Lucid OGRID # 372422). The Site was acquired by Targa following the release. As a result, remedial actions were initiated and completed by Targa.

1.1 Site Description & Release Background

The Site is located within Eddy County, New Mexico (32.424280° N, 104.734041° W) and is associated with oil and gas exploration and production operations on New Mexico State Land (**Figure 1 in Appendix A**).

On May 25, 2022, external weathering caused a rupture along a poly pipeline, releasing approximately 5 barrels (bbls) of pipeline fluid and 810 thousand cubic feet (mcf) of natural gas into the atmosphere and onto the surrounding pasture soils. No residual fluids were recovered. The area of concern is depicted on **Figure 2 in Appendix A**. Targa reported the release to the NMOCD via email and with a Corrective Action Form C-141 (Form C-141) on June 1, 2022. The release was assigned Incident Number nAPP2215251908. Due to the release impacting areas off pad, a Right-of-Entry (ROE) Request was submitted to the State Land Office (SLO) on July 12, 2022, and subsequently approved on July 27, 2022.

1.2 Site Characterization

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on New Mexico Office of the State Engineer (NMOSE) well C-04144, located 1.5 miles southeast of the Site. The well was reported as dry with a total depth of 105 feet bgs. The well record is provided in **Appendix B**.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 1,203 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on **Figure 1 in Appendix A**.

There does not appear to be any sensitive receptors related to the Site; however, the location of the nearest water well is not within 0.5-mile of the Site, which does not meet NMOCD's recommended guidance for estimating depth to groundwater. Additionally, the release occurred within a pipeline ROW and affected undeveloped pasture, which must be reclaimed. Therefore, the follow NMOCD Table 1 Closure Criteria apply:

- Benzene: 10 milligrams per kilogram (mg/kg)

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH): 100 mg/kg
- Chloride: 600 mg/kg

2.0 REMEDIATION ACTIONS

Ensolum conducted soil sampling activities at the Site to verify the presence or absence of soil impacts associated with the subject release and oversaw excavation efforts to remove impacted soil. Approximately 180 cubic yards of impacted soil were removed from the Site and disposed of under Targa-approved manifests.

2.1 Delineation Activities

On August 9, 2022 and August 10, 2022, delineation activities were conducted by Ensolum to characterize the subject release by verifying the presence or absence of impacted soil as compared to the most stringent Closure Criteria. Delineation samples were collected in potholes advanced with heavy equipment (samples designated PH). Delineation activities were directed by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delineation soil sample location (PH01 through PH06): the sample with the observed highest field screening result (ranging from 0.5 foot bgs to 2 feet bgs) and the terminal depth (4 feet bgs) of the borehole. The release extent and delineation soil sample locations are shown in **Figure 2 in Appendix A**. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil sampling logs (**Appendix C**). The soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody procedures, to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

2.1 Excavation Activities

On August 10, 2022, excavation activities were conducted by Ensolum to remove impacted soil from areas with elevated VOCs and chloride field screening results, specifically the area associated with delineation soil sample location PH01.

Following removal of impacted soil, Ensolum collected three composite soil samples at a sampling frequency of 200 square feet from the sidewalls (designated as SW) and floor (designated as FS) of the excavation to confirm impacted soil above the Closure Criteria was successfully removed. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SW01 through SW03 were collected from the sidewalls of the excavation at depths ranging from the ground surface to approximately 1 foot bgs or 4 feet bgs. Composite soil samples FS01 through FS03 were collected from the floor of the excavation at depths ranging from 1 foot bgs or 4 feet bgs. The soil samples were collected, handled and analyzed as previously described. The approximate extent of excavation and confirmation soil sample locations are provided on **Figure 3 in Appendix A**. Photographic documentation of remediation activities is included in **Appendix E**.

1.1 Waste Handling

At the completion of remediation action activities, approximately 180 cubic yards of impacted soil were excavated and transported for disposal to a R360 Environmental Solutions, LLC and Lea Land, LLC in accordance with state and federal regulations.

2.0 SOIL SAMPLING RESULTS

Final laboratory analytical results for all delineation and confirmation soil samples were below the Closure Criteria for the Site. Laboratory analytical results are summarized in the **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

3.0 FINDINGS AND CONCLUSIONS

Based on the results documented in this CRR, the following findings and conclusions regarding the Site are presented:

- Based on laboratory analytical results associated with final confirmation soil samples, concentrations of constituents of concern (COCs) greater than the NMOCD applicable Closure Criteria were only identified in BH01 at 2 feet bgs, which was addressed via excavation and disposal; and
- Approximately 180 cubic yards of impacted soil were excavated and removed from the Site for disposal in accordance with state and federal regulations.

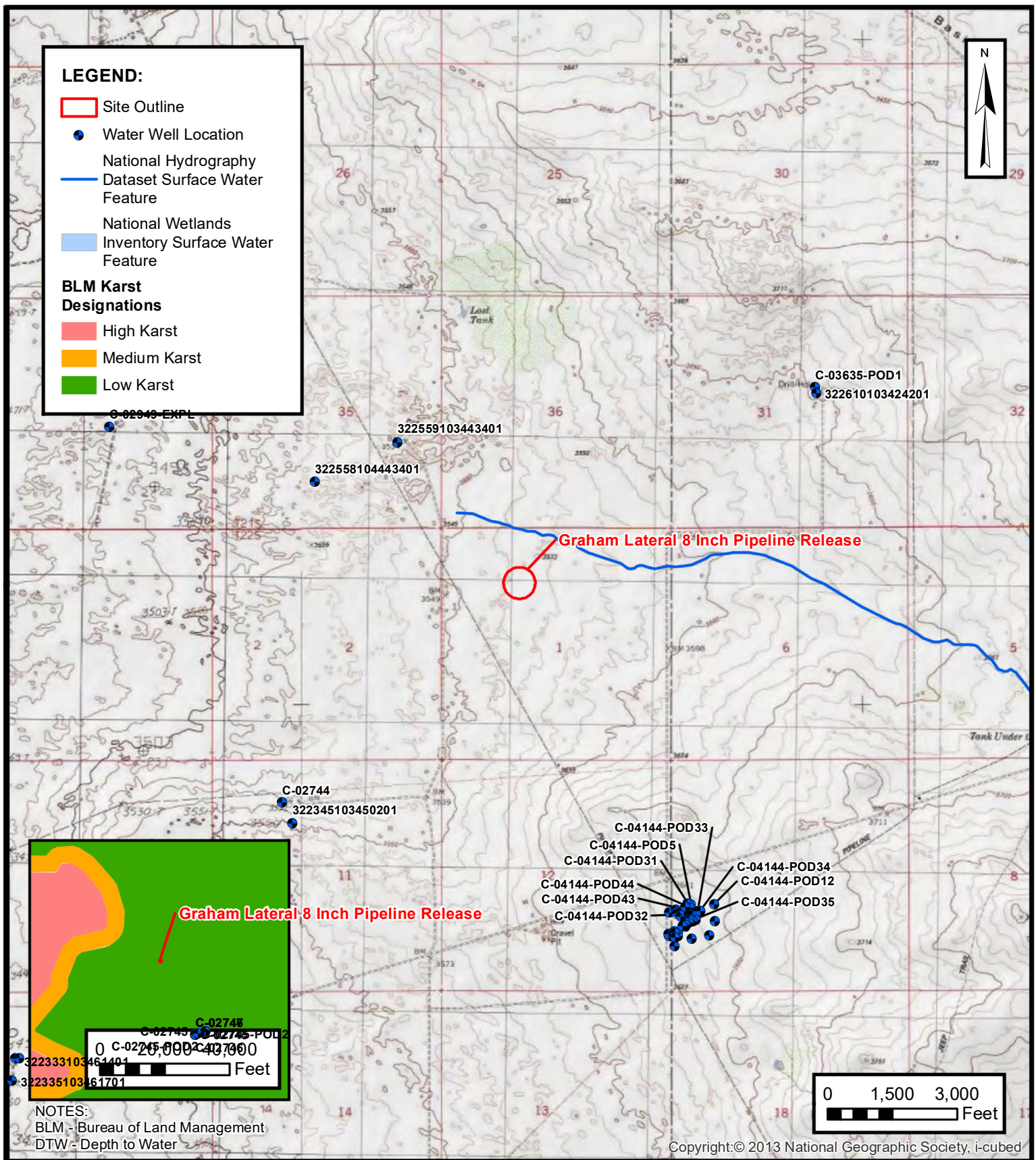
The excavation will be backfilled with clean, imported soil and restored to “as close to its original state” as possible.

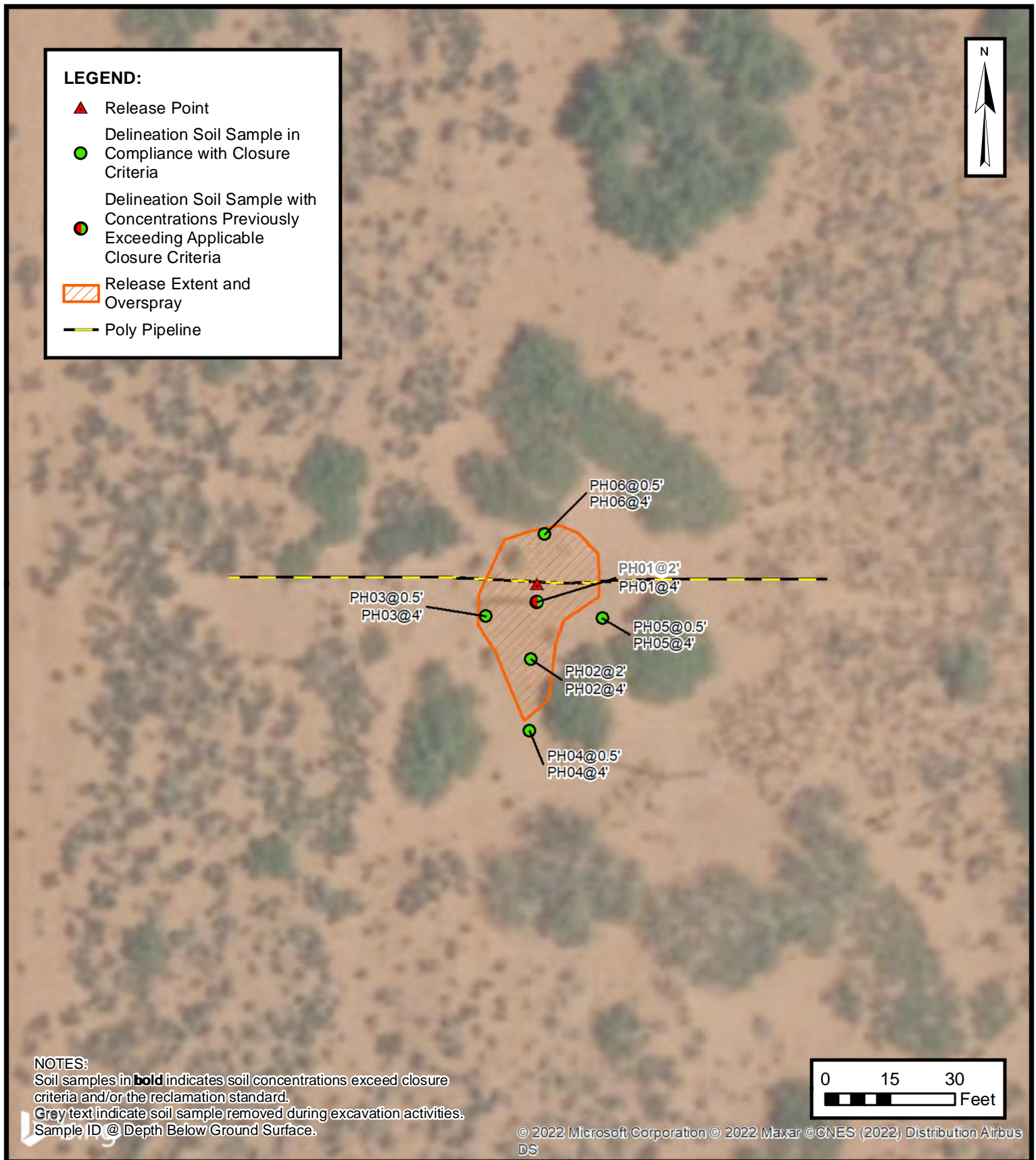
Based on the findings and conclusions of this report, NFA appears warranted at this time and the Site should be considered for Closure by the NMOCD. It should be noted that a 48-hour sampling notification was inadvertently not sent to NMOCD before the start of remediation activities. NMOCD was later notified in by an extension request that laboratory analytical results from confirmation sampling indicated remediation was complete. Targa respectively requests documented confirmation samples be accepted for Closure. The approved extension request is provided in Appendix G.



APPENDIX A

Figures

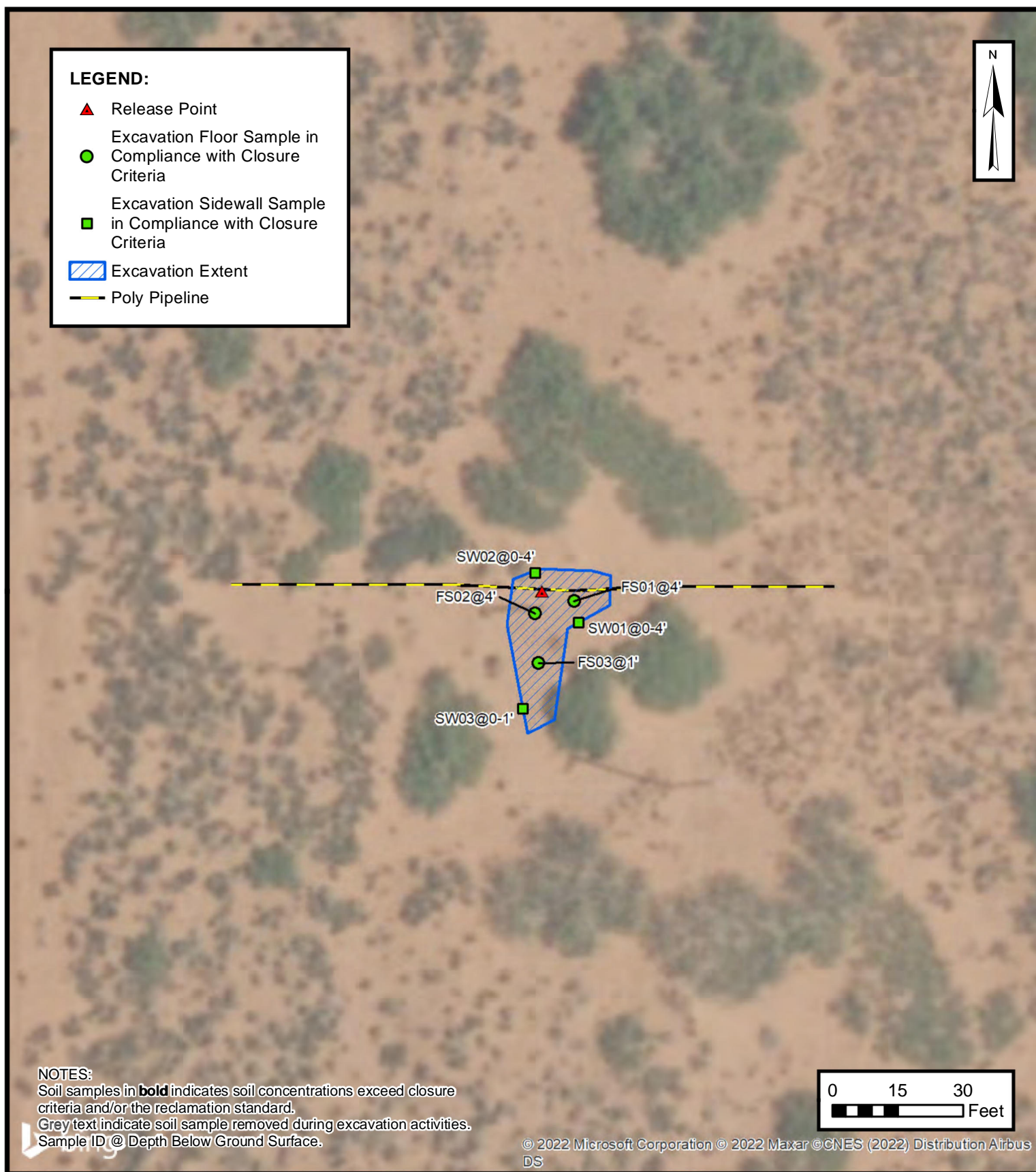




DELINEATION SOIL SAMPLE LOCATIONS

TARGA RESOURCES
 GRAHAM LATERAL 8 INCH PIPELINE RELEASE
 Incident Number nAPP2215251908
 Unit C Sec 1 T22S R31E
 Eddy County, New Mexico

FIGURE
2



EXCAVATION SOIL SAMPLE LOCATIONS

TARGA RESOURCES
 GRAHAM LATERAL 8 INCH PIPELINE RELEASE
 Incident Number nAPP2215251908
 Unit C Sec 1 T22S R31E
 Eddy County, New Mexico

FIGURE
3



APPENDIX B

Referenced Well Logs



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

| | | | | | | | | |
|--|--|-------------------|--|---|---|---|--|--------------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD 12 | | WELL TAG ID NO. PMW-10 | | OSE FILE NO(S). C-4144 | | | |
| | WELL OWNER NAME(S) EOG Resources | | | | PHONE (OPTIONAL) 432-848-9146 | | | |
| | WELL OWNER MAILING ADDRESS 5509 Champions Drive | | | | CITY Midland | STATE Texas | ZIP 79706 | |
| | WELL LOCATION (FROM GPS) | DEGREES 32 | MINUTES 24 | SECONDS 15.43 | N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | |
| | | LONGITUDE -103 | 43 | 10.85 | W | * DATUM REQUIRED: WGS 84 | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Approximately 10.5 south of US Highway 62/180 | | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1664 | | NAME OF LICENSED DRILLER Shawn Cain | | | NAME OF WELL DRILLING COMPANY Cascade Drilling | | |
| | DRILLING STARTED 8/3/21 | | DRILLING ENDED 8/10/21 | | DEPTH OF COMPLETED WELL (FT) NA | BORE HOLE DEPTH (FT) 105 | DEPTH WATER FIRST ENCOUNTERED (FT) NA | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) | | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) NA | | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY: | | | | | | | |
| | DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Roto Sonic | | | | | | | |
| | DEPTH (feet bgl) FROM TO | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) FROM TO | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | | AMOUNT (cubic feet) | METHOD OF PLACEMENT | |
| | 0 105 | | 6 | Cement with 5% Bentonite | | 23 | Trimie Pumped | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

| | | |
|----------|-----------------|-------------|
| FILE NO. | POD NO. | TRN NO. |
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 |

| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm) |
|---|------------------|-----|---------------------|--|---|--|
| | FROM | TO | | | | |
| | 0 | 6 | 6 | Fine Silty Sand Red/Brown | Y ✓ N | |
| | 6 | 10 | 4 | Caliche | Y ✓ N | |
| | 10 | 15 | 5 | Fine Clayey sand brown | Y ✓ N | |
| | 15 | 25 | 10 | Fine sandstone brown | Y ✓ N | |
| | 25 | 65 | 40 | Fine silty sandstone Brown | Y ✓ N | |
| | 65 | 70 | 5 | Medium Sandstone Gray | Y ✓ N | |
| | 70 | 85 | 15 | Fine silty sandstone Brown | Y ✓ N | |
| | 85 | 105 | 20 | Fine to Medium Sandstone | Y ✓ N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 | |

| 5. TEST; RIG SUPERVISION | WELL TEST | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |
|---|----------------------------|---|
| | MISCELLANEOUS INFORMATION: | |
| <p style="text-align: right;">OSE DTI NOV 24 2021 PM 1:38</p> | | |
| PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Jason Camp | | |

| 6. SIGNATURE | BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. | |
|--------------|--|---|
| | _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME | Shawn Cain 11/19/21 _____ DATE |

FOR OSE INTERNAL USE


WR-20 WELL RECORD & LOG (Version 04/30/2019)


| | | |
|----------|-----------------|-------------|
| FILE NO. | POD NO. | TRN NO. |
| LOCATION | WELL TAG ID NO. | PAGE 2 OF 2 |





APPENDIX C


Lithologic Soil Sampling Logs


|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH01 | | Date: 08/10/2022 | | | | |
|---|-------------------|---|--------------------|------------------|-----------------------------|-------------------|---------------------|--|
| | | Site Name: Graham Lateral 8" Pipeline Release | | | | | | |
| | | Incident Number: nAPP2215251908 | | | | | | |
| | | Job Number: 03A2013008 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.424271,-103.734205 | | | Logged By: LC | | Method: Trackhoe | | | |
| | | | Hole Diameter: N/A | | Total Depth: 4' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | 638 | 0.1 | N | | 1' | 1' | SP-SM | 0-4', SILTY SAND, moist, reddish brown, fine grained, poorly graded, trace roots, no stain, no odor. |
| M | 1,271 | 0.6 | N | PH01 | 2' | 2' | | 1-4', roots absent. |
| | | | | | | 3' | | |
| M | 369 | 0.2 | N | PH01 | 4' | 4' | | |
| | | | | | | | TD | Total Depth at 4 feet bgs. |

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH02 | | Date: 08/10/2022 | | | | |
|---|----------------|---|--------------------|------------------|-----------------------|----------------|------------------|--|
| | | Site Name: Graham Lateral 8" Pipeline Release | | | | | | |
| | | Incident Number: nAPP2215251908 | | | | | | |
| | | Job Number: 03A2013008 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.424235,-103.734215 | | | Logged By: LC | | Method: Trackhoe | | | |
| | | | Hole Diameter: N/A | | Total Depth: 4' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | 168 | 0.3 | N | | 1' | 1' | SP-SM | 0-4', SILTY SAND, moist, reddish brown, fine grained, poorly graded, trace roots, no stain, no odor. |
| M | 202 | 0.3 | N | PH02 | 2' | 2' | | 1-4', roots absent. |
| | | | | | | 3' | | |
| M | <168 | 0.2 | N | PH02 | 4' | 4' | | |
| | | | | | | | TD | Total Depth at 4 feet bgs. |

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH03 | | Date: 08/10/2022 | | | | |
|---|----------------|---|--------------------|------------------|-----------------------|----------------|------------------|--|
| | | Site Name: Graham Lateral 8" Pipeline Release | | | | | | |
| | | Incident Number: nAPP2215251908 | | | | | | |
| | | Job Number: 03A2013008 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.424260,-103.734244 | | | Logged By: LC | | Method: Trackhoe | | | |
| | | | Hole Diameter: N/A | | Total Depth: 4' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | <168 | 0.0 | N | PH03 | 0.5' | | SP-SM | 0-4', SILTY SAND, moist, reddish brown, fine to medium grained, poorly graded, trace roots, no stain, no odor. |
| M | <168 | 0.0 | N | | 1' | 1' | | 1-4', roots absent. |
| M | <168 | 0.0 | N | | 2' | 2' | | |
| M | <168 | 0.0 | N | | 3' | 3' | | |
| M | <168 | 0.0 | N | PH03 | 4' | 4' | TD | Total Depth at 4 feet bgs. |

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH04 | | Date: 08/10/2022 | | | | |
|---|----------------|---|----------|--------------------|-----------------------|----------------|------------------|--|
| | | Site Name: Graham Lateral 8" Pipeline Release | | | | | | |
| | | Incident Number: nAPP2215251908 | | | | | | |
| | | Job Number: 03A2013008 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.424190,-103.734212 | | | | Hole Diameter: N/A | | | | |
| | | | | Method: Trackhoe | | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | <168 | 0.0 | N | PH04 | 0.5' | | SP-SM | 0-4', SILTY SAND, moist, reddish brown, fine to medium grained, poorly graded, trace roots, no stain, no odor. |
| M | <168 | 0.0 | N | | 1' | 1' | | |
| | | | | | | | | 1.5'-4', roots absent. |
| M | <168 | 0.0 | N | | 2' | 2' | | |
| M | <168 | 0.0 | N | | 3' | 3' | | |
| M | <168 | 0.0 | N | PH04 | 4' | 4' | | |
| | | | | | | | TD | Total Depth at 4 feet bgs. |

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH05 | | Date: 08/10/2022 | | | | |
|---|----------------|---|--------------------|------------------|-----------------------|----------------|------------------|--|
| | | Site Name: Graham Lateral 8" Pipeline Release | | | | | | |
| | | Incident Number: nAPP2215251908 | | | | | | |
| | | Job Number: 03A2013008 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.424261,-103.734159 | | | Logged By: LC | | Method: Trackhoe | | | |
| | | | Hole Diameter: N/A | | Total Depth: 4' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | <168 | 0.0 | N | PH05 | 0.5' | | SP-SM | 0-4', SILTY SAND, moist, reddish brown, fine to medium grained, poorly graded, trace roots, no stain, no odor. |
| M | <168 | 0.3 | N | | 1' | 1' | | 1.5'-4', roots absent. |
| M | <168 | 0.3 | N | | 2' | 2' | | |
| M | <168 | 0.0 | N | | 3' | 3' | | |
| M | <168 | 0.1 | N | PH05 | 4' | 4' | TD | Total Depth at 4 feet bgs. |

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH06 | | Date: 08/10/2022 | | | | |
|---|----------------|---|--------------------|------------------|-----------------------|----------------|------------------|--|
| | | Site Name: Graham Lateral 8" Pipeline Release | | | | | | |
| | | Incident Number: nAPP2215251908 | | | | | | |
| | | Job Number: 03A2013008 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.424313,-103.734200 | | | Logged By: LC | | Method: Trackhoe | | | |
| | | | Hole Diameter: N/A | | Total Depth: 4' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | <168 | 0.0 | N | PH06 | 0.5' | | SP-SM | 0-4', SILTY SAND, moist, reddish brown, fine to medium grained, poorly graded, trace roots, no stain, no odor. |
| M | <168 | 0.0 | N | | 1' | 1' | | 1.5'-4', roots absent. |
| M | <168 | 0.3 | N | | 2' | 2' | | |
| M | <168 | 0.4 | N | | 3' | 3' | | |
| M | <168 | 0.4 | N | PH06 | 4' | 4' | TD | Total Depth at 4 feet bgs. |



APPENDIX D

Photographic Log

**Photographic Log**

Targa Resources

Graham Lateral 8 Inch Pipeline Release

Incident Number: nAPP2215251908

Ensolum Project Number: 03A2013008

**Photograph 1**

Date: August 9, 2022

Description: Site Assessment Activities

**Photograph 2**

Date: August 9, 2022

Description: Delineation Activities

**Photograph 3**

Date: August 10, 2022

Description: Excavation Activities

**Photograph 4**

Date: August 10, 2022

Description: Excavation Activities



APPENDIX E

Tables



| TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Targa Resources - Graham Lateral 8 Inch Pipeline Release Eddy County, New Mexico Ensolum Project No. 03A2013008 | | | | | | | | | | |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| Delineation Soil Sample Results | | | | | | | | | | |
| PH01 | 08/10/2022 | 2 | <0.024 | <0.213 | <4.70 | 430 | 360 | 430 | 790 | 2,800 |
| PH01 | 08/10/2022 | 4 | <0.025 | <0.224 | <5.00 | <13.0 | <45.0 | <13.0 | <45.0 | 260 |
| PH02 | 08/10/2022 | 2 | <0.023 | <0.211 | <4.70 | <15.0 | <50.0 | <15.0 | <50.0 | 140 |
| PH02 | 08/10/2022 | 4 | <0.023 | <0.208 | <4.60 | <13.0 | <42.0 | <13.0 | <42.0 | 61.0 |
| PH03 | 08/10/2022 | 0.5 | <0.025 | <0.225 | <5.00 | <15.0 | <50.0 | <15.0 | <50.0 | 71.0 |
| PH03 | 08/10/2022 | 4 | <0.025 | <0.222 | <4.90 | <14.0 | <47.0 | <14.0 | <47.0 | 110 |
| PH04 | 08/10/2022 | 0.5 | <0.024 | <0.220 | <4.90 | <14.0 | <46.0 | <14.0 | <46.0 | <60.0 |
| PH04 | 08/10/2022 | 4 | <0.025 | <0.225 | <5.00 | <15.0 | <50.0 | <15.0 | <50.0 | 300 |
| PH05 | 08/10/2022 | 0.5 | <0.024 | <0.216 | <4.80 | <15.0 | <49.0 | <15.0 | <49.0 | <60.0 |
| PH05 | 08/10/2022 | 4 | <0.024 | <0.220 | <4.90 | <14.0 | <45.0 | <14.0 | <45.0 | <61.0 |
| PH06 | 08/10/2022 | 0.5 | <0.024 | <0.216 | <4.80 | <13.0 | <44.0 | <13.0 | <44.0 | <60.0 |
| PH06 | 08/10/2022 | 4 | <0.024 | <0.216 | <4.80 | <13.0 | <44.0 | <13.0 | <44.0 | <60.0 |
| Excavation Soil Sample Results | | | | | | | | | | |
| FS01 | 08/10/2022 | 4 | <0.024 | <0.217 | <4.80 | <14.0 | <48.0 | <14.0 | <48.0 | 240 |
| FS02 | 08/10/2022 | 4 | <0.025 | <0.224 | <5.00 | <14.0 | <46.0 | <14.0 | <46.0 | <60.0 |
| FS03 | 08/10/2022 | 1 | <0.025 | <0.221 | <4.90 | <15.0 | <49.0 | <15.0 | <49.0 | 160 |
| SW01 | 08/10/2022 | 0-4 | <0.024 | <0.216 | <4.80 | <14.0 | <48.0 | <14.0 | <48.0 | 140 |
| SW02 | 08/10/2022 | 0-4 | <0.024 | <0.213 | <4.70 | <14.0 | <47.0 | <14.0 | <47.0 | 120 |
| SW03 | 08/10/2022 | 0-1 | <0.024 | <0.215 | <4.80 | <15.0 | <51.0 | <15.0 | <47.0 | 300 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text indicate soil sample removed during excavation activities

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.



APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

August 18, 2022

Ben Belill
Lucid Energy
201 South 4th St.
Artesia, NM 88210
TEL: (575) 513-8988
FAX:

RE: Graham Lateral 8 Inch Pipeline

OrderNo.: 2208810

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2208810

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH04@0.5'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 12:30:00 PM

Lab ID: 2208810-001

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 8/15/2022 3:54:54 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 8/15/2022 3:54:54 PM |
| Surr: DNOP | 98.1 | 21-129 | | %Rec | 1 | 8/15/2022 3:54:54 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/16/2022 12:26:00 PM |
| Surr: BFB | 101 | 37.7-212 | | %Rec | 1 | 8/16/2022 12:26:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 12:26:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/16/2022 12:26:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/16/2022 12:26:00 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 8/16/2022 12:26:00 PM |
| Surr: 4-Bromofluorobenzene | 97.0 | 70-130 | | %Rec | 1 | 8/16/2022 12:26:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: NAI |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/16/2022 1:51:42 AM |

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

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

Page 1 of 7

Analytical Report

Lab Order 2208810

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH04@4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 12:50:00 PM

Lab ID: 2208810-002

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 8/15/2022 4:32:02 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 8/15/2022 4:32:02 PM |
| Surr: DNOP | 97.0 | 21-129 | | %Rec | 1 | 8/15/2022 4:32:02 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 8/16/2022 12:46:00 PM |
| Surr: BFB | 103 | 37.7-212 | | %Rec | 1 | 8/16/2022 12:46:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/16/2022 12:46:00 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/16/2022 12:46:00 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/16/2022 12:46:00 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/16/2022 12:46:00 PM |
| Surr: 4-Bromofluorobenzene | 99.5 | 70-130 | | %Rec | 1 | 8/16/2022 12:46:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: NAI |
| Chloride | 300 | 60 | | mg/Kg | 20 | 8/16/2022 2:28:55 AM |

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

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

Page 2 of 7

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208810

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69515 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69515 | RunNo: 90298 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220931 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-69515 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69515 | RunNo: 90298 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220932 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.2 | 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 Quantitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208810

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69506 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221135 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 | 9.3 | | 10.00 | | 93.0 | 21 | 129 | | | |

| Sample ID: LCS-69506 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221136 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 15 | 50.00 | 0 | 102 | 64.4 | 127 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.6 | 21 | 129 | | | |

| Sample ID: 2208810-002AMS | SampType: MS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PH04@4' | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221139 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 50 | 14 | 48.26 | 0 | 104 | 36.1 | 154 | | | |
| Surr: DNOP | 4.3 | | 4.826 | | 88.3 | 21 | 129 | | | |

| Sample ID: 2208810-002AMSD | SampType: MSD | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PH04@4' | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221140 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45 | 14 | 48.08 | 0 | 93.6 | 36.1 | 154 | 10.4 | 33.9 | |
| Surr: DNOP | 4.1 | | 4.808 | | 85.0 | 21 | 129 | 0 | 0 | |

| Sample ID: MB-69521 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221703 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.8 | | 10.00 | | 87.7 | 21 | 129 | | | |

| Sample ID: LCS-69521 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221704 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208810

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

| | | | | | | | | | | |
|----------------------|--------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-69521 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
| Client ID: LCSS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221704 | | Units: %Rec | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.6 | | 5.000 | | 72.9 | 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 Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix interference
- B

Analyte detected in the associated Method Blank
- E

Estimated value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208810

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221186 | | 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 | 104 | 72.3 | 137 | | | |
| Surr: BFB | 2200 | | 1000 | | 219 | 37.7 | 212 | | | S |

| Sample ID: mb-69502 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221188 | | 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 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208810

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|----------|---------------------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221187 | | | 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 | 90.1 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 92.5 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 93.8 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 94.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.5 | 70 | 130 | | | |

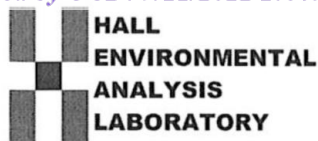
| Sample ID: mb-69502 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|----------|---------------------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221192 | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 70 | 130 | | | |

| Sample ID: mb-69518 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|----------|--------------------|------|----------|------|
| Client ID: PBS | Batch ID: 69518 | | | RunNo: 90310 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3222136 | | | Units: %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 105 | 70 | 130 | | | |

| Sample ID: LCS-69518 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|----------|--------------------|------|----------|------|
| Client ID: LCSS | Batch ID: 69518 | | | RunNo: 90310 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3222137 | | | Units: %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 70 | 130 | | | |

Qualifiers:

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



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: Lucid Energy

Work Order Number: 2208810

RcptNo: 1

Received By: Juan Rojas

8/12/2022 7:20:00 AM

Completed By: Tracy Casarrubias

8/12/2022 8:46:21 AM

Reviewed By: DAD 8/12/22

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 $>0^{\circ}\text{C}$ 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: Jn 8/12/22

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

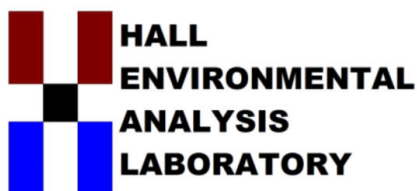
Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 0.5 | Good | Yes | | | |



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

August 18, 2022

Ben Belill
Lucid Energy
201 South 4th St.
Artesia, NM 88210
TEL: (575) 513-8988
FAX:

RE: Graham Lateral 8 Inch Pipeline

OrderNo.: 2208811

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2208811

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH05@0.5'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 1:00:00 PM

Lab ID: 2208811-001

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 8/15/2022 5:16:52 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 8/15/2022 5:16:52 PM |
| Surr: DNOP | 96.6 | 21-129 | | %Rec | 1 | 8/15/2022 5:16:52 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 8/16/2022 1:06:00 PM |
| Surr: BFB | 104 | 37.7-212 | | %Rec | 1 | 8/16/2022 1:06:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 1:06:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 1:06:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 1:06:00 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 8/16/2022 1:06:00 PM |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %Rec | 1 | 8/16/2022 1:06:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: NAI |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/16/2022 3:06:09 AM |

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

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

Page 1 of 6

Analytical Report

Lab Order 2208811

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH05@4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 1:20:00 PM

Lab ID: 2208811-002

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 8/15/2022 5:32:40 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 8/15/2022 5:32:40 PM |
| Surr: DNOP | 99.0 | 21-129 | | %Rec | 1 | 8/15/2022 5:32:40 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/16/2022 1:46:00 PM |
| Surr: BFB | 104 | 37.7-212 | | %Rec | 1 | 8/16/2022 1:46:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 1:46:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/16/2022 1:46:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/16/2022 1:46:00 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 8/16/2022 1:46:00 PM |
| Surr: 4-Bromofluorobenzene | 102 | 70-130 | | %Rec | 1 | 8/16/2022 1:46:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: NAI |
| Chloride | ND | 61 | | mg/Kg | 20 | 8/16/2022 3:18:33 AM |

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

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

Page 2 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208811

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69515 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69515 | RunNo: 90298 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220931 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-69515 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69515 | RunNo: 90298 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220932 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.2 | 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 Quantitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

Page 3 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208811

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69506 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221135 | | | 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 | 9.3 | | 10.00 | | 93.0 | 21 | 129 | | | |

| Sample ID: LCS-69506 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221136 | | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 15 | 50.00 | 0 | 102 | 64.4 | 127 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.6 | 21 | 129 | | | |

| Sample ID: MB-69521 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221703 | | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.8 | | 10.00 | | 87.7 | 21 | 129 | | | |

| Sample ID: LCS-69521 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221704 | | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.6 | | 5.000 | | 72.9 | 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 Quantitative Limit
S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208811

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| | | | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: lcs-69502 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
| Client ID: LCSS | Batch ID: 69502 | RunNo: 90302 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221186 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 | 104 | 72.3 | 137 | | | |
| Surr: BFB | 2200 | | 1000 | | 219 | 37.7 | 212 | | | S |

| | | | | | | | | | | |
|-------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: mb-69502 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
| Client ID: PBS | Batch ID: 69502 | RunNo: 90302 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221188 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 | | | |

Qualifiers:

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208811

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221187 | | 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 | 90.1 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 92.5 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 93.8 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 94.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.5 | 70 | 130 | | | |

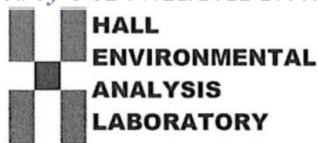
| Sample ID: mb-69502 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221192 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 70 | 130 | | | |

| Sample ID: mb-69518 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69518 | | RunNo: 90310 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3222136 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 105 | 70 | 130 | | | |

| Sample ID: LCS-69518 | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69518 | | RunNo: 90310 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3222137 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 70 | 130 | | | |

Qualifiers:

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



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: Lucid Energy

Work Order Number: 2208811

RcptNo: 1

Received By: Juan Rojas

8/12/2022 7:20:00 AM

Juan Rojas

Completed By: Tracy Casarrubias

8/12/2022 8:52:20 AM

Reviewed By: DAD 8/12/22

Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. 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 ☒# of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

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 ☐Checked by: *JR 8/12/22*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 | 0.5 | Good | Yes | | | |

Client: Michael Gant - Lucid Energy Group - Delaware

Mailing Address: 3100 McKisson St #800

Received by OCD: 9/21/2022 2:44:22 PM
Dallas, TX 75201

Phone #: 314-330-7876

email or Fax#:mgant@lucid-energy.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush 5 Day

| |
|---------------|
| Project Name: |
|---------------|

Graham Lateral 8" Pipeline

2 PM Project #:

03A2013008

Project Manager:

Ben Belill

Sampler: LC

On Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp(including CF): 10.5-20.5

| Container Type and # | Container Name | Container ID | Container Image | Container Status | Container IP | Container Port | Container Description |
|----------------------|-------------------|-----------------|--------------------|---------------------|-----------------|-------------------|--------------------------|
| Container 1 | Container 1 Name | Container 1 ID | Container 1 Image | Container 1 Status | Container 1 IP | Container 1 Port | Container 1 Description |
| Container 2 | Container 2 Name | Container 2 ID | Container 2 Image | Container 2 Status | Container 2 IP | Container 2 Port | Container 2 Description |
| Container 3 | Container 3 Name | Container 3 ID | Container 3 Image | Container 3 Status | Container 3 IP | Container 3 Port | Container 3 Description |
| Container 4 | Container 4 Name | Container 4 ID | Container 4 Image | Container 4 Status | Container 4 IP | Container 4 Port | Container 4 Description |
| Container 5 | Container 5 Name | Container 5 ID | Container 5 Image | Container 5 Status | Container 5 IP | Container 5 Port | Container 5 Description |
| Container 6 | Container 6 Name | Container 6 ID | Container 6 Image | Container 6 Status | Container 6 IP | Container 6 Port | Container 6 Description |
| Container 7 | Container 7 Name | Container 7 ID | Container 7 Image | Container 7 Status | Container 7 IP | Container 7 Port | Container 7 Description |
| Container 8 | Container 8 Name | Container 8 ID | Container 8 Image | Container 8 Status | Container 8 IP | Container 8 Port | Container 8 Description |
| Container 9 | Container 9 Name | Container 9 ID | Container 9 Image | Container 9 Status | Container 9 IP | Container 9 Port | Container 9 Description |
| Container 10 | Container 10 Name | Container 10 ID | Container 10 Image | Container 10 Status | Container 10 IP | Container 10 Port | Container 10 Description |

Preservative
Type

HEAL No.
270884

| Date | Time | Matrix | Sample Name |
|------|------|--------|-------------|
|------|------|--------|-------------|

| | | | |
|---------|------|---|-------------|
| 8/10/22 | 1300 | S | PH05 @ 0.5' |
|---------|------|---|-------------|

| | | | |
|---------|------|---|-----------|
| 8/10/22 | 1320 | S | PH05 @ 4' |
|---------|------|---|-----------|

| | | | |
|--------------|------|------|------|
| Received by: | Via: | Date | Time |
|--------------|------|------|------|

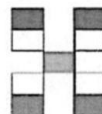
Accounting 8/11/22 1210

Received by: Via: Date Time

[Signature] 8/10/2019 5/12/22 7:20

| | |
|----------|--|
| Remarks: | |
|----------|--|

Company Code: 860 Property Code: 195225010 AFE: 300091
direct bill to Lucid Energy; email client,
jhernandez@ensolum.com/bbelil@ensolum.com for reporting receipts



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

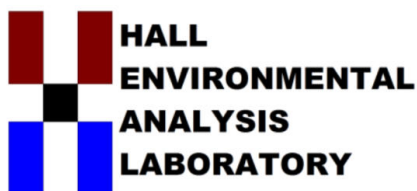
4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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 noted on the analytical report.



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

August 18, 2022

Ben Belill
Lucid Energy
201 South 4th St.
Artesia, NM 88210
TEL: (575) 513-8988
FAX:

RE: Graham Lateral 8 Inch Pipeline

OrderNo.: 2208812

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2208812

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH02@2'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 2:20:00 PM

Lab ID: 2208812-001

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 8/15/2022 5:48:30 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 8/15/2022 5:48:30 PM |
| Surr: DNOP | 107 | 21-129 | | %Rec | 1 | 8/15/2022 5:48:30 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 8/16/2022 2:05:00 PM |
| Surr: BFB | 105 | 37.7-212 | | %Rec | 1 | 8/16/2022 2:05:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 8/16/2022 2:05:00 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 8/16/2022 2:05:00 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 8/16/2022 2:05:00 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 8/16/2022 2:05:00 PM |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %Rec | 1 | 8/16/2022 2:05:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: NAI |
| Chloride | 140 | 60 | | mg/Kg | 20 | 8/16/2022 3:30:57 AM |

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

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

Page 1 of 6

Analytical Report

Lab Order 2208812

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH02@4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 12:00:00 PM

Lab ID: 2208812-002

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 13 | | mg/Kg | 1 | 8/15/2022 6:05:00 PM |
| Motor Oil Range Organics (MRO) | ND | 42 | | mg/Kg | 1 | 8/15/2022 6:05:00 PM |
| Surr: DNOP | 101 | 21-129 | | %Rec | 1 | 8/15/2022 6:05:00 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 8/16/2022 2:25:00 PM |
| Surr: BFB | 102 | 37.7-212 | | %Rec | 1 | 8/16/2022 2:25:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 8/16/2022 2:25:00 PM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 8/16/2022 2:25:00 PM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 8/16/2022 2:25:00 PM |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 8/16/2022 2:25:00 PM |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %Rec | 1 | 8/16/2022 2:25:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: NAI |
| Chloride | 61 | 60 | | mg/Kg | 20 | 8/16/2022 4:08:10 AM |

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

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

Page 2 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208812

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-69515 | SampType: mbk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBS | Batch ID: 69515 | RunNo: 90298 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220931 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-69515 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSS | Batch ID: 69515 | RunNo: 90298 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220932 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.2 | 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 Quantitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

Page 3 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208812

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69506 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221135 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 | 9.3 | | 10.00 | | 93.0 | 21 | 129 | | | |

| Sample ID: LCS-69506 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221136 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 15 | 50.00 | 0 | 102 | 64.4 | 127 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.6 | 21 | 129 | | | |

| Sample ID: MB-69521 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221703 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.8 | | 10.00 | | 87.7 | 21 | 129 | | | |

| Sample ID: LCS-69521 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221704 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.6 | | 5.000 | | 72.9 | 21 | 129 | | | |

Qualifiers:

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208812

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221186 | | 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 | 104 | 72.3 | 137 | | | |
| Surr: BFB | 2200 | | 1000 | | 219 | 37.7 | 212 | | | S |

| Sample ID: mb-69502 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221188 | | 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 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208812

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221187 | | 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 | 90.1 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 92.5 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 93.8 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 94.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.5 | 70 | 130 | | | |

| Sample ID: mb-69502 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221192 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 70 | 130 | | | |

| Sample ID: mb-69518 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69518 | | | RunNo: 90310 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3222136 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 105 | 70 | 130 | | | |

| Sample ID: LCS-69518 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69518 | | | RunNo: 90310 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3222137 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 70 | 130 | | | |

Qualifiers:

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



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: Lucid Energy

Work Order Number: 2208812

RcptNo: 1

Received By: Juan Rojas

8/12/2022 7:20:00 AM

Completed By: Tracy Casarrubias

8/12/2022 8:54:52 AM

Reviewed By: DAD 8/12/22

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 $>0^{\circ}\text{C}$ 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: JN 8/12/22

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 $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 0.5 | Good | Yes | | | |

Client: Michael Gant - Lucid Energy Group - Delaware

Mailing Address: 3100 McKisson St. #800

Phone #: 314-330-7876

email or Fax#:mgant@lucid-energy.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☒ Rush 5 Day

| |
|---------------|
| Project Name: |
|---------------|

Graham Lateral 8" Pipeline

Project #:

03A2013008

Project Manager:
Ben Belill

Sampler: LC

On Ice: ☒ Yes ☐ No

of Coolers: \

Cooler Temp (including CF): 0.5-0.5-0.5

| Container Type and # | Preservative Type |
|-------------------------|----------------------|
|-------------------------|----------------------|

| | |
|-------------------|---------------------|
| Preservative Type | HEAL No. 2208817 |
|-------------------|---------------------|

| | | |
|-------|-------|------------------|
| Date: | Time: | Relinquished by: |
|-------|-------|------------------|

| | | |
|---------|------|-----------|
| 8/11/22 | 1110 | Liz Cheli |
|---------|------|-----------|

| | | |
|-------|-------|------------------|
| Date: | Time: | Relinquished by: |
|-------|-------|------------------|

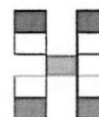
| | | | |
|--------------|------|------|------|
| Received by: | Via: | Date | Time |
|--------------|------|------|------|

8/11/22 12:10

| | | | |
|--------------|------|------|------|
| Received by: | Via: | Date | Time |
|--------------|------|------|------|

Remarks:

Company Code: 860 Property Code: 195225010 AFE: 300091
direct bill to Lucid Energy; email client,
jhernandez@ensolum.com/bbellill@ensolum.com for reporting receipts



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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



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

August 18, 2022

Ben Belill
Lucid Energy
201 South 4th St.
Artesia, NM 88210
TEL: (575) 513-8988
FAX:

RE: Graham Lateral 8 Inch Pipeline

OrderNo.: 2208813

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2208813

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH06@0.5'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 1:25:00 PM

Lab ID: 2208813-001

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 13 | | mg/Kg | 1 | 8/15/2022 6:21:08 PM |
| Motor Oil Range Organics (MRO) | ND | 44 | | mg/Kg | 1 | 8/15/2022 6:21:08 PM |
| Surr: DNOP | 108 | 21-129 | | %Rec | 1 | 8/15/2022 6:21:08 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 8/16/2022 2:45:00 PM |
| Surr: BFB | 103 | 37.7-212 | | %Rec | 1 | 8/16/2022 2:45:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 2:45:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 2:45:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 2:45:00 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 8/16/2022 2:45:00 PM |
| Surr: 4-Bromofluorobenzene | 97.7 | 70-130 | | %Rec | 1 | 8/16/2022 2:45:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/15/2022 11:41:21 PM |

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

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

Page 1 of 6

Analytical Report

Lab Order 2208813

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH06@4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 1:45:00 PM

Lab ID: 2208813-002

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 13 | | mg/Kg | 1 | 8/15/2022 6:37:22 PM |
| Motor Oil Range Organics (MRO) | ND | 44 | | mg/Kg | 1 | 8/15/2022 6:37:22 PM |
| Surr: DNOP | 102 | 21-129 | | %Rec | 1 | 8/15/2022 6:37:22 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 8/16/2022 3:05:00 PM |
| Surr: BFB | 105 | 37.7-212 | | %Rec | 1 | 8/16/2022 3:05:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 3:05:00 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 3:05:00 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 3:05:00 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 8/16/2022 3:05:00 PM |
| Surr: 4-Bromofluorobenzene | 97.7 | 70-130 | | %Rec | 1 | 8/16/2022 3:05:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/15/2022 11:53:46 PM |

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

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

Page 2 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208813

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69517 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69517 | RunNo: 90295 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220797 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-69517 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69517 | RunNo: 90295 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220798 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.4 | 90 | 110 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208813

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69506 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221135 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 | 9.3 | | 10.00 | | 93.0 | 21 | 129 | | | |

| Sample ID: LCS-69506 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221136 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 15 | 50.00 | 0 | 102 | 64.4 | 127 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.6 | 21 | 129 | | | |

| Sample ID: MB-69521 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221703 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.8 | | 10.00 | | 87.7 | 21 | 129 | | | |

| Sample ID: LCS-69521 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221704 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.6 | | 5.000 | | 72.9 | 21 | 129 | | | |

Qualifiers:

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208813

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221186 | | 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 | 104 | 72.3 | 137 | | | |
| Surr: BFB | 2200 | | 1000 | | 219 | 37.7 | 212 | | | S |

| Sample ID: mb-69502 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221188 | | 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 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208813

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221187 | | 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 | 90.1 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 92.5 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 93.8 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 94.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.5 | 70 | 130 | | | |

| Sample ID: mb-69502 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221192 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 70 | 130 | | | |

| Sample ID: mb-69518 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69518 | | | RunNo: 90310 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3222136 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 105 | 70 | 130 | | | |

| Sample ID: LCS-69518 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69518 | | | RunNo: 90310 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3222137 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 70 | 130 | | | |

Qualifiers:

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



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: Lucid Energy

Work Order Number: 2208813

RcptNo: 1

Received By: Juan Rojas

8/12/2022 7:20:00 AM

Completed By: Tracy Casarrubias

8/12/2022 8:57:41 AM

Reviewed By: DAD 8/12/22

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 $>0^{\circ}\text{C}$ 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: yn 8/12/22

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 $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 0.5 | Good | Yes | | | |

[illegible]

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



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

August 18, 2022

Ben Belill
Lucid Energy
201 South 4th St.
Artesia, NM 88210
TEL: (575) 513-8988
FAX:

RE: Graham Lateral 8 Inch Pipeline

OrderNo.: 2208814

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2208814

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH01@2'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 2:05:00 PM

Lab ID: 2208814-001

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | 430 | 14 | | mg/Kg | 1 | 8/15/2022 6:53:46 PM |
| Motor Oil Range Organics (MRO) | 360 | 45 | | mg/Kg | 1 | 8/15/2022 6:53:46 PM |
| Surr: DNOP | 98.9 | 21-129 | | %Rec | 1 | 8/15/2022 6:53:46 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 8/16/2022 3:25:00 PM |
| Surr: BFB | 102 | 37.7-212 | | %Rec | 1 | 8/16/2022 3:25:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 3:25:00 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 8/16/2022 3:25:00 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 8/16/2022 3:25:00 PM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 8/16/2022 3:25:00 PM |
| Surr: 4-Bromofluorobenzene | 96.3 | 70-130 | | %Rec | 1 | 8/16/2022 3:25:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 2800 | 150 | | mg/Kg | 50 | 8/16/2022 7:44:59 AM |

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

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

Page 1 of 6

Analytical Report

Lab Order 2208814

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH01@4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 2:10:00 PM

Lab ID: 2208814-002

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 13 | | mg/Kg | 1 | 8/15/2022 7:10:00 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 8/15/2022 7:10:00 PM |
| Surr: DNOP | 105 | 21-129 | | %Rec | 1 | 8/15/2022 7:10:00 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 8/16/2022 11:20:39 AM |
| Surr: BFB | 84.4 | 37.7-212 | | %Rec | 1 | 8/16/2022 11:20:39 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/16/2022 11:20:39 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/16/2022 11:20:39 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/16/2022 11:20:39 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 8/16/2022 11:20:39 AM |
| Surr: 4-Bromofluorobenzene | 107 | 70-130 | | %Rec | 1 | 8/16/2022 11:20:39 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 260 | 61 | | mg/Kg | 20 | 8/16/2022 12:18:35 AM |

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

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

Page 2 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208814

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-69517 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBS | Batch ID: 69517 | RunNo: 90295 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220797 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-69517 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSS | Batch ID: 69517 | RunNo: 90295 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220798 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.4 | 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 Quantitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

Page 3 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208814

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69506 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221135 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 | 9.3 | | 10.00 | | 93.0 | 21 | 129 | | | |

| Sample ID: LCS-69506 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221136 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 15 | 50.00 | 0 | 102 | 64.4 | 127 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.6 | 21 | 129 | | | |

| Sample ID: MB-69473 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69473 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/12/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221171 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.3 | | 10.00 | | 83.1 | 21 | 129 | | | |

| Sample ID: LCS-69473 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69473 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/12/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221173 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.3 | | 5.000 | | 86.6 | 21 | 129 | | | |

Qualifiers:

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208814

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221186 | | 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 | 104 | 72.3 | 137 | | | |
| Surr: BFB | 2200 | | 1000 | | 219 | 37.7 | 212 | | | S |

| Sample ID: mb-69502 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221188 | | 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 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208814

18-Aug-22

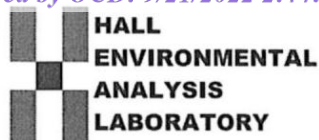
Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221187 | | 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 | 90.1 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 92.5 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 93.8 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 94.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.5 | 70 | 130 | | | |

| Sample ID: mb-69502 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221192 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 70 | 130 | | | |

Qualifiers:

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



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: Lucid Energy

Work Order Number: 2208814

RcptNo: 1

Received By: Juan Rojas

8/12/2022 7:20:00 AM

Completed By: Tracy Casarrubias

8/12/2022 9:01:42 AM

Reviewed By: DAO 8/12/22

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 $>0^{\circ}\text{C}$ 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: JO 8/12/22

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 $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 0.5 | Good | Yes | | | |

[illegible]

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



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

August 18, 2022

Ben Belill
Lucid Energy
201 South 4th St.
Artesia, NM 88210
TEL: (575) 513-8988
FAX:

RE: Graham Lateral 8 Inch Pipeline

OrderNo.: 2208816

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2208816

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH03@0.5'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 12:05:00 PM

Lab ID: 2208816-001

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 8/15/2022 7:26:11 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 8/15/2022 7:26:11 PM |
| Surr: DNOP | 99.4 | 21-129 | | %Rec | 1 | 8/15/2022 7:26:11 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 8/16/2022 11:44:20 AM |
| Surr: BFB | 83.8 | 37.7-212 | | %Rec | 1 | 8/16/2022 11:44:20 AM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/16/2022 11:44:20 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/16/2022 11:44:20 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/16/2022 11:44:20 AM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/16/2022 11:44:20 AM |
| Surr: 4-Bromofluorobenzene | 102 | 70-130 | | %Rec | 1 | 8/16/2022 11:44:20 AM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 71 | 60 | | mg/Kg | 20 | 8/16/2022 12:31:01 AM |

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

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

Page 1 of 6

Analytical Report

Lab Order 2208816

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: PH03@4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 12:20:00 PM

Lab ID: 2208816-002

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 8/15/2022 7:42:02 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 8/15/2022 7:42:02 PM |
| Surr: DNOP | 99.0 | 21-129 | | %Rec | 1 | 8/15/2022 7:42:02 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/16/2022 12:08:00 PM |
| Surr: BFB | 82.9 | 37.7-212 | | %Rec | 1 | 8/16/2022 12:08:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/16/2022 12:08:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/16/2022 12:08:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/16/2022 12:08:00 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 8/16/2022 12:08:00 PM |
| Surr: 4-Bromofluorobenzene | 102 | 70-130 | | %Rec | 1 | 8/16/2022 12:08:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 110 | 60 | | mg/Kg | 20 | 8/16/2022 1:08:15 AM |

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

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

Page 2 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208816

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-69517 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: PBS | Batch ID: 69517 | RunNo: 90295 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220797 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-69517 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
| Client ID: LCSS | Batch ID: 69517 | RunNo: 90295 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220798 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.4 | 90 | 110 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 3 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208816

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69506 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221135 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 | 9.3 | | 10.00 | | 93.0 | 21 | 129 | | | |

| Sample ID: LCS-69506 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221136 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 15 | 50.00 | 0 | 102 | 64.4 | 127 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.6 | 21 | 129 | | | |

| Sample ID: MB-69521 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221703 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.8 | | 10.00 | | 87.7 | 21 | 129 | | | |

| Sample ID: LCS-69521 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221704 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.6 | | 5.000 | | 72.9 | 21 | 129 | | | |

Qualifiers:

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208816

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221186 | | 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 | 104 | 72.3 | 137 | | | |
| Surr: BFB | 2200 | | 1000 | | 219 | 37.7 | 212 | | | S |

| Sample ID: mb-69502 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221188 | | 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 | | | |

Qualifiers:

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

Page 5 of 6

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208816

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221187 | | 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 | 90.1 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 92.5 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 93.8 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 94.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.5 | 70 | 130 | | | |

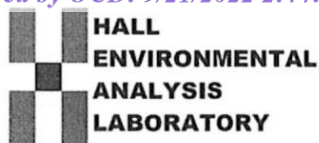
| Sample ID: mb-69502 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221192 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 70 | 130 | | | |

| Sample ID: mb-69518 | SampType: MBLK | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69518 | | RunNo: 90310 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3222136 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 105 | 70 | 130 | | | |

| Sample ID: LCS-69518 | SampType: LCS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69518 | | RunNo: 90310 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3222137 | | Units: %Rec | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 70 | 130 | | | |

Qualifiers:

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



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: Lucid Energy

Work Order Number: 2208816

RcptNo: 1

Received By: Juan Rojas

8/12/2022 7:20:00 AM

Completed By: Tracy Casarrubias

8/12/2022 9:04:33 AM

Reviewed By: DAD 8/12/22

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 $>0^{\circ}\text{C}$ 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: ya 8/12/22

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 $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 0.5 | Good | Yes | | | |

Client: Michael Gant - Lucid Energy Group - Delaware

Mailing Address: 3100 McKisson St. #800

Received by OCD: 9/21/2022 2:44:22 PM

Phone #: 314-330-7876

email or Fax#:mgant@lucid-energy.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush 5 Day

Project Name:

Graham Lateral 8" Pipeline

Project #:

03A2013008

Project Manager:
Ben Belill

Sampler: LC

On Ice: ☒ Yes ☐ No

of Coolers:

Cooler Temp (including CF): $0.5 - 0 = 0.5$ Container
Type and #Preservative
Type

HEAL No.
92089116

| Date | Time | Matrix | Sample Name |
|------|------|--------|-------------|
|------|------|--------|-------------|

| | | | |
|---------|------|---|-------------|
| 8/10/22 | 1205 | S | PH03 @ 0.5' |
|---------|------|---|-------------|

| | | | |
|---------|------|---|-----------|
| 8/10/22 | 1220 | S | PH03 @ 4' |
|---------|------|---|-----------|

| | | |
|-------|-------|------------------|
| Date: | Time: | Relinquished by: |
|-------|-------|------------------|

| | | |
|---------|-------|-----------|
| 8/11/22 | 19.10 | Liz Cheli |
|---------|-------|-----------|

Liz Cheli

| | | | |
|--------------|------|------|------|
| Received by: | Via: | Date | Time |
|--------------|------|------|------|

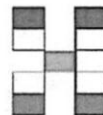
Answer: 8/11/22 17

| | | | |
|--------------|------|------|------|
| Received by: | Via: | Date | Time |
|--------------|------|------|------|

Acronyctus chalybeatus

| |
|----------|
| Remarks: |
|----------|

Company Code: 860 Property Code: 195225010 AFE: 300091
direct bill to Lucid Energy; email client,
jhernandez@ensolum.com/bbelill@ensolum.com for reporting receipts



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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



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

August 18, 2022

Ben Belill
Lucid Energy
201 South 4th St.
Artesia, NM 88210
TEL: (575) 513-8988
FAX:

RE: Graham Lateral 8 Inch Pipeline

OrderNo.: 2208817

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2208817

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: FS01@4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 9:05:00 AM

Lab ID: 2208817-001

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | 28 | 14 | | mg/Kg | 1 | 8/15/2022 7:58:08 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 8/15/2022 7:58:08 PM |
| Surr: DNOP | 97.7 | 21-129 | | %Rec | 1 | 8/15/2022 7:58:08 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 8/16/2022 12:31:44 PM |
| Surr: BFB | 81.0 | 37.7-212 | | %Rec | 1 | 8/16/2022 12:31:44 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 12:31:44 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 12:31:44 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 12:31:44 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 8/16/2022 12:31:44 PM |
| Surr: 4-Bromofluorobenzene | 103 | 70-130 | | %Rec | 1 | 8/16/2022 12:31:44 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 240 | 59 | | mg/Kg | 20 | 8/16/2022 1:20:39 AM |

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

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

Page 1 of 13

Analytical Report

Lab Order 2208817

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: FS02@4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 9:10:00 AM

Lab ID: 2208817-002

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 8/15/2022 8:13:51 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 8/15/2022 8:13:51 PM |
| Surr: DNOP | 98.9 | 21-129 | | %Rec | 1 | 8/15/2022 8:13:51 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/16/2022 1:33:05 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: BRM |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/16/2022 12:49:51 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/16/2022 12:49:51 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/16/2022 12:49:51 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 8/16/2022 12:49:51 PM |
| Surr: 1,2-Dichloroethane-d4 | 105 | 70-130 | | %Rec | 1 | 8/16/2022 12:49:51 PM |
| Surr: 4-Bromofluorobenzene | 104 | 70-130 | | %Rec | 1 | 8/16/2022 12:49:51 PM |
| Surr: Dibromofluoromethane | 124 | 70-130 | | %Rec | 1 | 8/16/2022 12:49:51 PM |
| Surr: Toluene-d8 | 98.9 | 70-130 | | %Rec | 1 | 8/16/2022 12:49:51 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: BRM |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 8/16/2022 12:49:51 PM |
| Surr: BFB | 115 | 70-130 | | %Rec | 1 | 8/16/2022 12:49:51 PM |

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

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

Page 2 of 13

Analytical Report

Lab Order 2208817

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: FS03@1'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 9:45:00 AM

Lab ID: 2208817-003

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 8/15/2022 8:29:44 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 8/15/2022 8:29:44 PM |
| Surr: DNOP | 97.6 | 21-129 | | %Rec | 1 | 8/15/2022 8:29:44 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 160 | 60 | | mg/Kg | 20 | 8/16/2022 1:45:30 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: BRM |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/16/2022 1:18:40 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/16/2022 1:18:40 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/16/2022 1:18:40 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 8/16/2022 1:18:40 PM |
| Surr: 1,2-Dichloroethane-d4 | 109 | 70-130 | | %Rec | 1 | 8/16/2022 1:18:40 PM |
| Surr: 4-Bromofluorobenzene | 106 | 70-130 | | %Rec | 1 | 8/16/2022 1:18:40 PM |
| Surr: Dibromofluoromethane | 119 | 70-130 | | %Rec | 1 | 8/16/2022 1:18:40 PM |
| Surr: Toluene-d8 | 96.5 | 70-130 | | %Rec | 1 | 8/16/2022 1:18:40 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: BRM |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/16/2022 1:18:40 PM |
| Surr: BFB | 114 | 70-130 | | %Rec | 1 | 8/16/2022 1:18:40 PM |

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

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

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Analytical Report

Lab Order 2208817

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SW01@0-4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 9:20:00 AM

Lab ID: 2208817-004

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 8/15/2022 8:45:10 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 8/15/2022 8:45:10 PM |
| Surr: DNOP | 99.5 | 21-129 | | %Rec | 1 | 8/15/2022 8:45:10 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 140 | 60 | | mg/Kg | 20 | 8/16/2022 1:57:55 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: BRM |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 1:47:27 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 1:47:27 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 1:47:27 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 8/16/2022 1:47:27 PM |
| Surr: 1,2-Dichloroethane-d4 | 105 | 70-130 | | %Rec | 1 | 8/16/2022 1:47:27 PM |
| Surr: 4-Bromofluorobenzene | 107 | 70-130 | | %Rec | 1 | 8/16/2022 1:47:27 PM |
| Surr: Dibromofluoromethane | 125 | 70-130 | | %Rec | 1 | 8/16/2022 1:47:27 PM |
| Surr: Toluene-d8 | 99.1 | 70-130 | | %Rec | 1 | 8/16/2022 1:47:27 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: BRM |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 8/16/2022 1:47:27 PM |
| Surr: BFB | 120 | 70-130 | | %Rec | 1 | 8/16/2022 1:47:27 PM |

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

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

Analytical Report

Lab Order 2208817

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SW02@0-4'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 10:00:00 AM

Lab ID: 2208817-005

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 8/15/2022 9:00:37 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 8/15/2022 9:00:37 PM |
| Surr: DNOP | 97.2 | 21-129 | | %Rec | 1 | 8/15/2022 9:00:37 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 120 | 60 | | mg/Kg | 20 | 8/16/2022 2:10:20 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: BRM |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 2:16:10 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 8/16/2022 2:16:10 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 8/16/2022 2:16:10 PM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 8/16/2022 2:16:10 PM |
| Surr: 1,2-Dichloroethane-d4 | 104 | 70-130 | | %Rec | 1 | 8/16/2022 2:16:10 PM |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %Rec | 1 | 8/16/2022 2:16:10 PM |
| Surr: Dibromofluoromethane | 120 | 70-130 | | %Rec | 1 | 8/16/2022 2:16:10 PM |
| Surr: Toluene-d8 | 99.4 | 70-130 | | %Rec | 1 | 8/16/2022 2:16:10 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: BRM |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 8/16/2022 2:16:10 PM |
| Surr: BFB | 115 | 70-130 | | %Rec | 1 | 8/16/2022 2:16:10 PM |

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

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

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Analytical Report

Lab Order 2208817

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SW03@0-1'

Project: Graham Lateral 8 Inch Pipeline

Collection Date: 8/10/2022 10:45:00 AM

Lab ID: 2208817-006

Matrix: SOIL

Received Date: 8/12/2022 7:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|--|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 8/15/2022 9:16:14 PM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 8/15/2022 9:16:14 PM |
| Surr: DNOP | 99.0 | 21-129 | | %Rec | 1 | 8/15/2022 9:16:14 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | 300 | 60 | | mg/Kg | 20 | 8/16/2022 2:22:45 AM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | | Analyst: BRM |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2022 2:44:55 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 2:44:55 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 8/16/2022 2:44:55 PM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 8/16/2022 2:44:55 PM |
| Surr: 1,2-Dichloroethane-d4 | 106 | 70-130 | | %Rec | 1 | 8/16/2022 2:44:55 PM |
| Surr: 4-Bromofluorobenzene | 106 | 70-130 | | %Rec | 1 | 8/16/2022 2:44:55 PM |
| Surr: Dibromofluoromethane | 122 | 70-130 | | %Rec | 1 | 8/16/2022 2:44:55 PM |
| Surr: Toluene-d8 | 101 | 70-130 | | %Rec | 1 | 8/16/2022 2:44:55 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | | Analyst: BRM |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 8/16/2022 2:44:55 PM |
| Surr: BFB | 120 | 70-130 | | %Rec | 1 | 8/16/2022 2:44:55 PM |

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

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208817

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69517 | SampType: mblk | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69517 | RunNo: 90295 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220797 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: LCS-69517 | SampType: lcs | TestCode: EPA Method 300.0: Anions | | | | | | | | |
|-----------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69517 | RunNo: 90295 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3220798 | Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.4 | 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 Quantitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208817

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: MB-69506 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|--------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221135 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 | 9.3 | | 10.00 | | 93.0 | 21 | 129 | | | |

| Sample ID: LCS-69506 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69506 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/15/2022 | SeqNo: 3221136 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 15 | 50.00 | 0 | 102 | 64.4 | 127 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.6 | 21 | 129 | | | |

| Sample ID: MB-69521 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221703 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.8 | | 10.00 | | 87.7 | 21 | 129 | | | |

| Sample ID: LCS-69521 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69521 | RunNo: 90276 | | | | | | | | |
| Prep Date: 8/16/2022 | Analysis Date: 8/16/2022 | SeqNo: 3221704 Units: %Rec | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.6 | | 5.000 | | 72.9 | 21 | 129 | | | |

Qualifiers:

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208817

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221186 | | 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 | 104 | 72.3 | 137 | | | |
| Surr: BFB | 2200 | | 1000 | | 219 | 37.7 | 212 | | | S |

| Sample ID: mb-69502 | SampType: MBLK | | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | RunNo: 90302 | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | SeqNo: 3221188 | | 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 | | | |

Qualifiers:

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208817

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: lcs-69502 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221187 | | 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 | 90.1 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 92.5 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 93.8 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 94.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.5 | 70 | 130 | | | |

| Sample ID: mb-69502 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-------|-----------|--|------|---------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69502 | | | RunNo: 90302 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3221192 | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 70 | 130 | | | |

| Sample ID: mb-69518 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69518 | | | RunNo: 90310 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3222136 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 105 | 70 | 130 | | | |

| Sample ID: LCS-69518 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|-----------------------------|---------------------------------|-----|-----------|--|------|--------------------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69518 | | | RunNo: 90310 | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | | | SeqNo: 3222137 | | Units: %Rec | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 70 | 130 | | | |

Qualifiers:

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208817

18-Aug-22

Client: Lucid Energy
Project: Graham Lateral 8 Inch Pipeline

| Sample ID: 2208817-003ams | SampType: MS4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|----------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: FS03@1' | Batch ID: 69509 | RunNo: 90315 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3222178 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.93 | 0.024 | 0.9681 | 0 | 96.1 | 75.8 | 123 | | | |
| Toluene | 0.90 | 0.048 | 0.9681 | 0 | 92.9 | 68.3 | 130 | | | |
| Ethylbenzene | 0.89 | 0.048 | 0.9681 | 0 | 92.1 | 76.6 | 132 | | | |
| Xylenes, Total | 2.8 | 0.097 | 2.904 | 0 | 97.1 | 74.7 | 132 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.53 | | 0.4840 | | 110 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.4840 | | 104 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.59 | | 0.4840 | | 122 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.48 | | 0.4840 | | 99.2 | 70 | 130 | | | |

| Sample ID: 2208817-003amsd | SampType: MSD4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: FS03@1' | Batch ID: 69509 | RunNo: 90315 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3222179 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.94 | 0.024 | 0.9756 | 0 | 96.8 | 75.8 | 123 | 1.54 | 20 | |
| Toluene | 0.87 | 0.049 | 0.9756 | 0 | 89.6 | 68.3 | 130 | 2.83 | 20 | |
| Ethylbenzene | 0.88 | 0.049 | 0.9756 | 0 | 90.1 | 76.6 | 132 | 1.44 | 20 | |
| Xylenes, Total | 2.8 | 0.098 | 2.927 | 0 | 94.5 | 74.7 | 132 | 1.93 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 0.53 | | 0.4878 | | 108 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 0.49 | | 0.4878 | | 101 | 70 | 130 | 0 | 0 | |
| Surr: Dibromofluoromethane | 0.59 | | 0.4878 | | 120 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 0.47 | | 0.4878 | | 96.9 | 70 | 130 | 0 | 0 | |

| Sample ID: Ics-69509 | SampType: LCS4 | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: BatchQC | Batch ID: 69509 | RunNo: 90315 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3222198 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.96 | 0.025 | 1.000 | 0 | 96.1 | 80 | 120 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 93.5 | 80 | 120 | | | |
| Ethylbenzene | 0.91 | 0.050 | 1.000 | 0 | 90.6 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.9 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.53 | | 0.5000 | | 106 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.53 | | 0.5000 | | 107 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.60 | | 0.5000 | | 120 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 99.2 | 70 | 130 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208817

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: mb-69509 | SampType: MBLK | TestCode: EPA Method 8260B: Volatiles Short List | | | | | | | | |
|-----------------------------|---------------------------------|---|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69509 | RunNo: 90315 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3222199 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: 1,2-Dichloroethane-d4 | 0.52 | | 0.5000 | | 104 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.52 | | 0.5000 | | 103 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.60 | | 0.5000 | | 120 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 99.7 | 70 | 130 | | | |

Qualifiers:

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

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2208817

18-Aug-22

Client: Lucid Energy**Project:** Graham Lateral 8 Inch Pipeline

| Sample ID: 2208817-002ams | SampType: MS | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: FS02@4' | Batch ID: 69509 | RunNo: 90315 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3222203 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 24.95 | 0 | 95.3 | 65.9 | 123 | | | |
| Surr: BFB | 530 | | 499.0 | | 105 | 70 | 130 | | | |

| Sample ID: 2208817-002amsd | SampType: MSD | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: FS02@4' | Batch ID: 69509 | RunNo: 90315 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3222204 Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 4.9 | 24.65 | 0 | 99.4 | 65.9 | 123 | 3.00 | 20 | |
| Surr: BFB | 540 | | 493.1 | | 110 | 70 | 130 | 0 | 0 | |

| Sample ID: lcs-69509 | SampType: LCS | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 69509 | RunNo: 90315 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3222224 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 | 95.1 | 70 | 130 | | | |
| Surr: BFB | 580 | | 500.0 | | 115 | 70 | 130 | | | |

| Sample ID: mb-69509 | SampType: MBLK | TestCode: EPA Method 8015D Mod: Gasoline Range | | | | | | | | |
|-------------------------------|--------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 69509 | RunNo: 90315 | | | | | | | | |
| Prep Date: 8/15/2022 | Analysis Date: 8/16/2022 | SeqNo: 3222225 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 | 590 | | 500.0 | | 118 | 70 | 130 | | | |

Qualifiers:

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

B Analyte detected in the associated Method Blank
E Estimated value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: Lucid Energy

Work Order Number: 2208817

RcptNo: 1

Received By: Juan Rojas

8/12/2022 7:20:00 AM

Completed By: Tracy Casarrubias

8/12/2022 9:07:10 AM

Reviewed By: DAD 8/12/22

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: jr 8/12/22

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 $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 0.5 | Good | Yes | | | |

Client: Michael Gant - Lucid Energy Group - Delaware

Mailing Address: 3100 McKisson St #800

Received by OCD: 9/21/2022 2:44:22 PM
Dallas, TX 75201

Phone #: 314-330-7876

email or Fax#:mgant@lucid-energy.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 5 Day

| |
|---------------|
| Project Name: |
|---------------|

Graham Lateral 8" Pipeline

Project #:

03A2013008

Project Manager:

Ben Belill

Sampler: LC

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 0.5-0.20.5

Container
Type and #Preservative
Type

HEAL No.
220987

| Date | Time | Matrix | Sample Name |
|------|------|--------|-------------|
|------|------|--------|-------------|

| | | | |
|---------|-----|---|-----------|
| 8/10/22 | 905 | S | FS01 @ 4' |
|---------|-----|---|-----------|

| | | | |
|---------|-----|---|-----------|
| 8/10/22 | 910 | S | FS02 @ 4' |
|---------|-----|---|-----------|

| | | | |
|---------|-----|---|-----------|
| 8/10/22 | 945 | S | FS03 @ 1' |
|---------|-----|---|-----------|

| | | | |
|---------|-----|---|------------|
| 8/10/22 | 920 | S | SW01 @ 0-4 |
|---------|-----|---|------------|

| | | | |
|---------|------|---|------------|
| 8/10/22 | 1000 | S | SW02 @ 0-4 |
|---------|------|---|------------|

| | | | |
|---------|------|---|------------|
| 8/10/22 | 1045 | S | SW03 @ 0-1 |
|---------|------|---|------------|

| | | |
|-------|-------|------------------|
| Date: | Time: | Relinquished by: |
|-------|-------|------------------|

| | |
|---------|-----------|
| 8/11/22 | Liz Cheli |
|---------|-----------|

| | | |
|-------|-------|------------------|
| Date: | Time: | Relinquished by: |
|-------|-------|------------------|

| | | | |
|--------------|------|------|------|
| Received by: | Via: | Date | Time |
|--------------|------|------|------|

Amurto 8/11/99 121

| | | | |
|--------------|------|------|------|
| Received by: | Via: | Date | Time |
|--------------|------|------|------|

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

| |
|---|
| Remarks: |
| Company Code: 860 Property Code: 195225010 AFE: 300091 direct bill to Lucid Energy; email client, jhernandez@ensolum.com/bbelill@ensolum.com for reporting receipts |

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.



APPENDIX G

Approved Extension Request

Joseph Hernandez

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Friday, August 19, 2022 10:03 AM
To: Joseph Hernandez; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD; Bratcher, Mike, EMNRD
Cc: Gant, Michael; Ben Belill
Subject: RE: [EXTERNAL] Extension Request - Targa Resources - Graham Lateral 8-inch Pipeline Release - nAPP2215251908

[**EXTERNAL EMAIL**]

Hello Joseph

Your request for an extension to **September 22nd, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Thanks
Jennifer Nobui

From: Joseph Hernandez <jhernandez@ensolum.com>
Sent: Friday, August 19, 2022 6:54 AM
To: Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: Gant, Michael <mgant@targaresources.com>; Ben Belill <bbelill@ensolum.com>
Subject: [EXTERNAL] Extension Request - Targa Resources - Graham Lateral 8-inch Pipeline Release - nAPP2215251908

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

All,

Targa Resources (Targa) is requesting an extension to the current deadline for a closure report required in 19.15.29.12.B.(1) NMAC at the Graham Lateral 8-inch Pipeline Release. A release of natural gas and pipeline liquids was discovered on May 25, 2022 and was assigned Incident Number nAPP2215251908. Due to the release impacting areas off pad, a Right of Entry (ROE) Request was submitted to the State Land Office (SLO) on July 12, 2022, and subsequently approved on July 27, 2022. Final confirmation laboratory results were received on August 17, 2022 and indicate remediation is complete. To provide enough time for a completion of a closure report, Targa requests an extension of the deadline to **September 22, 2022**.

It should be noted, the original responsible party for the release was Lucid Energy Delaware, LLC (Lucid OGRID # 372422). Lucid and the Site have been acquired by Targa following the release. As a result, remedial actions were initiated by Lucid and completed by Targa.

Thank you,



Joseph S. Hernandez

Senior Geologist

281-702-2329

Ensolum, LLC

in f 



APPENDIX H

Signed C141 Closure Request

| | |
|----------------|--|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Michael Gant Title: Environmental Compliance Manager

Signature: *MGant* Date: 9/21/2022

email: mgant@targaresources.com Telephone: 3143307876

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: *Jennifer Nobui* Date: 09/26/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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 144450

CONDITIONS

| | |
|--|---|
| Operator: LUCID ENERGY DELAWARE, LLC 201 S. Fourth Street Artesia, NM 88210 | OGRID: 372422 |
| | Action Number: 144450 |
| | Action Type: [C-141] Release Corrective Action (C-141) |

CONDITIONS

| | | |
|------------|--------------------------|----------------|
| Created By | Condition | Condition Date |
| jnobui | Closure Report Approved. | 9/26/2022 |